



Parts Manual



H6H

Hydraulic Winch for Caterpillar Dozers

A Product of

Allied Systems
COMPANY

Sherwood, OR USA

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

Safety Precautions

**Read, understand and observe the Safety 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 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



WARNING

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.

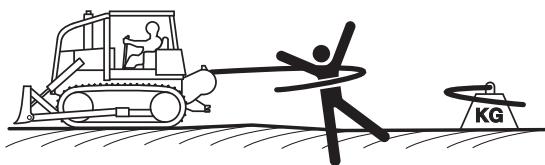
Training

- 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

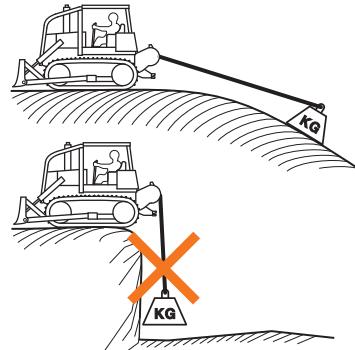
- Stay in the operator's seat when operating the winch.
- Do not stand on the vehicle when operating the winch.
- Avoid winch operation near people or other machines.
- Never stand nor permit others to stand in the bight (loop) of a wire rope.

- 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 tractor 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 tractor and winch. Manual override of high temperature shut-off will cause damage to tractor and winch.
- This winch is neither intended, designed, nor rated for any application involved in the lifting or moving of personnel.
- Do not use the winch as an anchor for a double or two-part line.
- Do not pull the hook through the throat or over the drum, which will cause damage.
- When the winch is not in use, make sure the control lever is in **BRAKE-ON** position and the winch brake is applied.
- Do not use winch as a hoist. Tractor and skidder mounted winches are designed for towing.



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 tractor with the load to prevent side loading the winch, and to maintain even spooling of the wire rope.
- If applying tension to the wire rope manually during spooling:
 - » ensure that the operator is winching in slowly,
 - » keep your hands and clothing well clear of any rollers or the winch drum,
 - » do not maintain tension by letting the wire rope to slip through your hands,
 - » use a hand-over-hand technique to maintain tension.

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.



DANGER

Injection hazard.

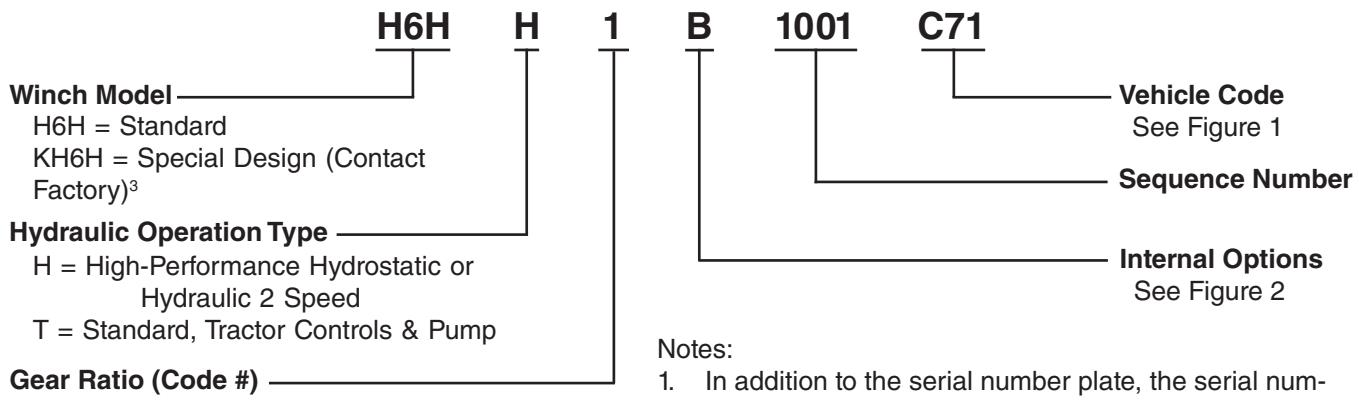
Infection and gangrene will result when hydraulic oil penetrates the skin. See a doctor immediately to prevent loss of limb or death.

Use a piece of cardboard to check for hydraulic leaks.



Unit Identification

Allied Winch S/N Nameplate Data For Tractor Mountings



Notes:

1. In addition to the serial number plate, the serial number is stamped on the top left-hand side of the frame.
2. Circled numbers in Figure 1 indicate possible gear ratios.
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.

VEHICLE CODE	CATERPILLAR MODEL	AVAILABLE GEAR RATIOS
C71	DR Series II, III, D6T	⑥
C712	D6/D6XE BUILD 20A	⑥
C805	D6K2 T4f	②③
C81	D6N	①
C811	D6N ¹	①
C812	D5 BUILD 17 A/B	①
C963	963D Track Loader	①

¹ Tractor serial numbers with prefixes GHS, MLW & LJR use vehicle code C811.

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

Circled numbers in Figure 1 indicate possible gear ratios.

INTERNAL OPTION	FREESPOOL	BRAKE-OFF	OVERWIND	2-SPEED CONTROL	HI-SPEED DEFAULT
B	X	X	X		X
D	X	X	X	X	
E	X		X		
U	X	X			
BN		X	X		X
DN		X	X	X	
EN			X		
DE	X		X	X	
DU	X	X		X	
DL	X	X	X	X	X

Figure 2 - Internal Options

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

1. Determine the function and application of the part required. Turn to the illustrated index page immediately behind the front cover, and select the most appropriate area.
2. Use the table of contents at the beginning of each chapter to determine the assembly which would normally contain the part required. Proceed then to locate the part on the assembly breakdown page.

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

1. Determine the assembly the required part is used on. Turn to the master index (which immediately follows the illustrated index).
2. Locate the assembly on which the required part is used, and turn to the page indicated for that assembly. Proceed to locate the part on the assembly breakdown page.

When the part number is known:

Use the numerical index to find the part number. Turn to the page listed and locate the part as indicated by the reference number.

General:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting the correct parts.

Keys are used to show effective serial numbers for two or more similar assemblies, LH and RH assembly parts, etc. Select the appropriate key, "A," "B," "C," or "D" and the corresponding quantity column to find the required parts.

Indent dots are used to indicate assemblies and sub-parts of assemblies. No dot indicates the major assembly. Part descriptions which are indented with dots are sub-parts of the major assembly shown above.

Quantities shown are for one assembly. Note that when two assemblies are shown, but the quantity of the sub-parts is indicated as three, this means three per assembly - for a total of six. AR means As Required, and NSS indicates Not Sold Separately.

Serial numbers are shown to allow for the most current parts information to be incorporated into the parts manual. See page 0-6 for serial number information.

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
P	Pressure
T	Tank
BO	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

The main consideration while selecting hydraulic fluid is the estimated oil temperature extremes that will be experienced during service so the most suitable temperature-viscosity characteristics are obtained.

Recommended Oils* - General Conditions			
Manufactuer	Oil Type	Ambient Temperature Range	
		°F	°C
ExxonMobil	Mobil Fluid 424 (Factory fill)	-13 to 104	-25 to 40
Chevron	1000 THF	-13 to 104	-25 to 40
Caterpillar	Multipurpose Tractor Oil (MTO)	-13 to 104	-25 to 40

Recommended Oils* - Low Temperature Conditions			
Manufactuer	Oil Type	Ambient Temperature Range	
		°F	°C
ExxonMobil	Mobil Fluid LT	-40 to 86	-40 to 30
Chevron	THF W	-40 to 86	-40 to 30

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

For winches using tractor-supplied hydraulics for winch operation, the recommended oil is used only in the winch gear case.

Figure 4 - Oil Selection Chart

Factory fill is TO-4, which has an ISO Viscosity Grade 46 to 68.

The hydraulic circuit and winch gear housing have different fluids.

Note: Some hydraulic system oils are not recommended for use inside the winch case.

	Hydraulic System (Pump)	Winch Case (Gear Train)
Caterpillar	Use Tractor Fluid	TO-4
Chevron	Use Tractor Fluid	Drive Train Fluids HD
Exxon-Mobil	Use Tractor Fluid	Mobil Trans HD Series

Figure 5 - Recommended Oil List

Oil Capacity

The oil capacity for H6H winch is 4 gallons (15 liters).

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.

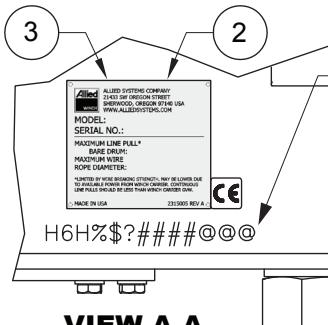
Phone: 503-625-2560
Fax: 503-625-5132
E-mail: parts@alliedsystems.com

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

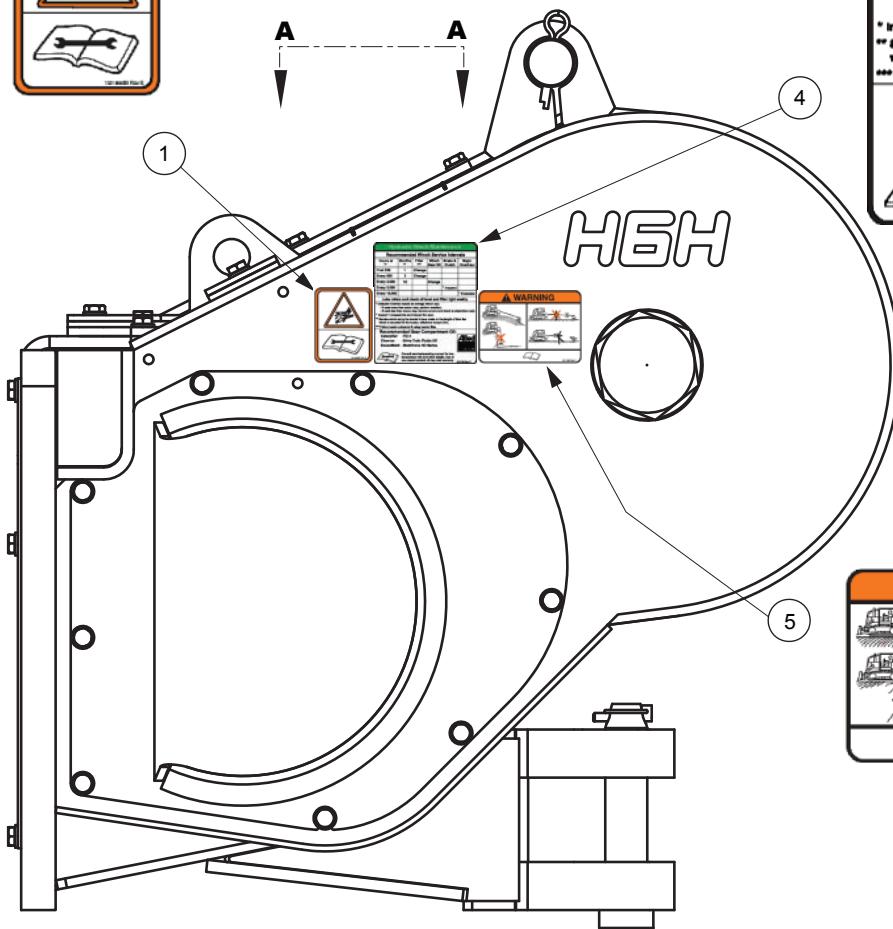
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Nameplate & Decals

All Models



STAMP NAMEPLATE AND FRAME AS SHOWN
% = H (HI-PERFORMANCE) OR T (STANDARD)
\$ = GEAR RATIO CODE
? = INTERNAL OPTIONS
= SEQUENCE NUMBER
@@@ = VEHICLE CODE
SEE DRAWING 231271



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

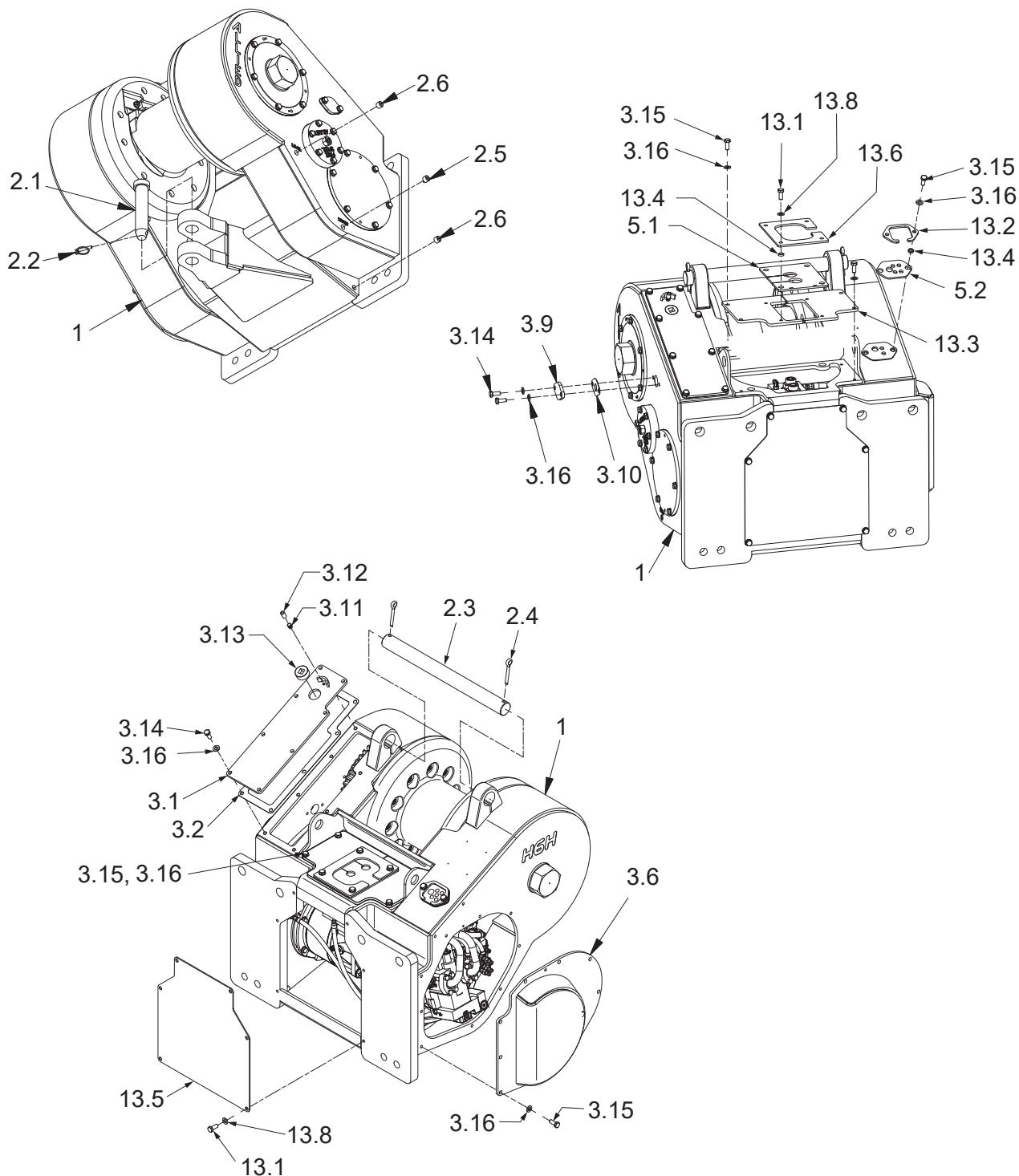
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Section 1

Frames/Covers/Mounting Parts

Frame/Covers

Caterpillar D6T (C71), D6/D6XE BUILD 20A (C712), D6N (C81/C811), D5 BUILD 17 A/B(C812)
Page 1 of 2



Frame/Covers

Caterpillar D6T (C71), D6/D6XE BUILD 20A (C712), D6N (C81/C811), D5 BUILD 17 A/B(C812)
Page 2 of 2

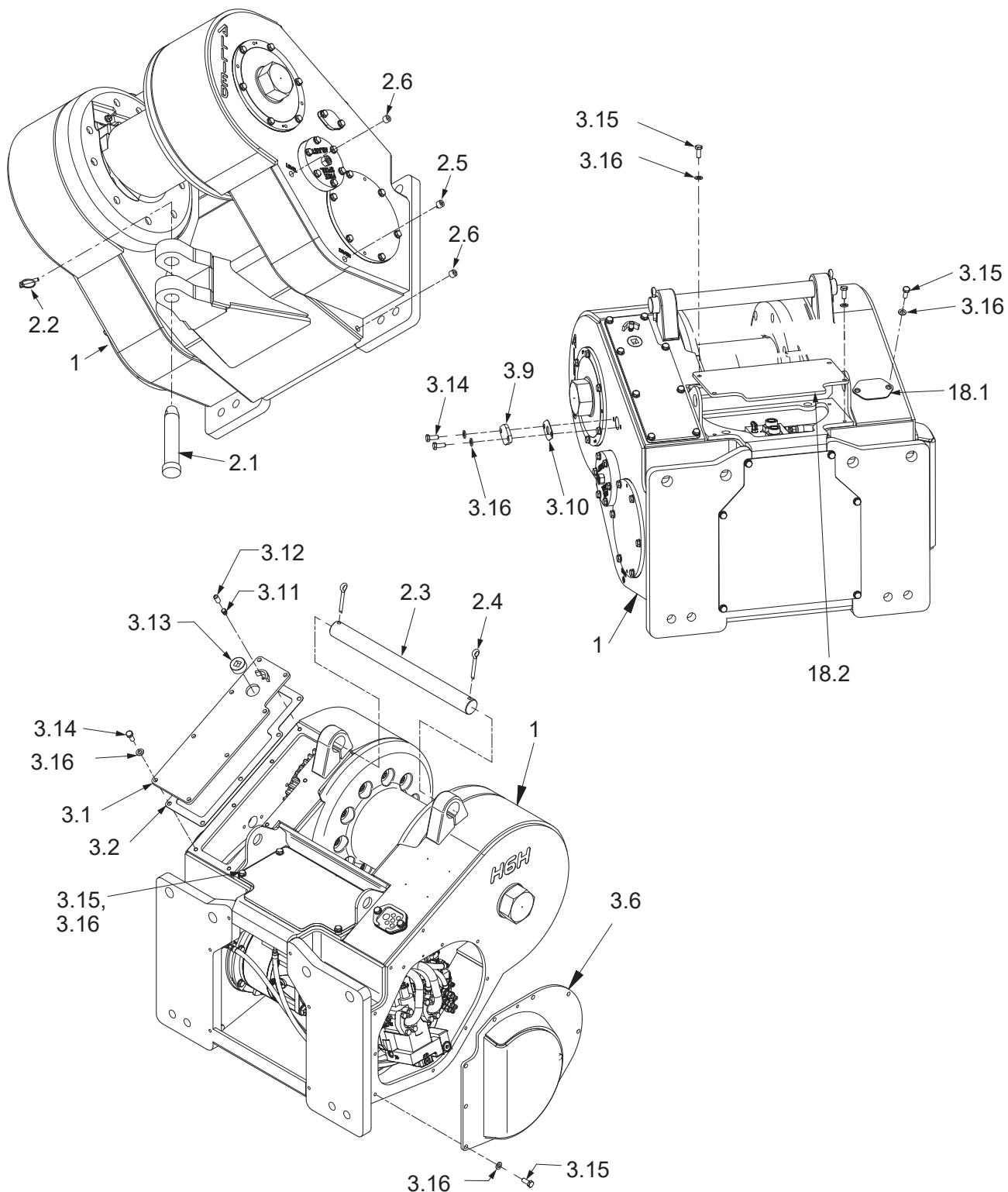
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	-----	1	Frame, H6H	3.13	15319W	1	Fitting
2.1	95959W	1	Pin, Drawbar	3.14	2312486	10	Capscrew
2.2	2303221W	1	Pin, Retaining	3.15	293645W	15	Capscrew
2.3	2312580	1	Rod, Tie	3.16	296422W	25	Washer
2.4	15272W	2	Pin	5.1	2312009	1	Seal, Top
2.5	15290W	1	Fitting	5.2	*a 2312208	1	Gasket, Hose Seal
2.6	15315W	2	Fitting	5.2	*b 2313831	1	Gasket, Hose Seal
3.1	2312048	1	Cover, Top RH	13.1	293645W	10	Capscrew
3.2	2312045	1	Gasket, Top RH	13.2	2312117	1	Cover
3.6	2316162	1	Cover, LH	13.3	2313380	2	Cover, Top
3.9	151589W	1	Cover, Freespool	13.4	2312119	6	Spacer
3.10	151646W	1	Gasket, Freespool	13.5	2312046	1	Cover, Front
3.11	21420W	1	Plug, Breather	13.6	2312006	1	Clamp, Top
3.12	2300962W	1	Cap, Breather	13.8	296422W	10	Washer

*a Used on C71, C81, C811, C812

*b Used on C712

Frame/Covers

Caterpillar 963D Track Loader (C963), D6K2 T4f (C805)
Page 1 of 2



Frame/Covers

Caterpillar 963D Track Loader (C963), D6K2 T4f (C805)

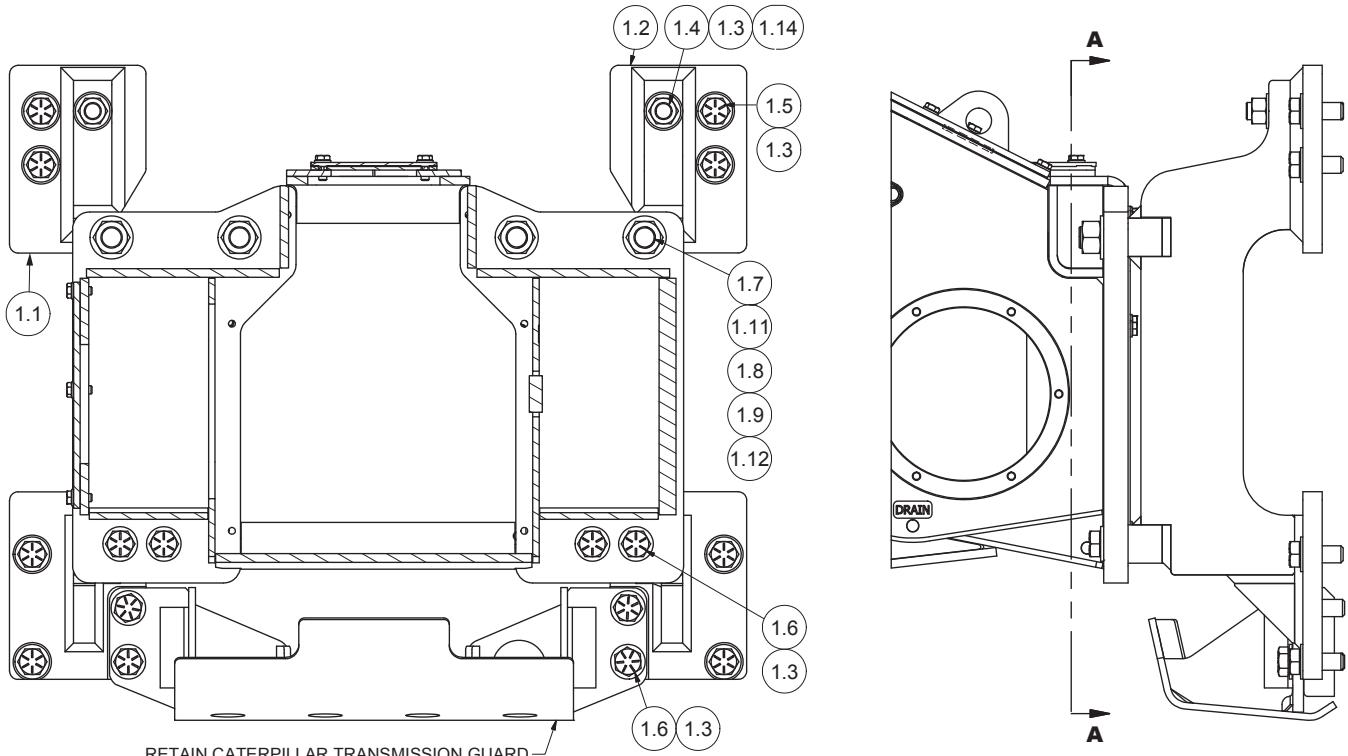
Page 2 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	-----	1	Frame, H6H	3.9	151589W	1	Cover, Freespool
2.1	95959W	1	Pin, Drawbar	3.10	151646W	1	Gasket, Freespool
2.2	2303221W	1	Pin, Retaining	3.11	21420W	1	Plug, Breather
2.3	2312580	1	Rod, Tie	3.12	2300962W	1	Cap, Breather
2.4	15272W	2	Pin	3.13	15319W	1	Fitting
2.5	15290W	1	Fitting	3.14	2312486	10	Capscrew
2.6	15315W	2	Fitting	3.15	293645W	15	Capscrew
3.1	2312048	1	Cover, Top RH	3.16	296422W	25	Washer
3.2	2312045	1	Gasket, Top RH	18.1	2312850	1	Cover, Top LH
3.6	2316162	1	Cover, LH	18.2	2312849	1	Cover, Top

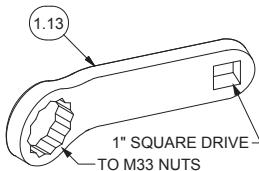
Mounting Parts

Caterpillar D6T (C71)

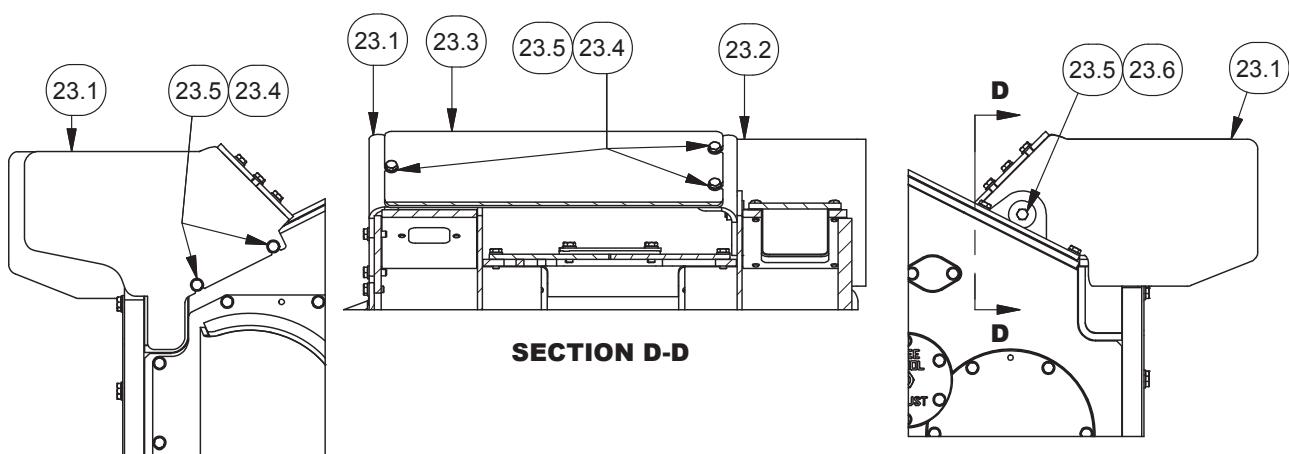
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SECTION A-A



**TORQUE WRENCH
EXTENDER**



SECTION D-D

Mounting Parts

Caterpillar D6T (C71)

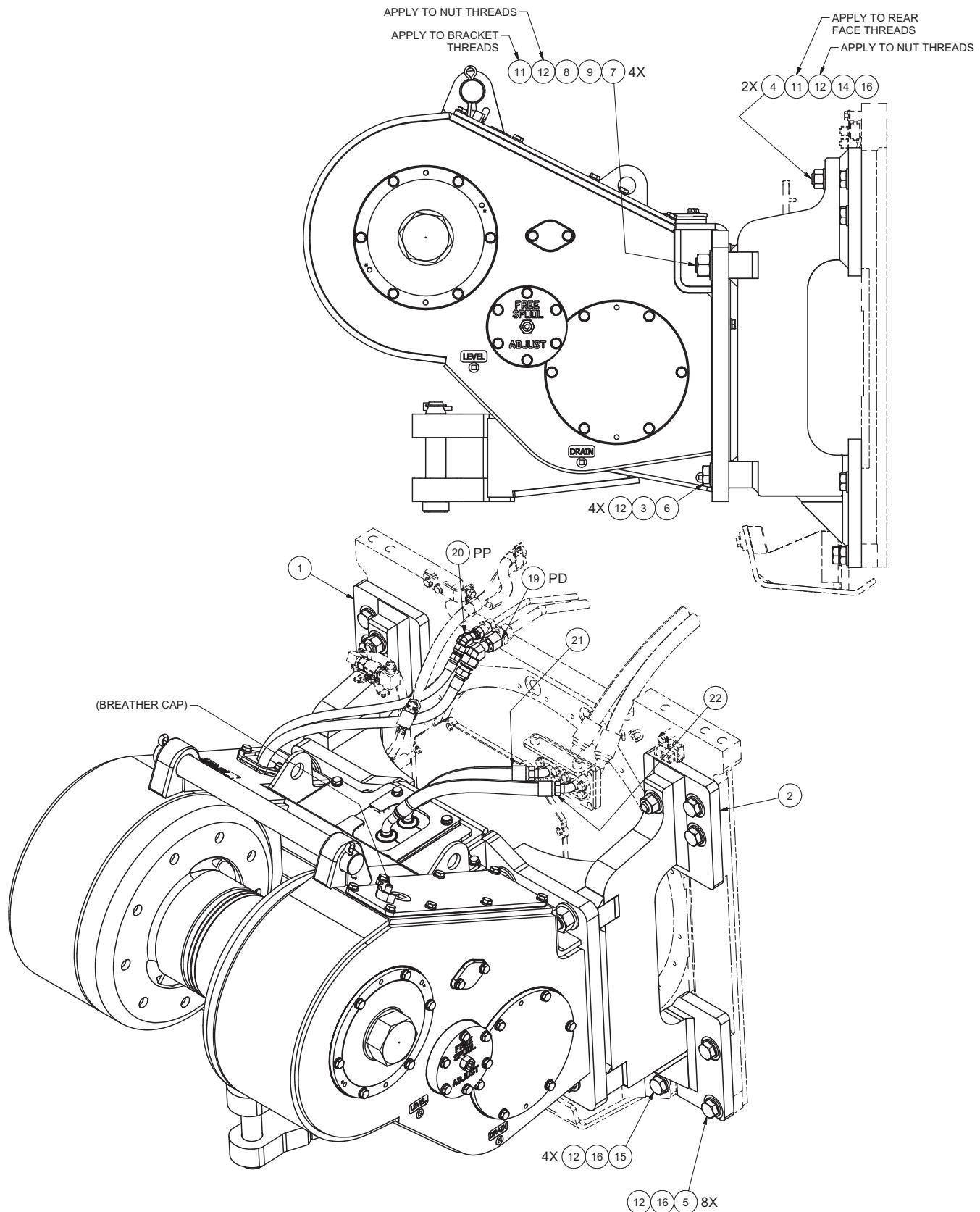
Page 2 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	2314553	1	Bracket, LH Mounting	1.12	*b	318702W	10 ML Thread Lock, Med. Strength
1.2	2314554	1	Bracket, RH Mounting	1.13		2310958	1 Wrench, Torque Extension
1.3	221780W	18	Hard Washer	1.14		221721W	2 Hex Nut
1.4	259543W	2	Stud	23.1		2314633	1 Guard, LH
1.5	221690W	8	Capscrew	23.2		2314635	1 Guard, RH
1.6	R13806324	8	Capscrew	23.3		2314636	1 Plate - Guard, Center
1.7	2306421W	4	Stud	23.4		296422W	5 Hard Washer
1.8	225851	4	Hard Washer	23.5		293646W	6 Capscrew
1.9	221725W	4	Hex Nut	23.6		2305715W	1 Washer
1.11	*a	1	Loctite Kit				

*a Apply to coarse thread.

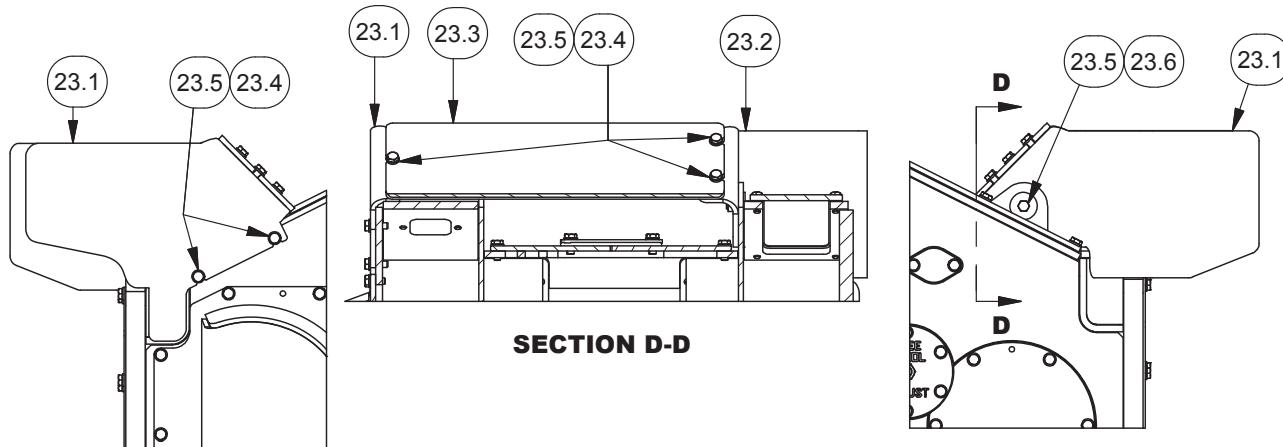
*b Apply to fine thread.

Mounting Parts
Caterpillar D6/D6XE BUILD 20A (C712)
Page 1 of 2



Mounting Parts

Caterpillar D6/D6XE BUILD 20A (C712)
Page 2 of 2



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1	2314553	1	Bracket, LH Mounting	16	296434W	14	Washer	
2	2314554	1	Bracket, RH Mounting	19	2311485	1	Fitting	
3	221780W	4	Washer	20	2315121	1	Fitting	
4	2315880	2	Stud	21	*a	2316945	1	Hose Assy
5	225065W	8	Capscrew	22	*a	2316946	1	Hose Assy
6	R13806324	4	Capscrew	23.1	2314633	1	Guard, LH	
7	2306421W	4	Stud	23.2	2314635	1	Guard, RH	
8	225851	4	Washer	23.3	2314636	1	Plate - Guard, Center	
9	221725W	4	Hex Nut	23.4	296422W	5	Hard Washer	
11	230064W	1	Kit, Primer	23.5	293646W	6	Capscrew	
12	318702W	10 ML	Thread Lock, Med.	23.6	2305715W	1	Washer	
13	2310958	1	Wrench, Torque Extension	*a Included in Hose Kit 2317931				
14	292660W	2	Nut					
15	293728W	4	Capscrew					

Mounting Parts
Caterpillar D6K2 T4f (C805)
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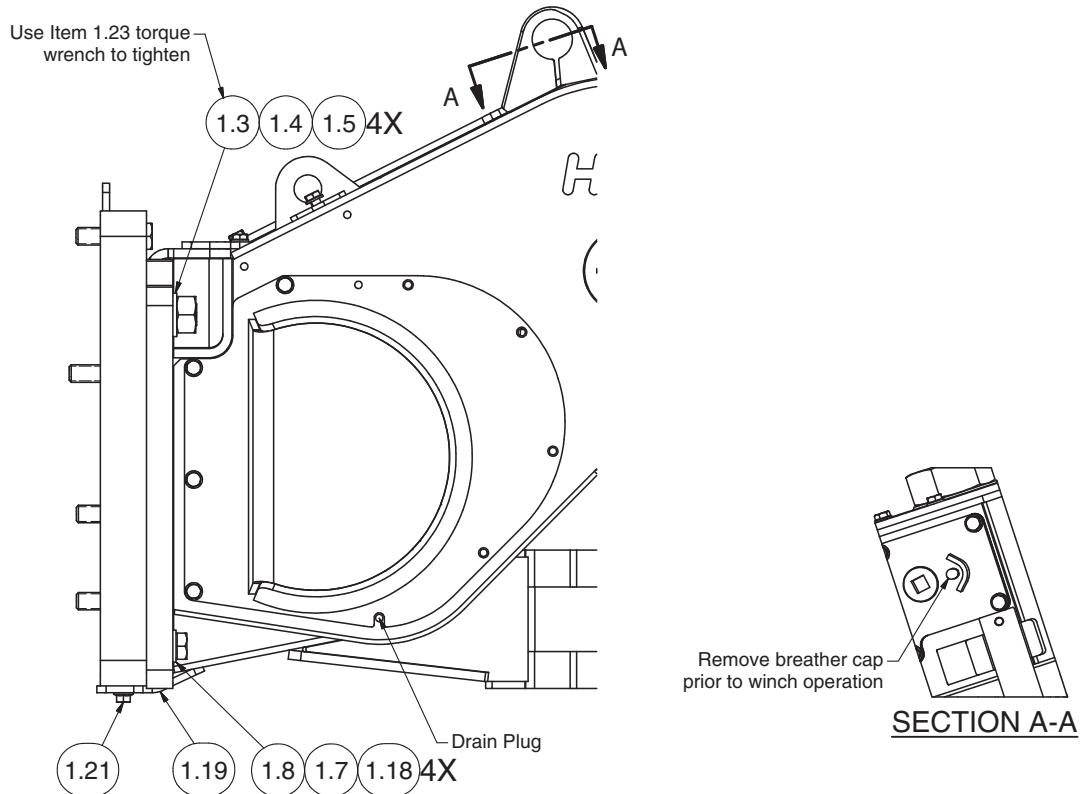


Figure F: Winch Mounting Hardware

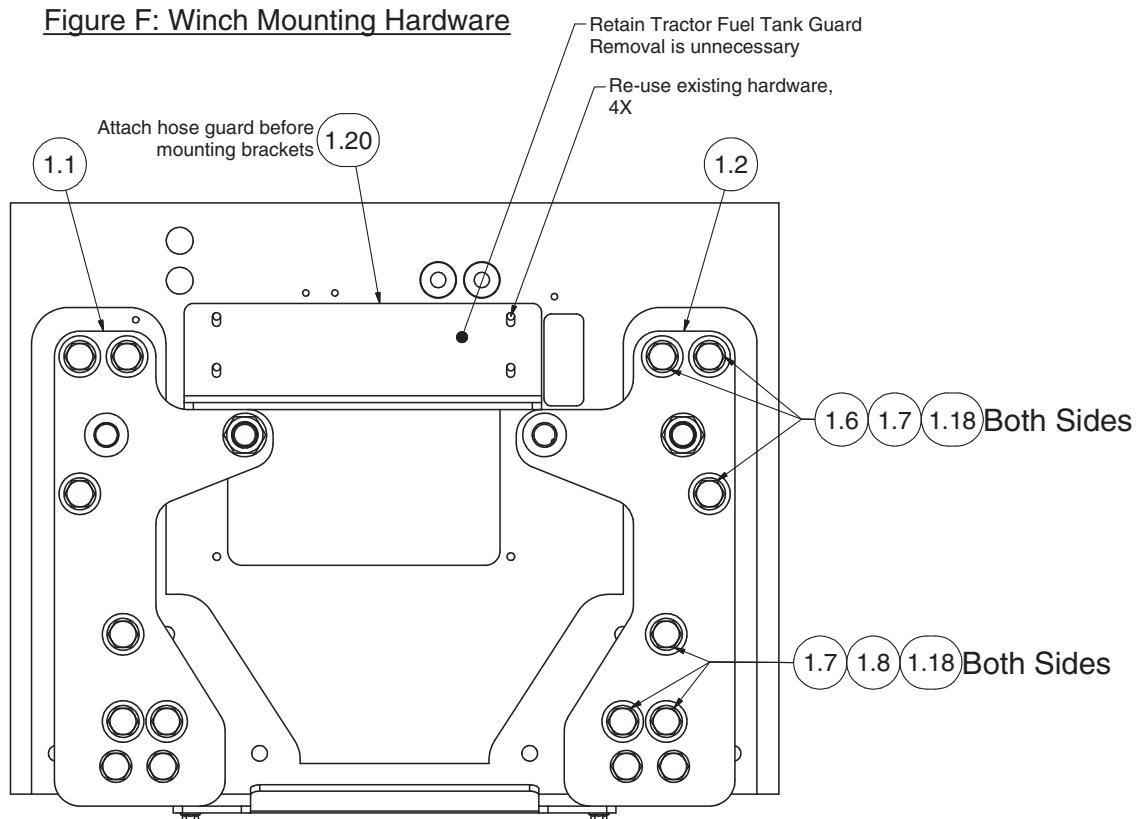
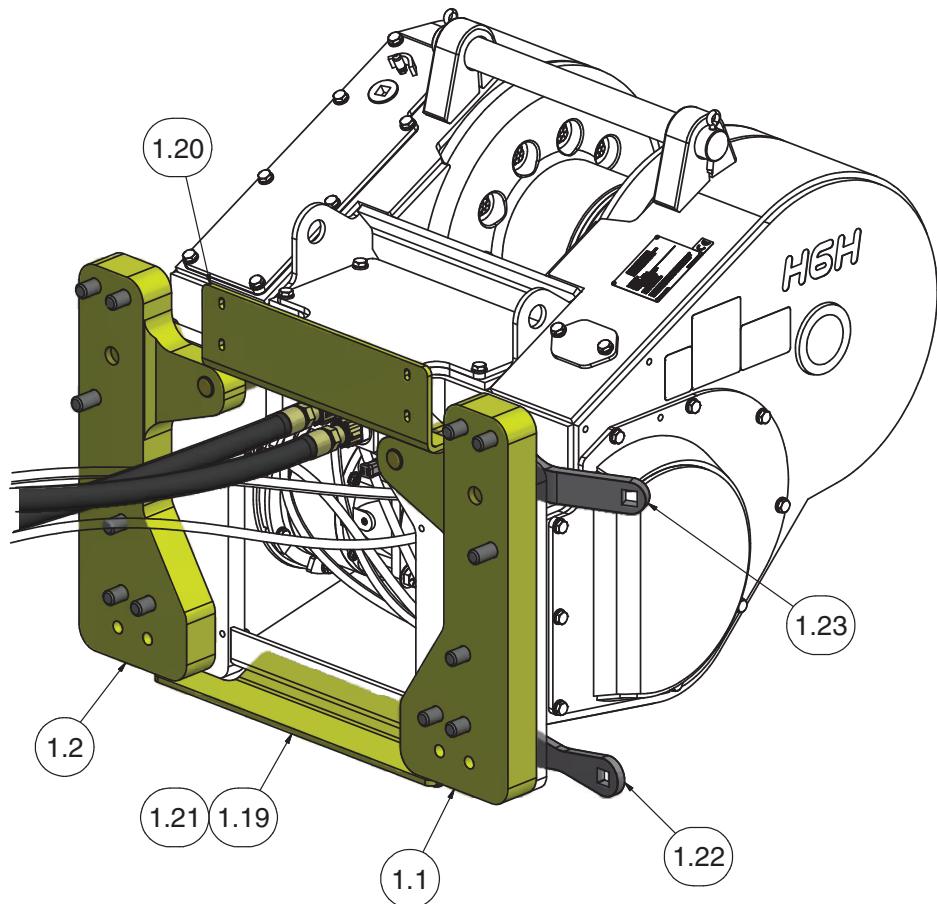


Figure E: Tractor Rear Face
 Winch Not Mounted

Mounting Parts

Caterpillar D6K2 T4f (C805)

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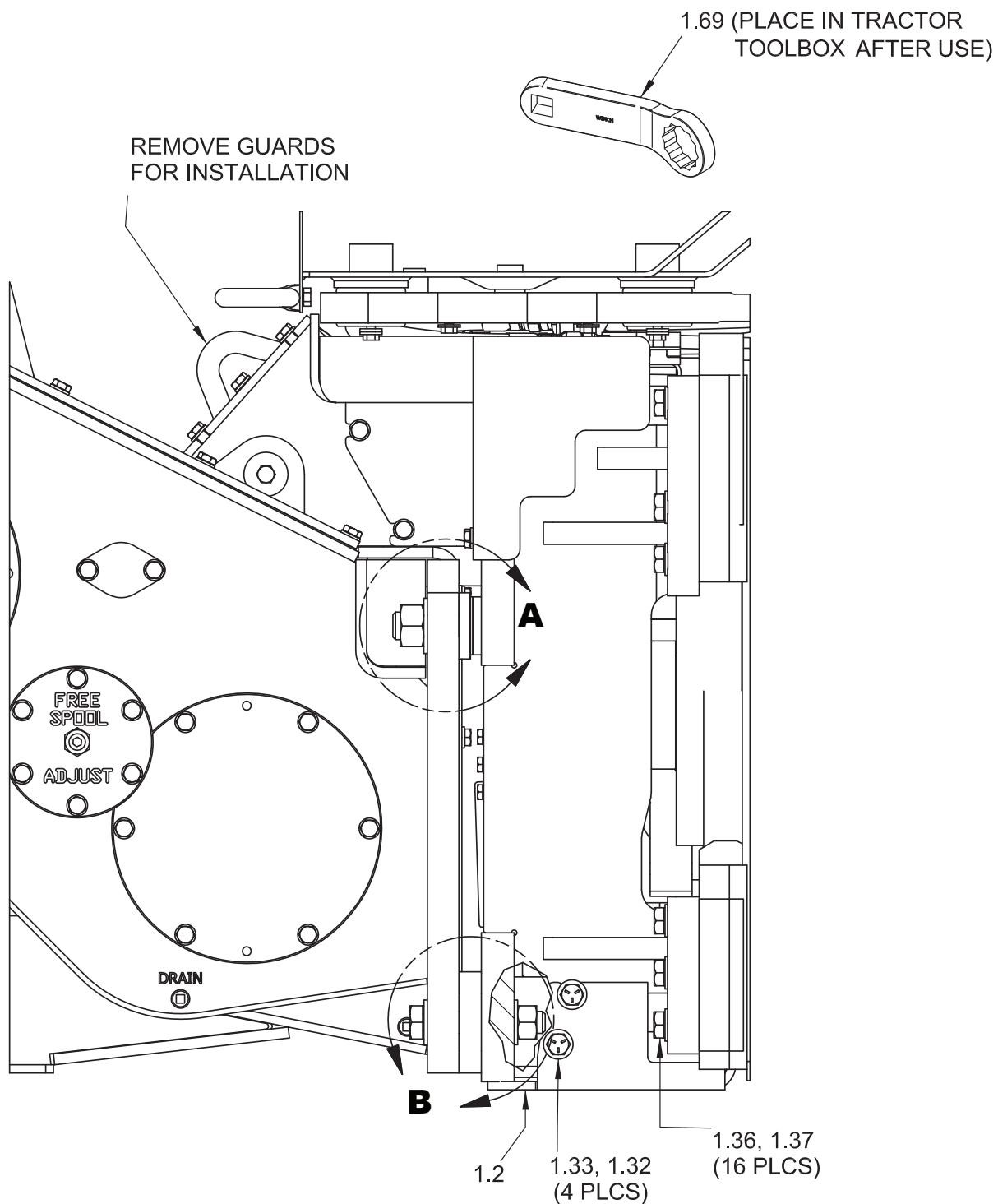


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	2317104	1	Bracket - Mounting, LH	1.8	296434W	16	Washer
1.2	2317105	1	Bracket - Mounting, RH	1.18	318702W	10 ML	Thread Lock, Med.
1.3	2312090	4	Stud	1.19	2317137	1	Guard - Hose, Lower
1.4	296440W	4	Washer	1.20	2317138	1	Guard - Hose, Upper
1.5	2312089	4	Nut	1.21	398817W	2	Screw, Flange
1.6	293729W	6	Capscrew	1.22	2314046	1	Wrench, Torque Extension
1.7	274044W	10	Capscrew	1.23	2312331	1	Wrench, Torque Extension

Mounting Parts

Caterpillar D6N (C81)

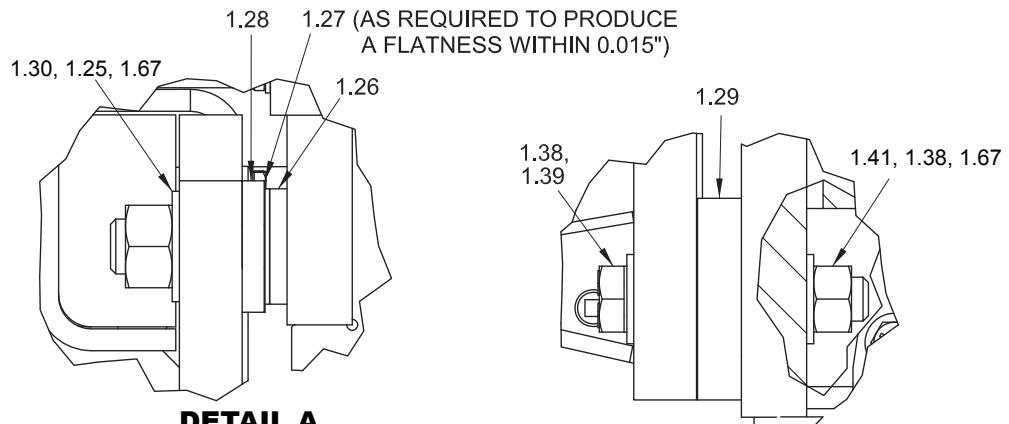
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Mounting Parts

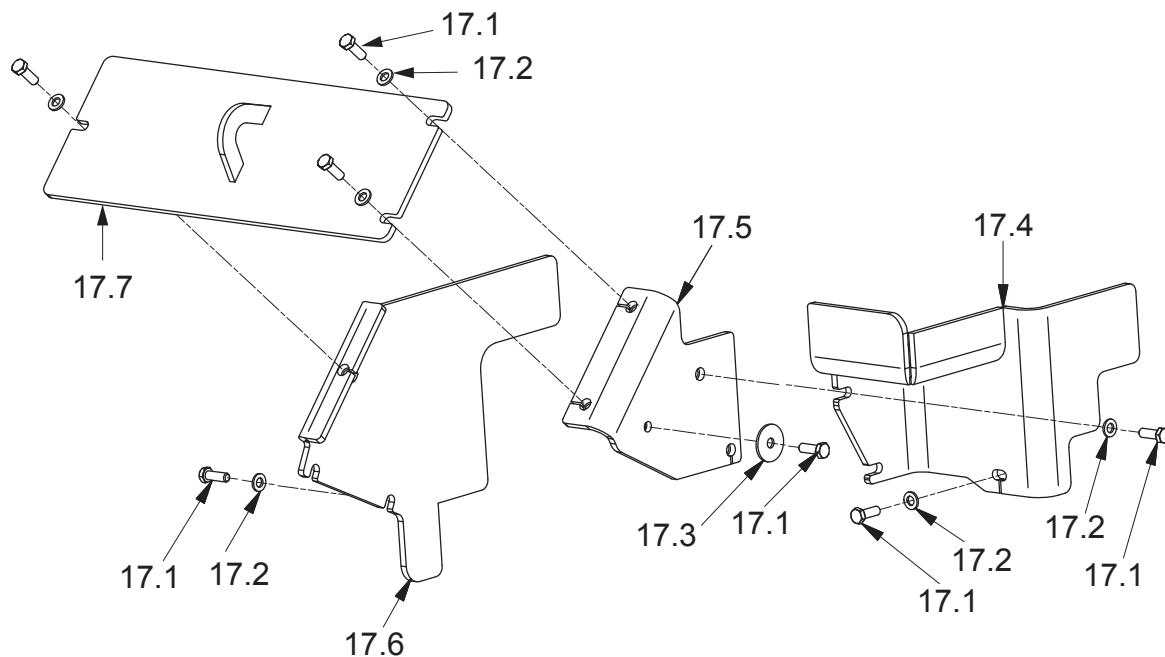
Caterpillar D6N (C81)

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DETAIL A
UPPER WINCH MOUNTING

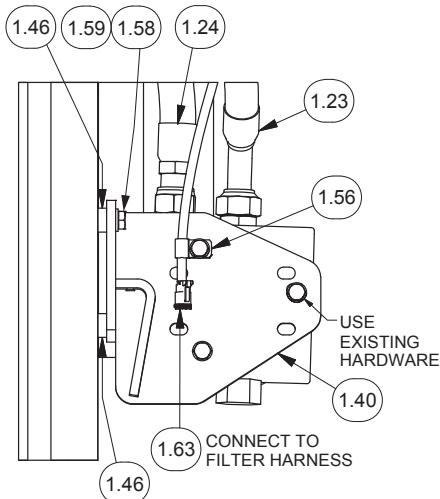
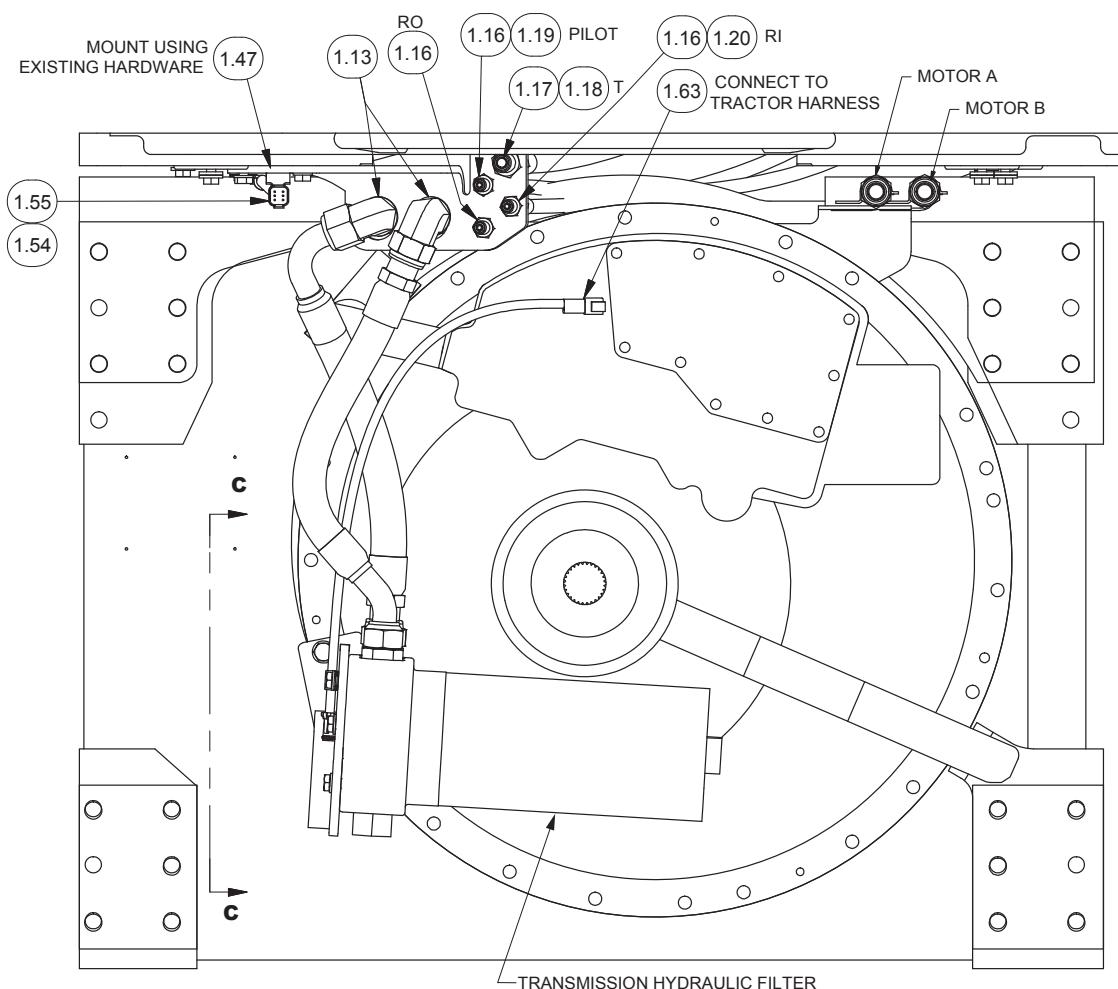
DETAIL B
LOWER WINCH MOUNTING



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1.2	2305541W	1	Guard, Bottom	1.39	R138019014	4	Capscrew	
1.25	15128W	4	Washer	1.41	*a	221720W	4	Nut
1.26	2301529W	4	Washer, Spherical	1.69	2310958	1	Wrench, Extension Torque	
1.27	223453W	AR	Shim .029	17.1	293646W	9	Capscrew	
1.28	2312846	2	Pad, Top Mounting	17.2	296422W	8	Washer	
1.29	2312847	2	Pad, Bottom Mounting	17.3	2305715W	1	Washer, Fender	
1.30	221725W	4	Nut	17.4	2313122	1	Hose Guard, RH	
1.32	16644W	4	Capscrew	17.5	2313120	1	Mount, Hose Guard	
1.33	221775W	4	Washer	17.6	2313102	1	Hose Guard, LH	
1.36	293710W	16	Capscrew	17.7	2313125	1	Center, Hose Guard	
1.37	296430W	16	Washer	*a		Uses 318702W Thread Lock		
1.38	221780W	8	Washer					

Rear Face Preparation and Filter Relocation

Caterpillar D6N (H6HT**C81)



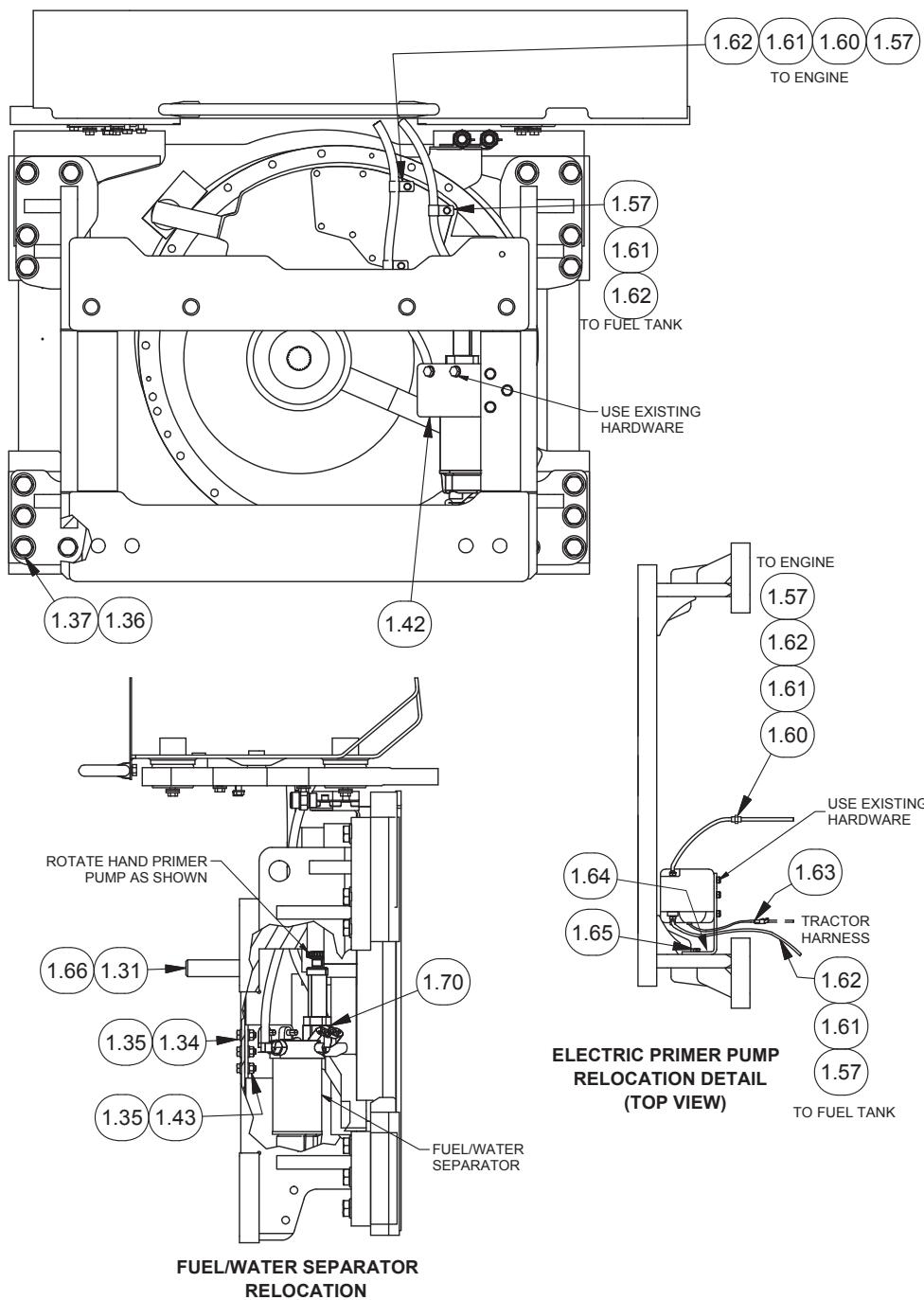
SECTION C-C

Item	Part No.	Qty	Description
1.13	2305620W	2	Fitting
1.16	R834100	3	Fitting
1.17	R834103	1	Fitting
1.18	*a 254680	1	Hose Assy
1.19	*a 249465	1	Hose Assy
1.20	*a 242358	2	Hose Assy
1.23	*a 2307896W	1	Hose Assy
1.24	*a 2307895W	1	Hose Assy
1.40	2307890W	1	Bracket - Filter
1.46	2307893W	2	Spacer
1.47	2313133	1	Bulkhead
1.54	2311550	1	Clip, Harness Mounting
1.55	2313138	1	Console, Wire Harness
1.56	243057	1	Clamp
1.58	293647W	2	Capscrew
1.59	296422W	2	Hard Washer
1.63	2305617W	1	Harness, Filter

*a Included in Hose Kit 2314767

Fuel/Water Separator Relocation

Hand Primer Pump and Electric Primer Pump
Caterpillar D6N (H6HT**C81)

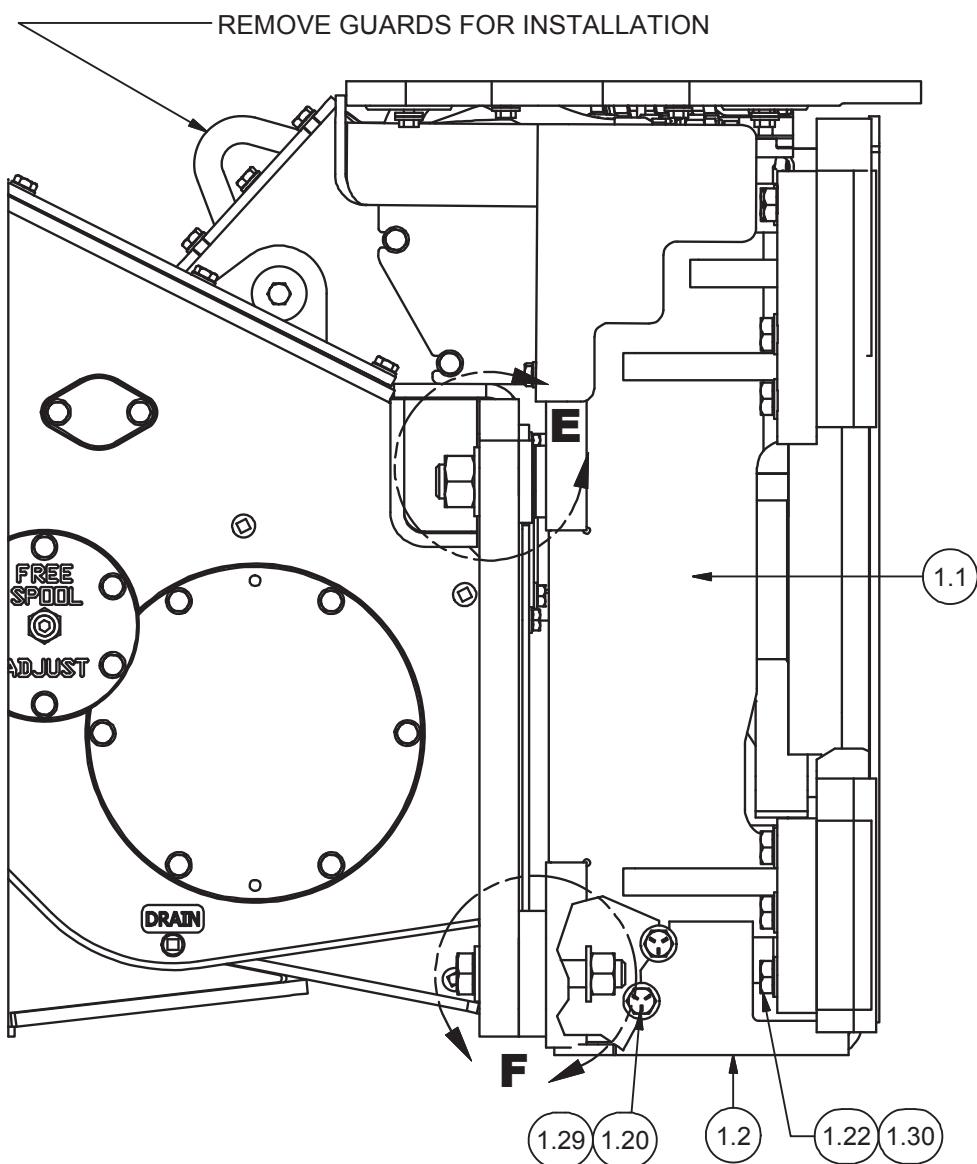


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.31 *a	2300783W	4	Stud	1.61	166857W	1	Clamp
1.34	Y09C-M1030	3	Capscrew	1.62	2306857W	2	Hose
1.35	296420W	6	Hard Washer	1.63	2305617W	1	Harness, Filter
1.36	293710W	16	Capscrew	1.64	2306836W	1	Bracket, Mounting
1.37	296430W	16	Hard Washer	1.65	18738W	2	Capscrew
1.42	2307894W	1	Mounting Plate	1.70	2307911W	1	Gasket
1.43	292655W	3	Nut				
1.57	387316W	3	Clamp	*a	Apply 230064W Loctite Kit		
1.60	2306858W	1	Fitting				

Mounting Parts

Caterpillar D6N (C811)

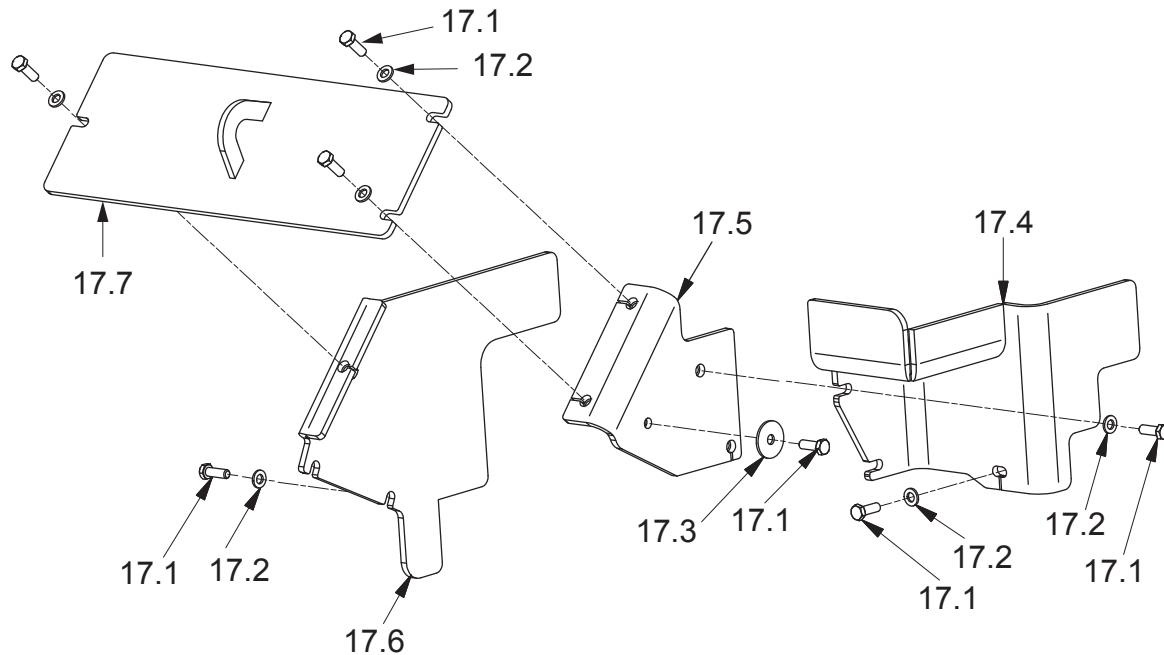
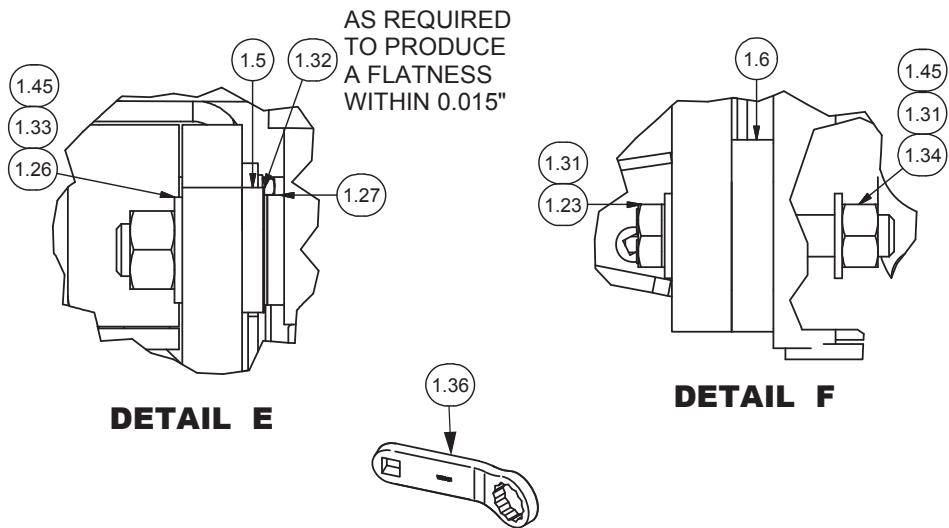
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Mounting Parts

Caterpillar D6N (C811)

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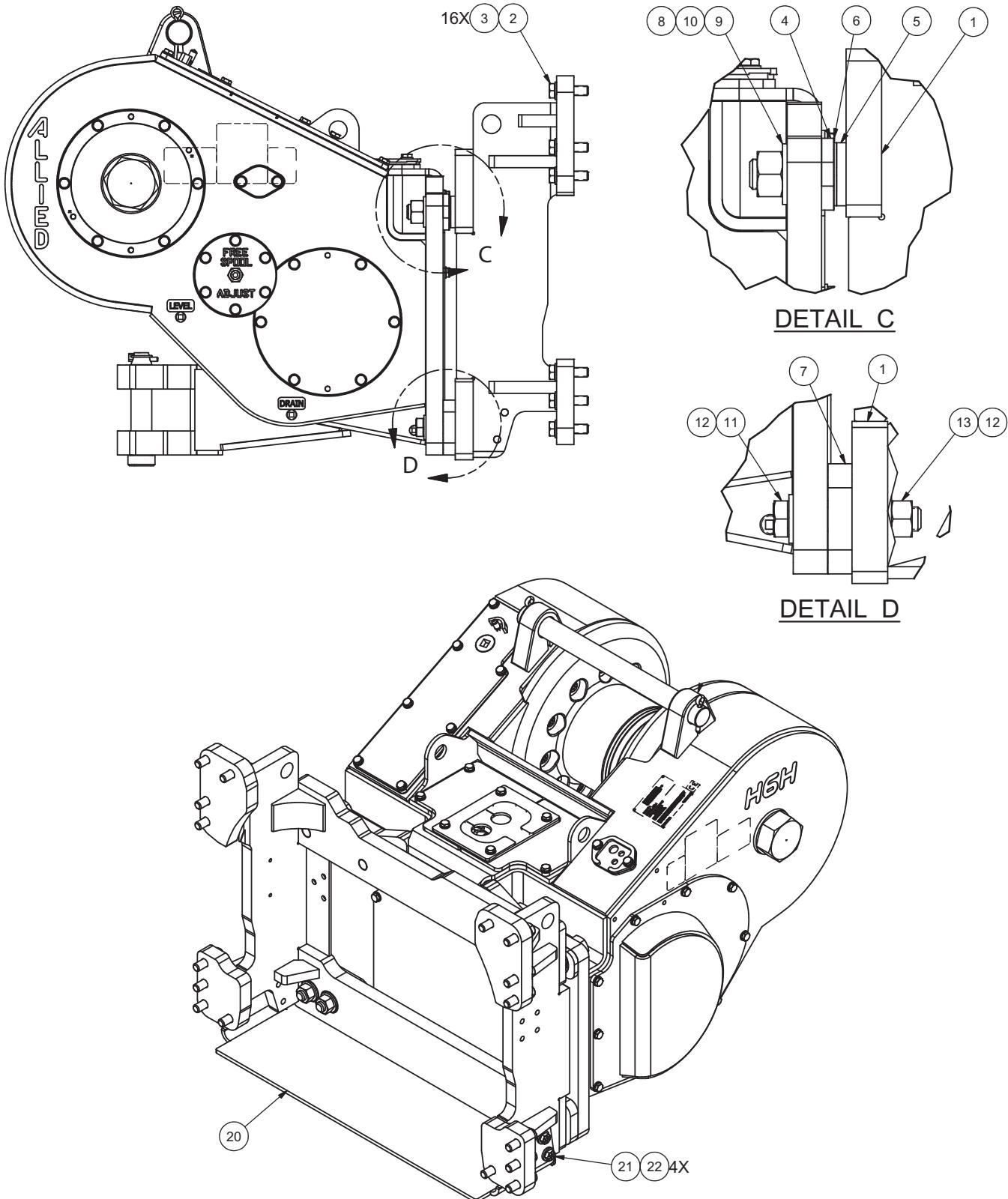


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	2307702W	1	Bracket	1.32	223453W	AR	Shim .020"
1.2	2305541W	1	Guard, Bottom	1.33	221725W	4	Nut
1.5	2312846	2	Pad, Top Mounting	1.34	221720W	4	Nut
1.6	2312847	2	Pad, Bottom Mounting	1.36	2310958	1	Wrench, Extension Torque
1.20	16644W	4	Capscrew	1.45	318702W	10 ML	Thread Lock, Med. Strength
1.22	293710W	16	Capscrew	17.1	293646W	9	Capscrew
1.23	R13801901	4	Capscrew	17.2	296422W	8	Washer
1.26	225851	4	Washer	17.3	2305715W	1	Washer, Fender
1.27	2301529W	4	Washer, Spherical	17.4	2313122	1	Hose Guard, RH
1.29	221775W	4	Washer	17.5	2313120	1	Mount, Hose Guard
1.30	296430W	16	Washer	17.6	2313102	1	Hose Guard, LH
1.31	221780W	8	Washer	17.7	2313125	1	Center, Hose Guard

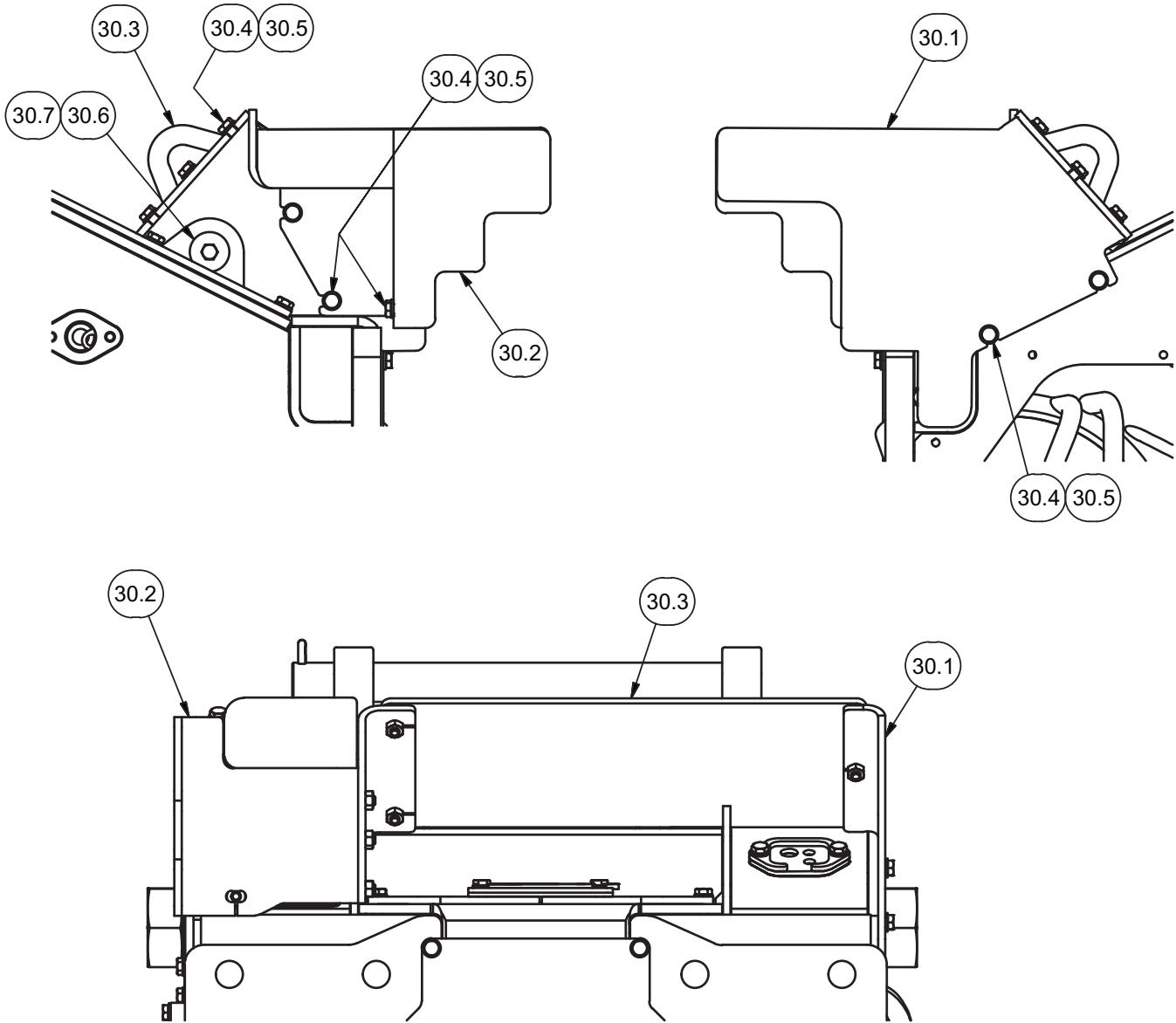
Mounting Parts

Caterpillar D5 BUILD 17 A/B (C812)

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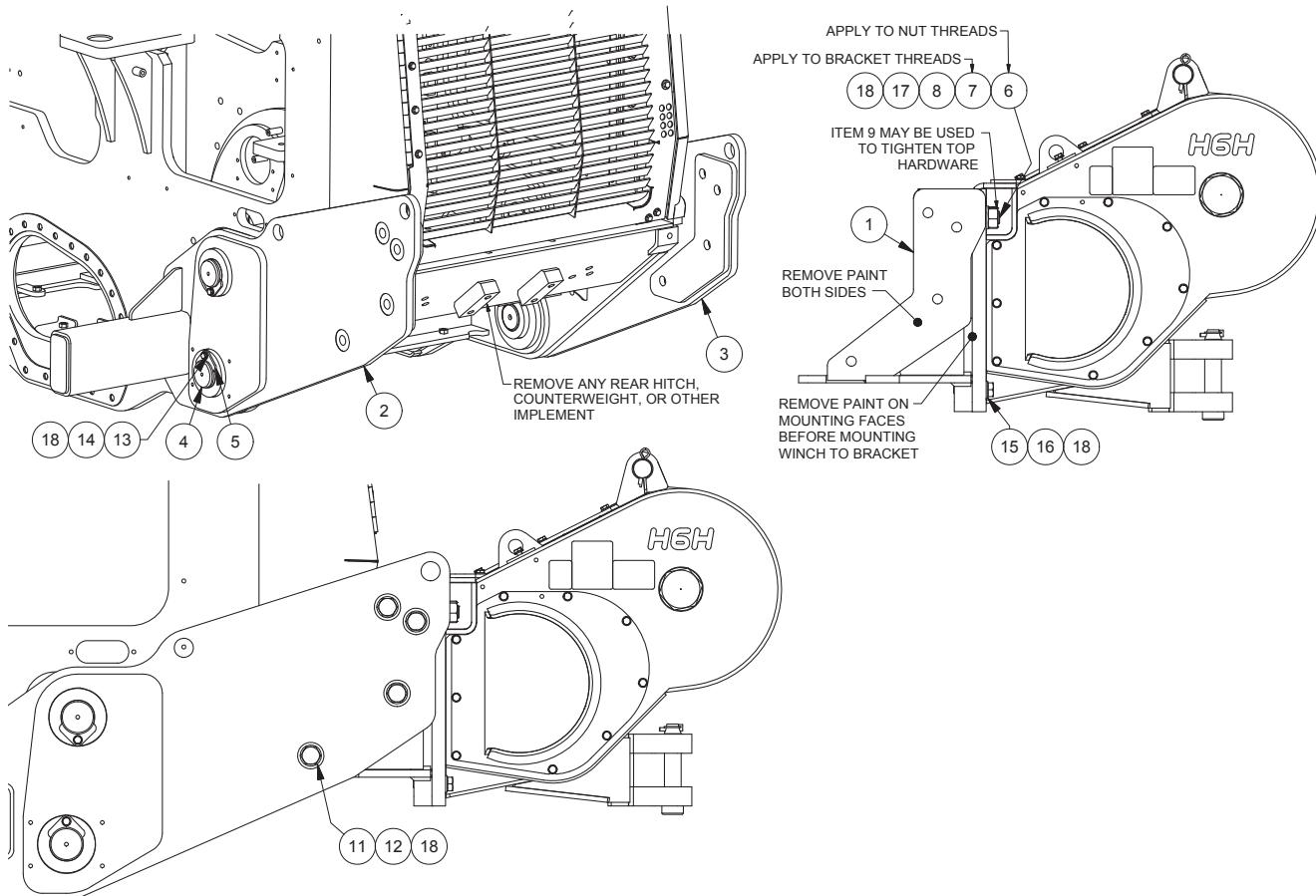
Mounting Parts
Caterpillar D5 BUILD 17 A/B (C812)
 Page 2 of 2



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2307702W	1	Bracket - Mounting, D5/6N	13	221720W	4	Hex Nut
2	293710W	16	Capscrew	20	2317842	1	Guard
3	296430W	16	Washer	21	Y17C-1024	4	Capscrew
4	2312846	2	Pad, Top Mounting	22	234271	4	Washer
5	2301529W	4	Washer Assembly	30.1	2317861	1	Guard, LH
6	223453W	4	Shim .020	30.2	2317859	1	Guard, RH
7	2312847	2	Pad, Bottom Mounting	30.3	2317863	1	Plate,Guard, Mid
8	2300783W	4	Stud	30.4	Y09C-M1235	6	Capscrew
9	225851	4	Washer	30.5	296422W	6	Washer
10	221725W	4	Hex Nut	30.6	2305715W	1	Washer
11	R13801901	4	Capscrew	30.7	293646W	1	Capscrew
12	221780W	8	Washer				

Mounting Parts

Caterpillar 963D Track Loader (H6HT1BC963)*



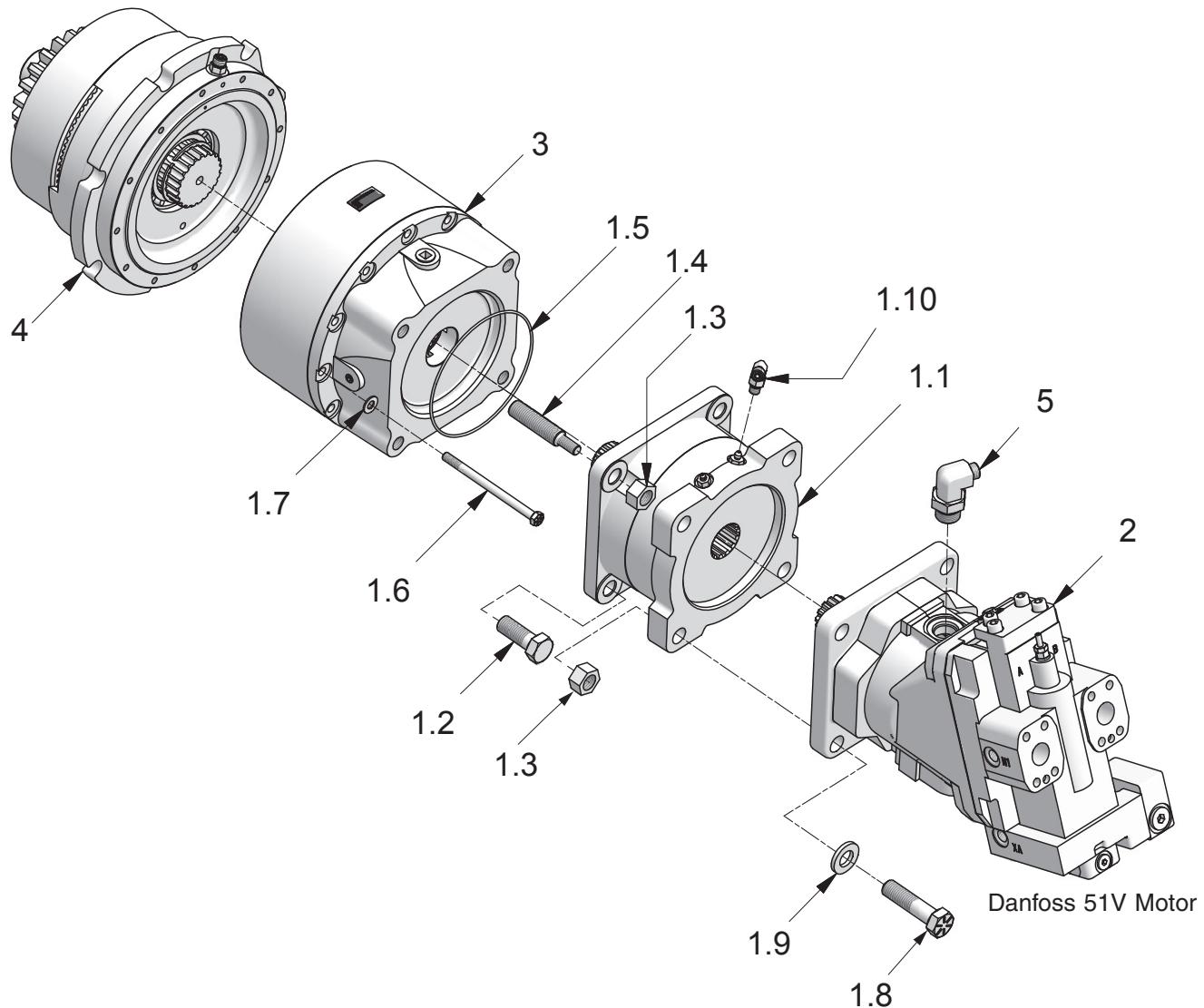
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2316040	1	Bracket - Center	12	Y19C-M3090	8	Capscrew
2	2316041	1	Bracket - LH	13	296422W	10	Washer
3	2316042	1	Bracket - RH	14	292527W	10	Capscrew
4	2316061	4	Pin, Mounting	15	296434W	4	Washer
5	2316062	4	Plate, Retainer	16	293729W	4	Capscrew
6	2312090	4	Stud	17	230064W	4	Kit, Primer
7	296440W	4	Washer	18	318702W	1BTL	Threadlock
8	2312089	4	Nut				
11	296438W	8	Washer				

* Consult Factory For H6HT1DC963 Parts Information

Section 2
Gear/Shaft Train

Motor Shaft Assembly

Caterpillar (C71, C81, C811, C963) Last Used S/N 1713



Motor Shaft Assembly

Caterpillar D6T (H6HT6B**C71) Last Used S/N 1713

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313781		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2313780	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	3	2313891	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	4	2312554	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring		2312928	1	. Assembly, Shaft (See p. 40)
1.6	R13801826	12	. Capscrew	5	R833260	1	. Fitting, Motor Case Drain
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
1.9	221777W	4	. Washer	*b	Not Shown		

Motor Shaft Assembly

Caterpillar D6N (H6HT1B**C81/C811) Last Used S/N 1713

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313143		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2313144	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	3	2313891	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	4	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring		2312928	1	. Assembly, Shaft (See p. 40)
1.6	R13801826	12	. Capscrew	5	R833260	1	. Fitting, Motor Case Drain
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
1.9	221777W	4	. Washer	*b	Not Shown		

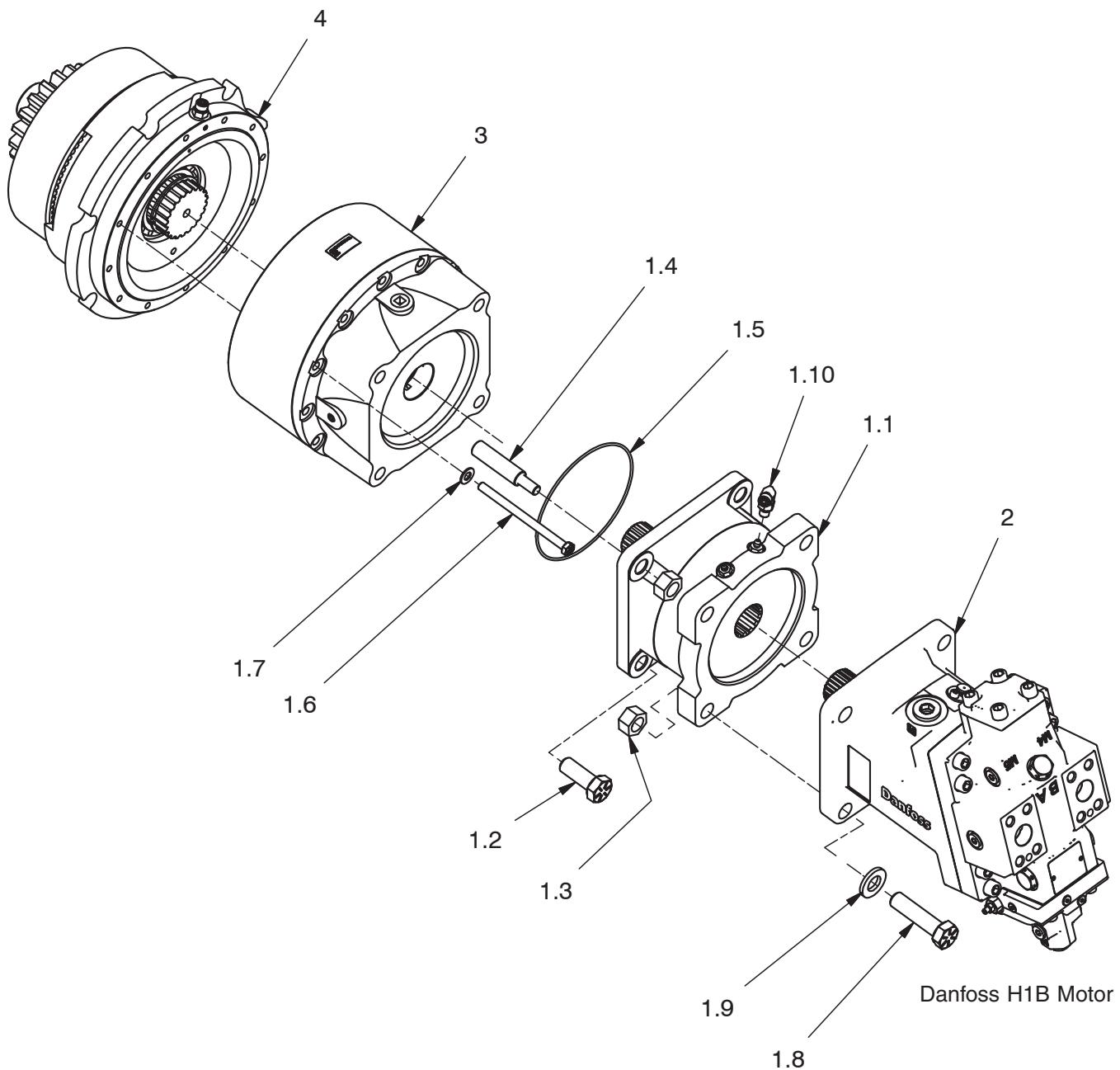
Motor Shaft Assembly

Caterpillar 963D Trackloader (H6HT1BC963) Last Used S/N 1713

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316022		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p.43)	2	2311814	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	3	2313891	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	4	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring		2312928	1	. Assembly, Shaft (See p. 40)
1.6	R13801826	12	. Capscrew	5	2313039	1	. Fitting, Motor Case Drain
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
1.9	221777W	4	. Washer	*b	Not Shown		

Motor Shaft Assembly

Caterpillar (C71, C81, C811, C963) First Used S/N 1714



Motor Shaft Assembly

Caterpillar D6T (H6HT6B**C71) First Used S/N 1714

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316151		Assembly, Motor Shaft	1.9	221777W	4	. Washer
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	1.10	R833251	1	. Fitting
				2	2316125	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2312554	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312928	1	. Assembly, Shaft
1.6	R13801826	12	. Capscrew				(See p. 40)
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
				*b	Not Shown		

Motor Shaft Assembly

Caterpillar D6N (H6HT1B**C81/C811) First Used S/N 1714

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316147		Assembly, Motor Shaft	1.9	221777W	4	. Washer
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	1.10	R833251	1	. Fitting
				2	2316121	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312928	1	. Assembly, Shaft
1.6	R13801826	12	. Capscrew				(See p. 40)
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
				*b	Not Shown		

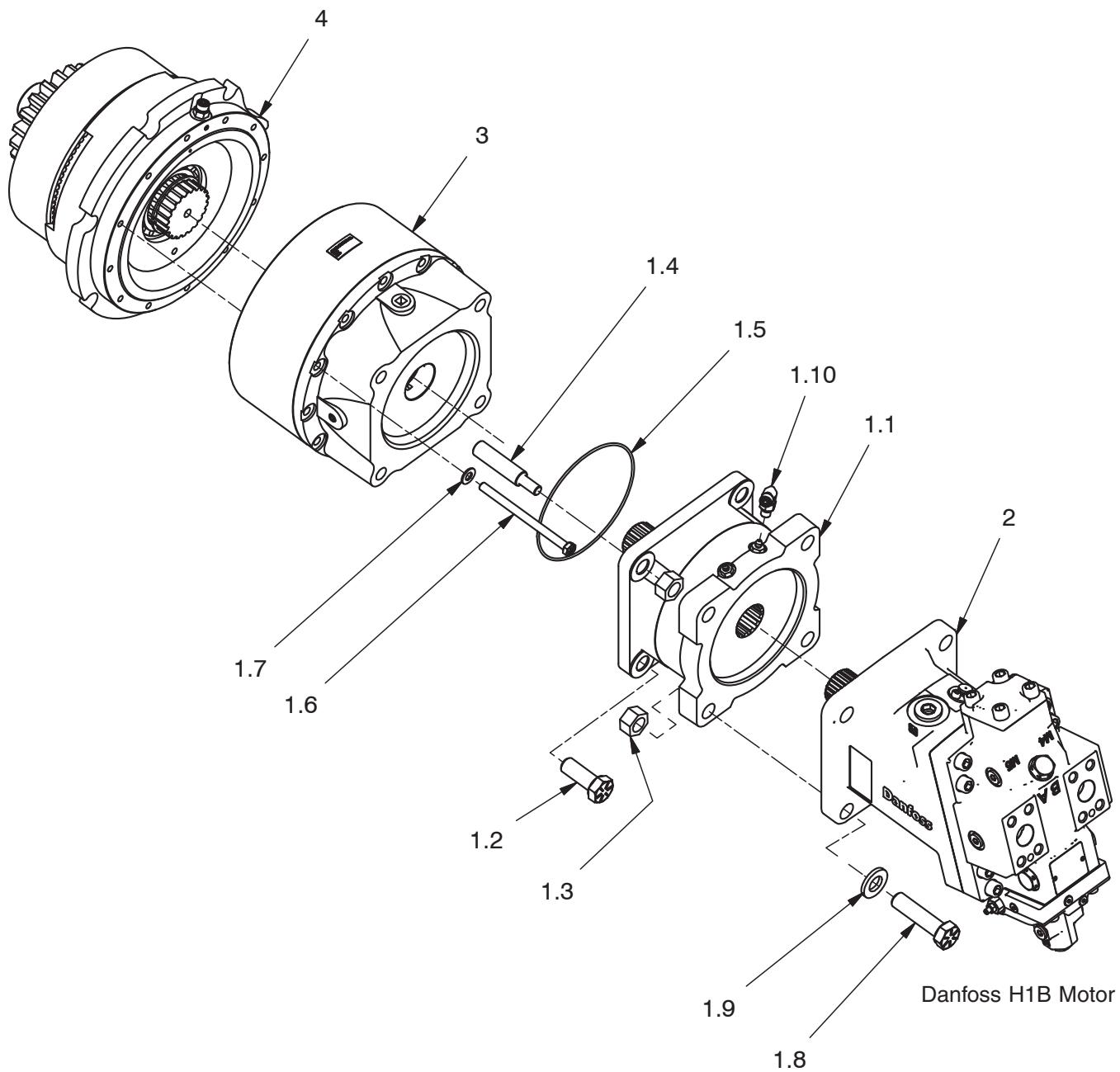
Motor Shaft Assembly

Caterpillar 963D Trackloader (H6HT1B**C963) First Used S/N 1714

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316163		Assembly, Motor Shaft	1.9	221777W	4	. Washer
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	1.10	R833251	1	. Fitting
				2	2316118	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312928	1	. Assembly, Shaft
1.6	R13801826	12	. Capscrew				(See p. 40)
1.7	221767W	12	. Washer				
1.8	177192W	4	. Capscrew	*a	Included in Motor, Reducer & Brake Assembly Rebuild Kit 2314659		
				*b	Not Shown		

Motor Shaft Assembly

Caterpillar (C712, C805, C812)



Motor Shaft Assembly

Caterpillar D6/D6XE BUILD 20A (H6HT***C712)

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316925		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2316926	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2312554	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312928	1	. Assembly, Shaft (See p. 40)
1.6	R13801826	12	. Capscrew				
1.7	221767W	12	. Washer				*a Included in Motor, Reducer & Brake Assembly
1.8	177192W	4	. Capscrew				Rebuild Kit 2314659
1.9	221777W	4	. Washer				*b Not Shown

Motor Shaft Assembly

Caterpillar D6K2 T4f (H6HH***C805)

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2317103		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2317119	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2312965	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312966	1	. Assembly, Shaft (See p. 39)
1.6	R13801826	12	. Capscrew				
1.7	221767W	12	. Washer				*a Included in Motor, Reducer & Brake Assembly
1.8	177192W	4	. Capscrew				Rebuild Kit 2314659
1.9	221777W	4	. Washer				*b Not Shown

Motor Shaft Assembly

Caterpillar D6K2 T4f (H6HT***C805)

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2316146		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2316120	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2313026	1	. Assembly, Shaft (See p. 38)
1.6	R13801826	12	. Capscrew				
1.7	221767W	12	. Washer				*a Included in Motor, Reducer & Brake Assembly
1.8	177192W	4	. Capscrew				Rebuild Kit 2314659
1.9	221777W	4	. Washer				*b Not Shown

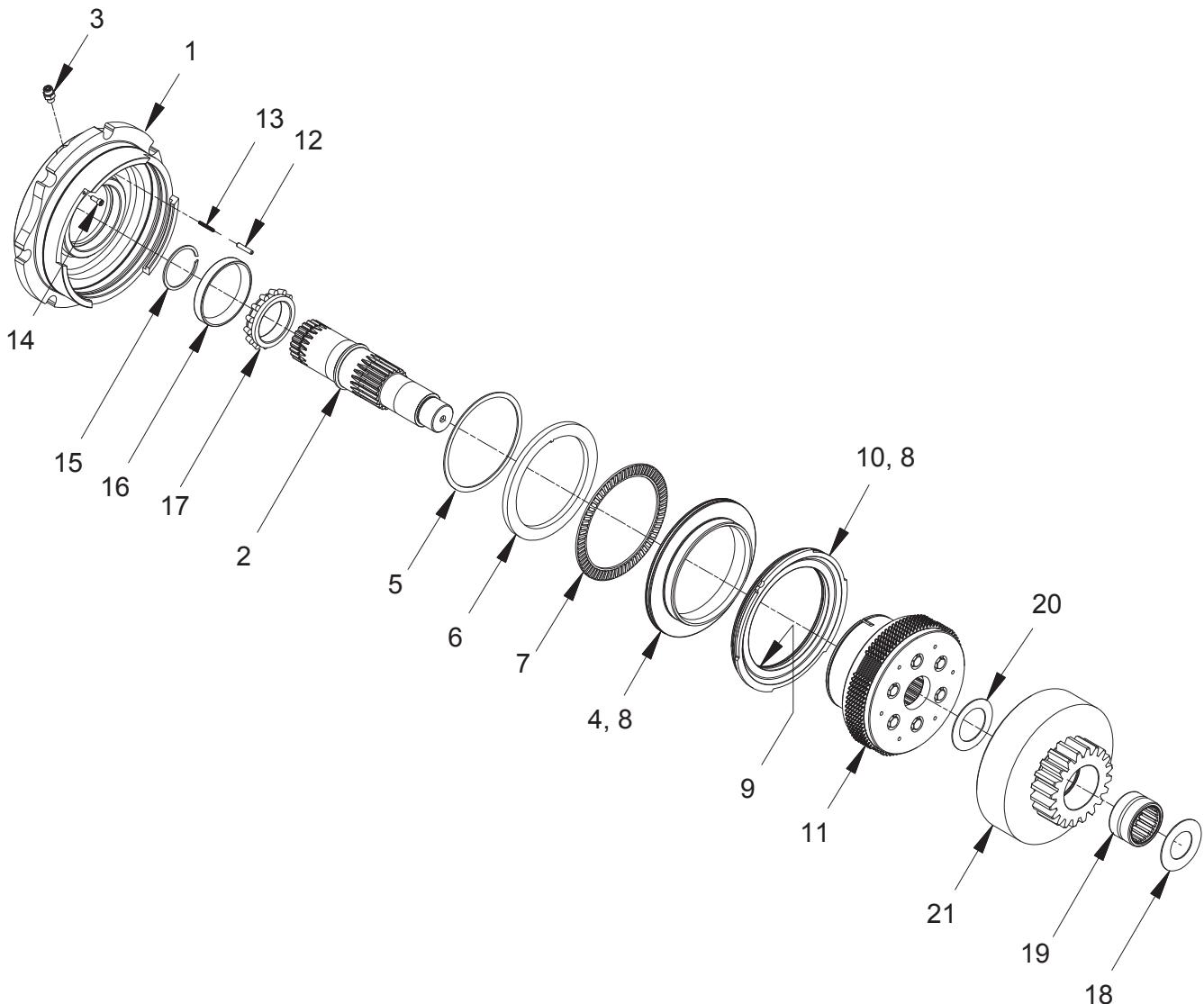
Motor Shaft Assembly

Caterpillar D6K2 T4f (H6HT***C812)

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2317873		Assembly, Motor Shaft	1.10	R833251	1	. Fitting
1.1	2312155	1	. Brake, D Mount Dry Disk (See p. 43)	2	2317872	1	. Motor, Hydraulic
1.2	Y17C-1232	2	. Capscrew	*a *b	2313890	1	.. O-Ring, Pilot Motor
1.3	221716W	6	. Nut	*a *b	2316156	1	.. Kit, Shaft Seal
1.4	2312041	2	. Stud	3	2311883	1	. Reducer, Planetary
1.5	*a 237349	1	. O-Ring	4	2312928	1	. Assembly, Shaft (See p. 40)
1.6	R13801826	12	. Capscrew				
1.7	221767W	12	. Washer				*a Included in Motor, Reducer & Brake Assembly
1.8	177192W	4	. Capscrew				Rebuild Kit 2314659
1.9	221777W	4	. Washer				*b Not Shown

Shaft Assembly

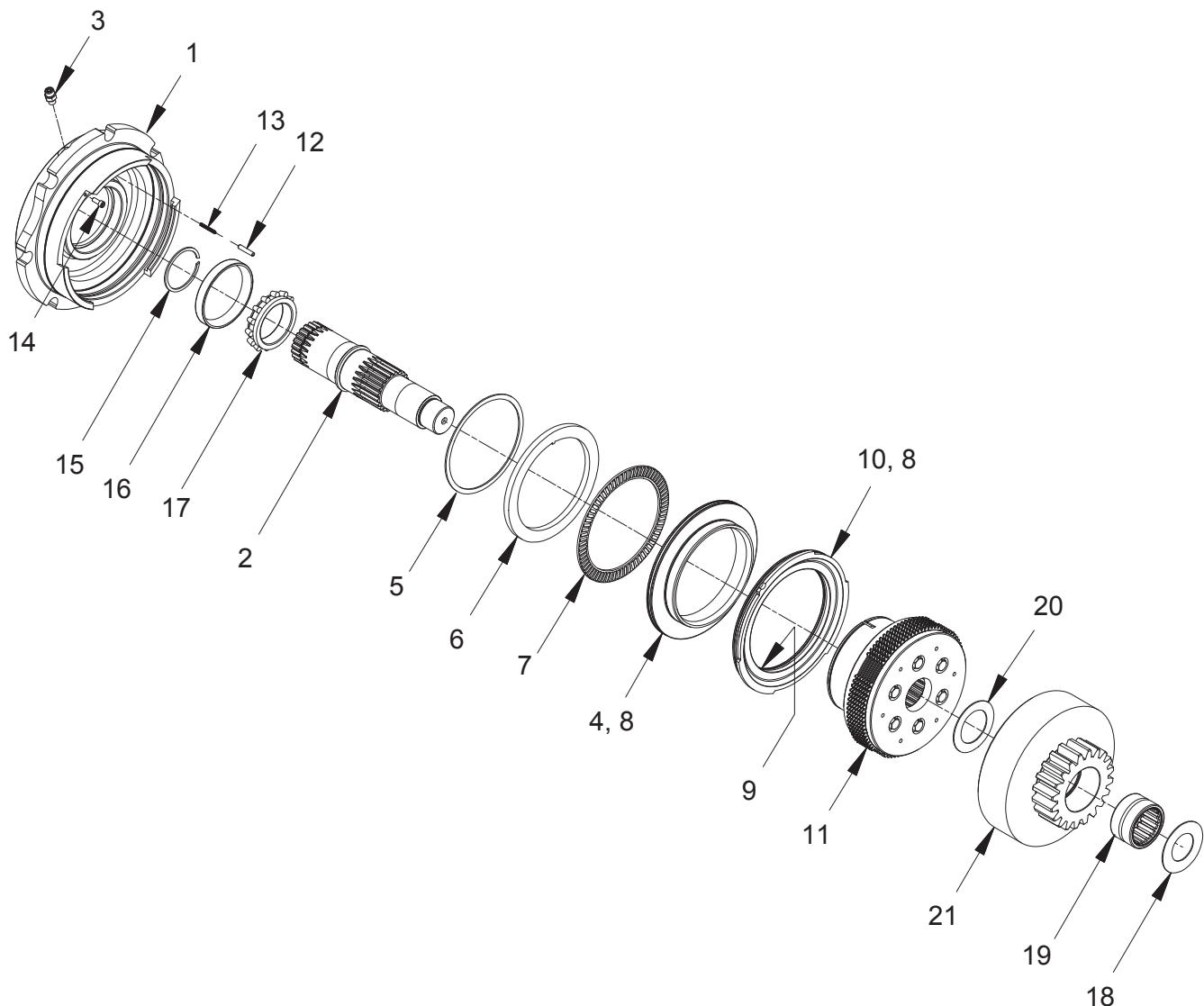
BRAKE-OFF (H6HT***C805)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313026		Assy, BRAKE-OFF Shaft				
1	2311855	1	. Housing, Clutch	12	239147W	1	. Pin
2	2311856	1	. Shaft, Clutch	13	2303992W	1	. Spring
3	231439	1	. Fitting	14	R13811617	1	. Capscrew
4	2312039	1	. Piston, Clutch	15	2311684	1	. Ring, Snap
5	2311683	1	. Ring, Snap	16	137153W	1	. Cup, Roller Bearing
6	2312442	1	. Ring, Thrust	17	137155W	1	. Cone, Roller Bearing
7	2311655	1	. Brdg, Thrust Needle Roller	18	2311869	1	. Shim .062"
8	86585W	2	. O-Ring	19	230407W	1	. Bearing
9	87287W	1	. O-Ring	20	2311687	1	. Shim .062"
10	2311880	1	. Ring, Seal	21	2312977	1	. Gear, Spider
11	2311903	1	. Assy, Clutch (See p. 41)				

Shaft Assembly

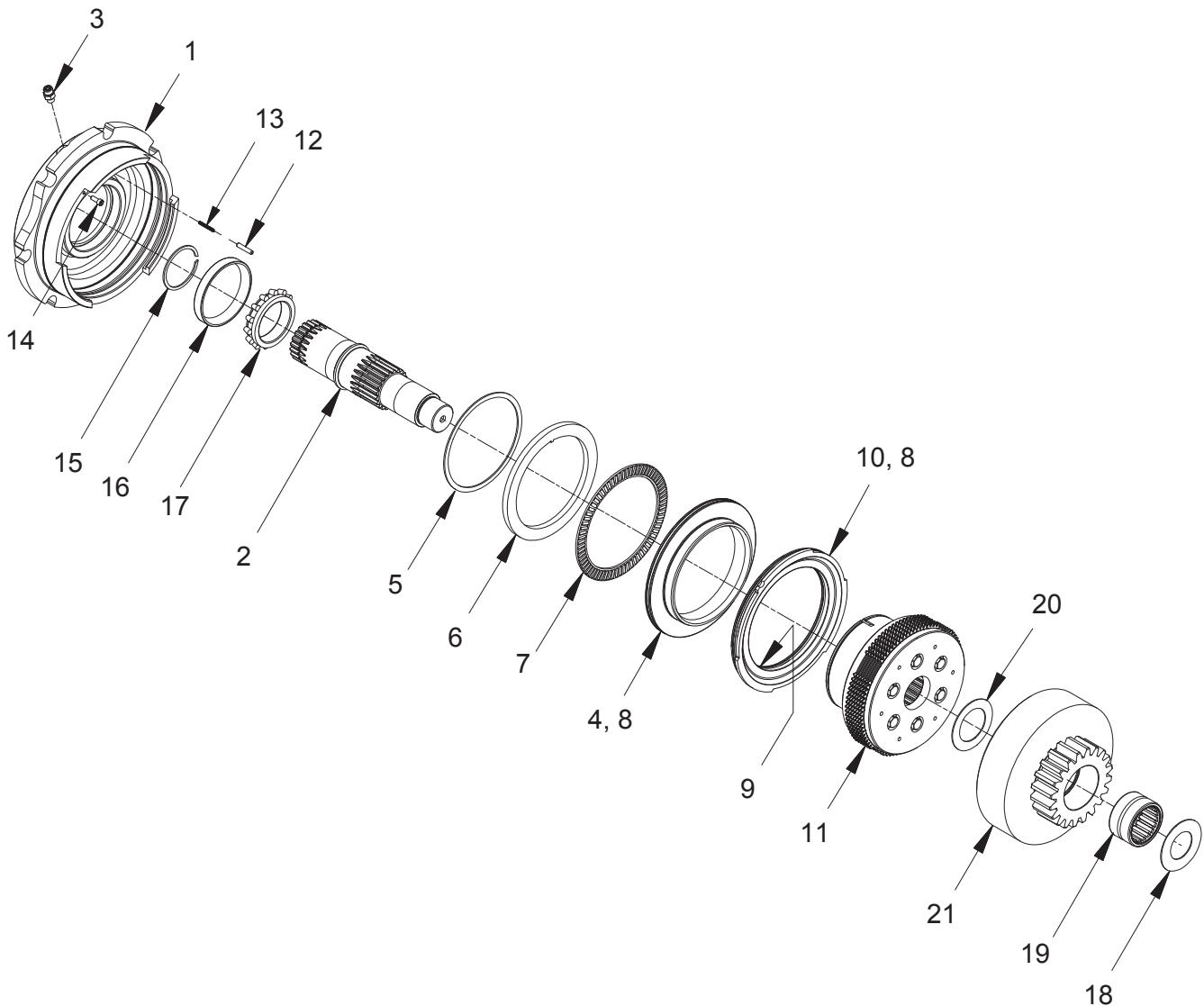
BRAKE-OFF (H6HH***C805)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2312966		Assy, BRAKE-OFF Shaft				
1	2311855	1	. Housing, Clutch	12	239147W	1	. Pin
2	2311856	1	. Shaft, Clutch	13	2303992W	1	. Spring
3	231439	1	. Fitting	14	R13811617	1	. Capscrew
4	2312039	1	. Piston, Clutch	15	2311684	1	. Ring, Snap
5	2311683	1	. Ring, Snap	16	137153W	1	. Cup, Roller Bearing
6	2312442	1	. Ring, Thrust	17	137155W	1	. Cone, Roller Bearing
7	2311655	1	. Brg, Thrust Needle Roller	18	2311869	1	. Shim .062"
8	86585W	2	. O-Ring	19	230407W	1	. Bearing
9	87287W	1	. O-Ring	20	2311687	1	. Shim .062"
10	2311880	1	. Ring, Seal	21	2311905	1	. Gear, Spider
11	2311903	1	. Assy, Clutch (See p. 41)				

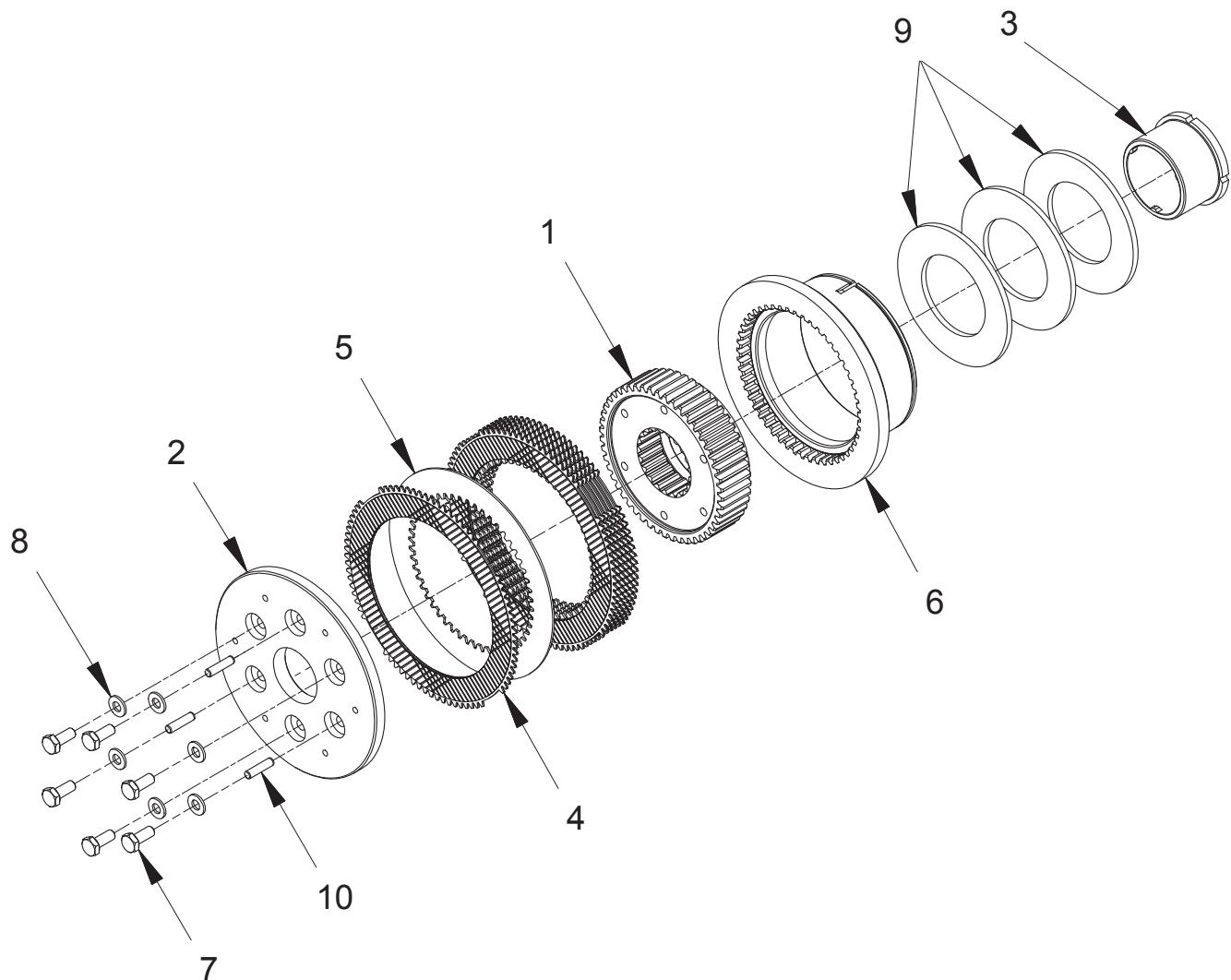
Shaft Assembly

BRAKE-OFF (C71, C712, C81, C811, C812, C963)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2312928		Assy, BRAKE-OFF Shaft				
1	2311855	1	. Housing, Clutch	12	239147W	1	. Pin
2	2311856	1	. Shaft, Clutch	13	2303992W	1	. Spring
3	231439	1	. Fitting	14	R13811617	1	. Capscrew
4	2312039	1	. Piston, Clutch	15	2311684	1	. Ring, Snap
5	2311683	1	. Ring, Snap	16	137153W	1	. Cup, Roller Bearing
6	2312442	1	. Ring, Thrust	17	137155W	1	. Cone, Roller Bearing
7	2311655	1	. Brg, Thrust Needle Roller	18	2311869	1	. Shim .062"
8	86585W	2	. O-Ring	19	230407W	1	. Bearing
9	87287W	1	. O-Ring	20	2311687	1	. Shim .062"
10	2311880	1	. Ring, Seal	21	2311905	1	. Gear, Spider
11	2311903	1	. Assy, Clutch (See p. 41)				

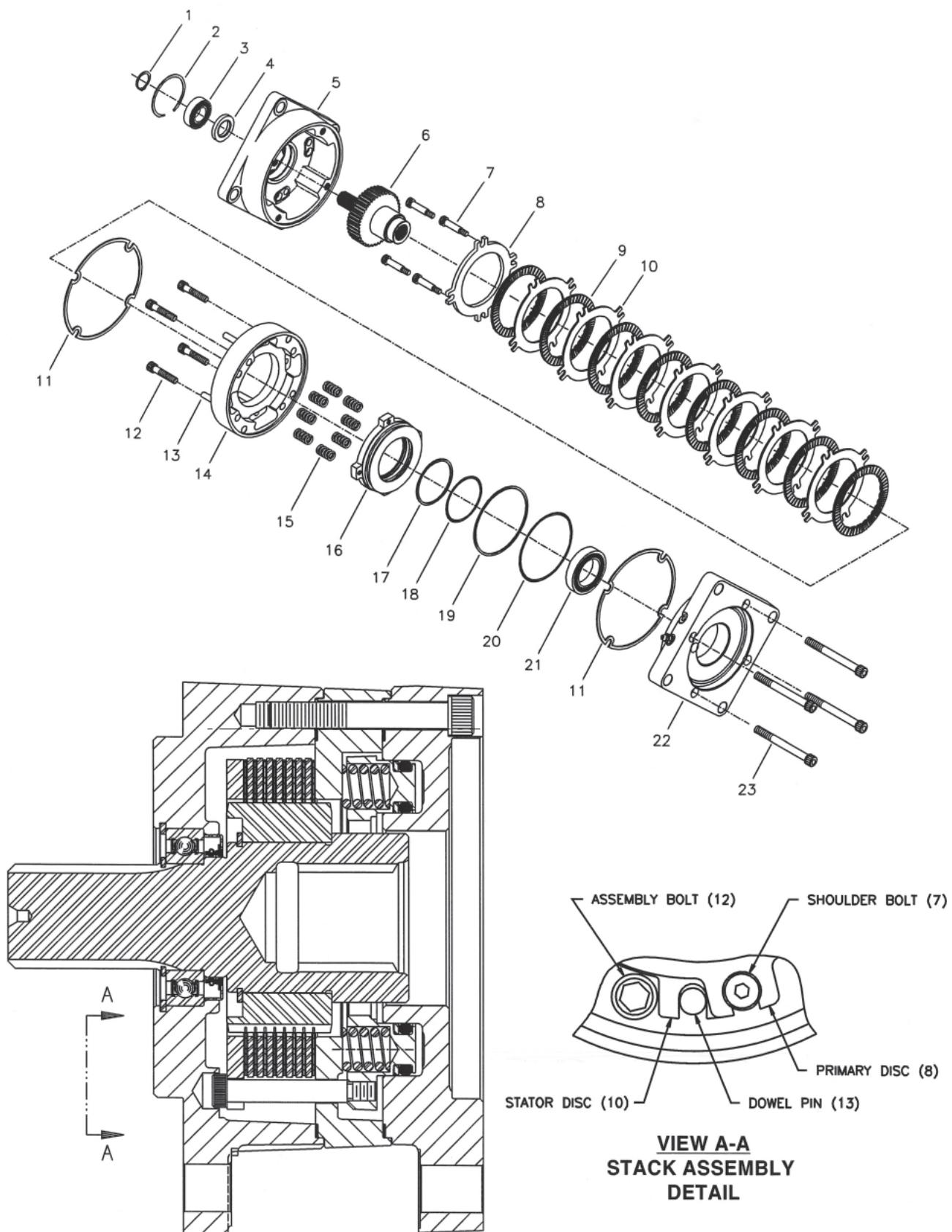
Clutch Assembly



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

Dry Disc Brake

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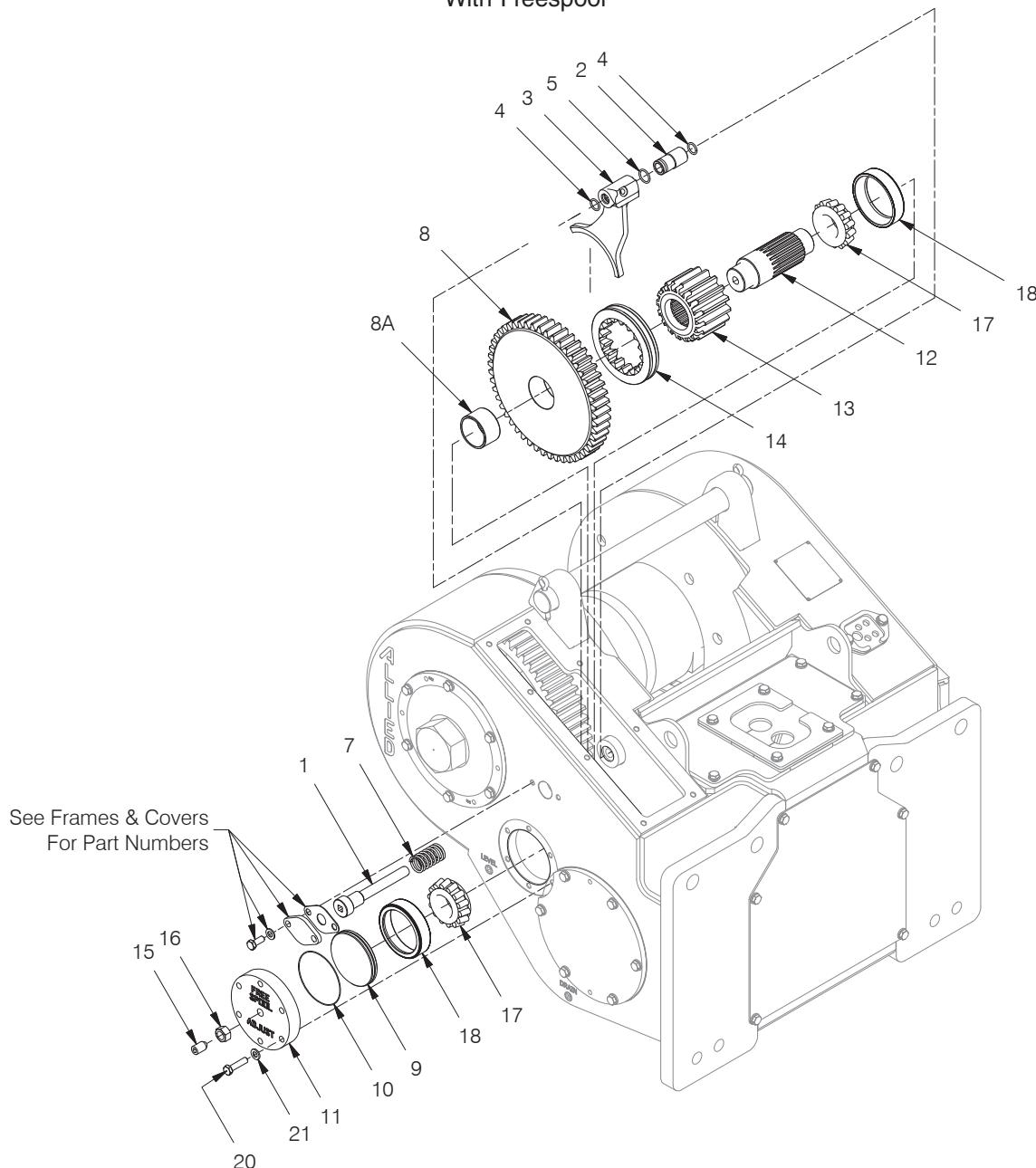
Dry Disc Brake

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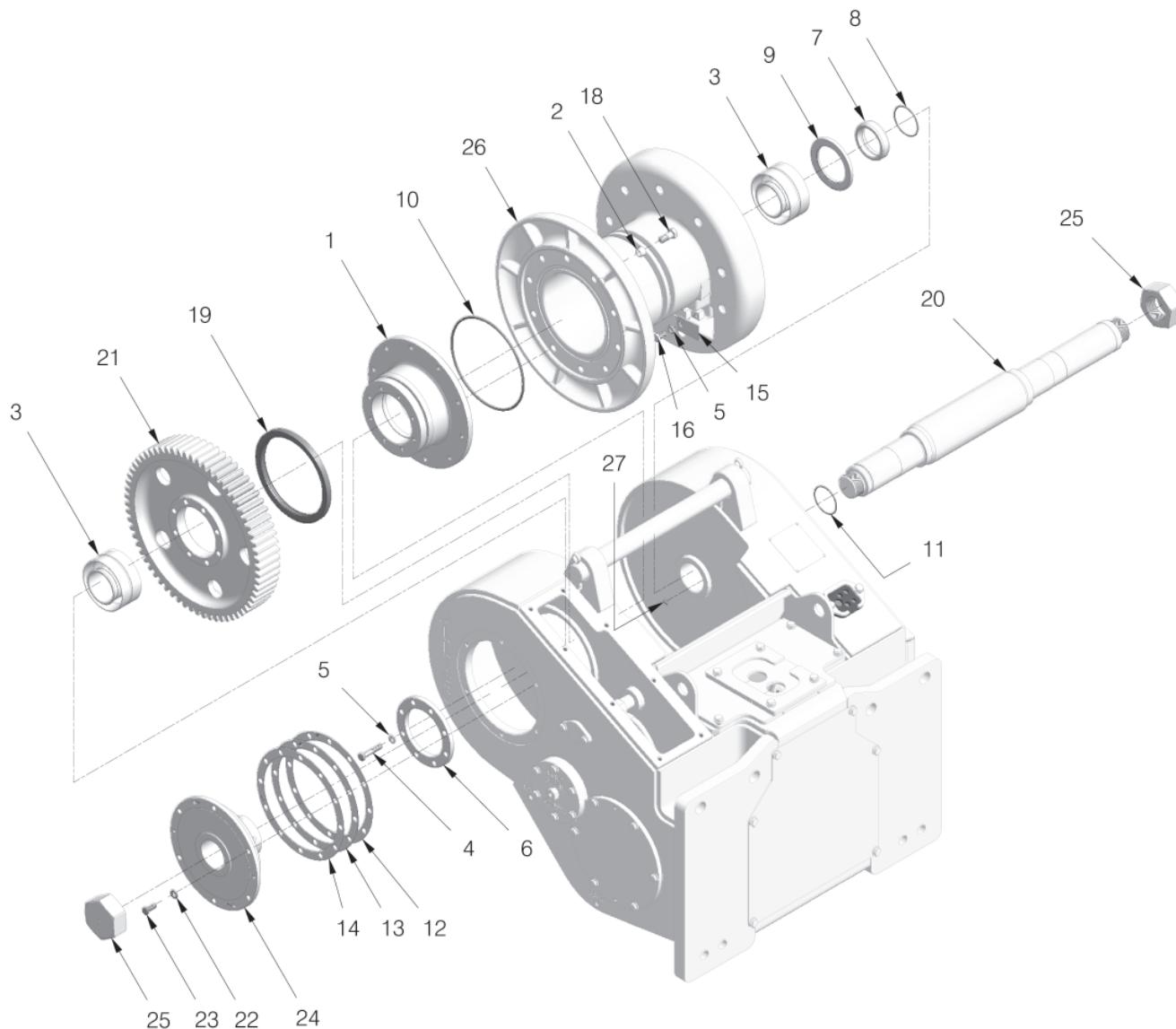
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2312155		Brake, D Mount Dry Disc				
1	NSS	1	. Retaining Ring	21	*b NSS	1	. Bearing
2	NSS	1	. Retaining Ring	22	NSS	1	. Pressure Plate
3	*b NSS	1	. Bearing	23	NSS	4	. Capscrew
4	*a,*b NSS	1	. Oil Seal				
5	NSS	1	. Cover Plate		*a		Included in O-Ring Repair Kit 2312302
6	NSS	1	. Spline Shaft Assembly				O-Ring Repair Kit 2312302 is included in
7	NSS	4	. Bolt				Motor, Reducer & 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 Repair Kit 2312303 is included in
11	*a,*b,*c,*d NSS	2	. Case Gasket				Intermediate/Drum Shaft & Brake Assembly
12	NSS	4	. Capscrew				Rebuild Kit 2314660
13	NSS	4	. Dowel Pins		*c		Included in Spring Repair Kit 250850
14	NSS	1	. Spring Plate				Spring Repair Kit 250850 is included in
15	*c NSS	10	. Spring, Red				Intermediate/Drum Shaft & Brake Assembly
16	NSS	1	. Piston				Rebuild Kit 2314660
17	*a NSS	1	. Backup Ring		*d		Included in Lining Repair Kit 250847
18	*a NSS	1	. O-Ring				Lining Repair Kit 250847 is Included in
19	*a NSS	1	. Backup Ring				Intermediate/Drum Shaft & Brake Assembly
20	*a NSS	1	. O-Ring				Rebuild Kit 2314660
					NSS		Not Sold Separately

Intermediate Gear Shaft

With Freespool



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1 *a	2311894	1	Shaft, Freespool	13	2312280	1	Gear, Pinion
2	2305097W	1	Piston, Freespool	14	2312269	1	Clutch, Dental
3	2305099W	1	Shifter Fork, Freespool	15	2304803W	1	Screw
4 *b	15862W	2	O-Ring	16	221717W	1	Nut, Hex
5 *b	212380	1	O-Ring	17 *b	2302311W	2	Cone, Bearing
7	2305096W	1	Spring	18 *b	30059W	2	Cup, Bearing
8 *c	283434W	1	Assy, Intermediate Gear	20	2312488	6	Capscrew
8A	283432W	1	. Bushing	21	296422W	6	Washer, Hard
8 *d	2313036	1	Assy, Intermediate Gear	*a	Apply Thread Lock 318702W to Threads		
8A	283432W	1	. Bushing		*b Included in Intermediate/Drum Shaft & Brake		
9	2302624W	1	Piston, Freespool Adjust		Assembly Rebuild Kit 2314660		
10 *b	159940W	1	O-Ring		*c Gear ratios 1 & 6		
11	2302625W	1	Housing, Freespool Adjust		*d Gear ratios 2 & 5		
12	2305956W	1	Shaft, Intermediate				

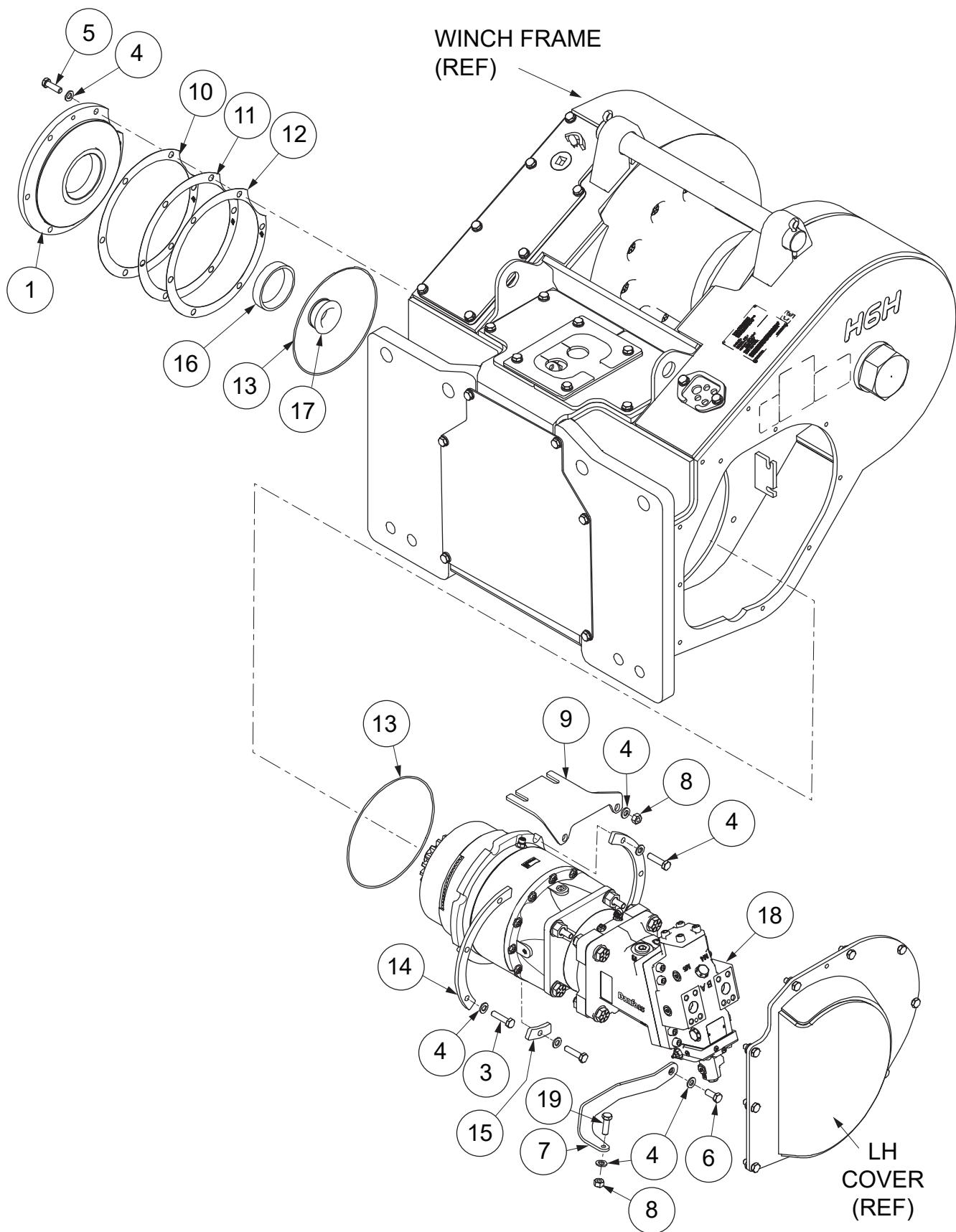
Drum Shaft

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	141674W	1	Adapter	18	2310891	10	Capscrew
2	53559W	10	Thimble, Tapered	19	141671W	1	Seal, Oil
3	*b 230406W	2	Bearing, Roller	20	2312064	1	Shaft, Drum
4	221577W	8	Capscrew	21	95977W	1	Gear, Drum
5	15158W	9	Washer	22	296422W	6	Washer
6	95978W	1	Retainer	23	2312486	6	Capscrew
7	*a 172808W	1	Spacer	24	172810W	1	Retainer
8	*b 15881W	1	O-Ring	25	*a 2312099	2	Nut
9	*b 44547W	1	Seal, Oil	26	2312100	1	Drum, H6H
10	*b 133927W	1	Ring, Piston Seal	27	Y433070.45	1	Fitting
11	*b 90263W	1	O-Ring				
12	175648W	AR	Shim, .020"				
13	175647W	AR	Shim, .007"				
14	175646W	AR	Shim, .005"				
15	2301783W	1	Keeper, Ferrule				
16	16829W	1	Capscrew				

*a Requires Sealant 358674W
*b Included in Intermediate/Drum Shaft & Brake Assembly Rebuild Kit 2314660

Motor Shaft Group

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Motor Shaft Group

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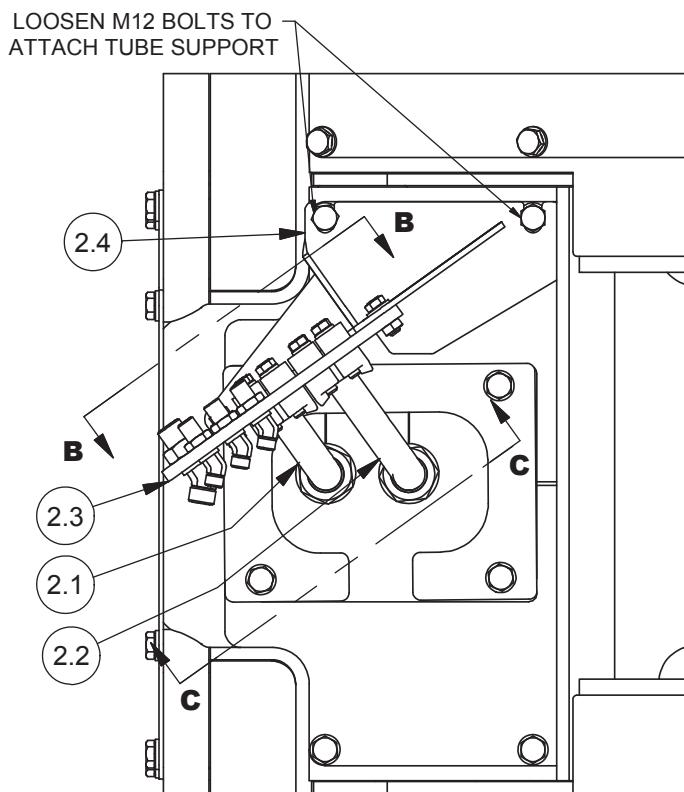
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
	2311819		Motor Shaft Group					
1	2311857	1	. Cover, Bearing	14	2311917	2	. Plate, Clamp	
3	2312488	7	. Capscrew	15	2311918	1	. Plate, Clamp	
4	296422W	19	. Washer	16	*b	2300668W	1	. Cup, Bearing
5	2312487	6	. Capscrew	17	*b	2300669W	1	. Cone, Bearing
6	293645W	1	. Capscrew	18	---	1	. Assy, Motor Shaft (See p. 60-63)	
7	*c 2312036	1	. Bracket, Motor Support	19	293647W	1	. Capscrew	
	*d 2316491	1	. Bracket, Motor Support					
8	292656W	3	. Nut					
9	2312018	1	. Plate, Manifold Bracket					
10	2312061	AR	. Shim .020"		*a	Included in Motor, Reducer & Brake Assembly		
11	2312059	AR	. Shim .005"			Rebuild Kit 2314659		
12	2312060	AR	. Shim .007"		*b	Included in Intermediate/Drum Shaft & Brake		
13	*a 203564	2	. O-Ring			Assembly Rebuild Kit 2314660		
					*c	Last Used S/N 1713		
					*d	First Used S/N 1714		

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Section 3
Hydraulics/Electrical/Controls

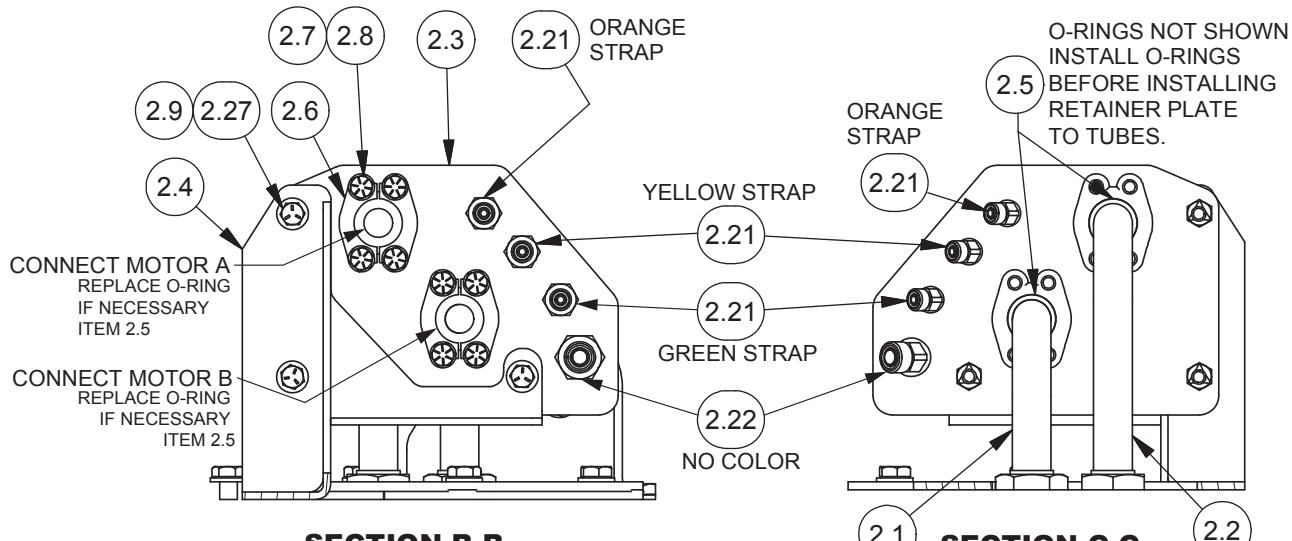
Hydraulic Installation

Caterpillar D6T (H6HT**C71)



WINCH CONNECTIONS - TOP VIEW

HOSES NOT SHOWN FOR CLARITY



SECTION B-B

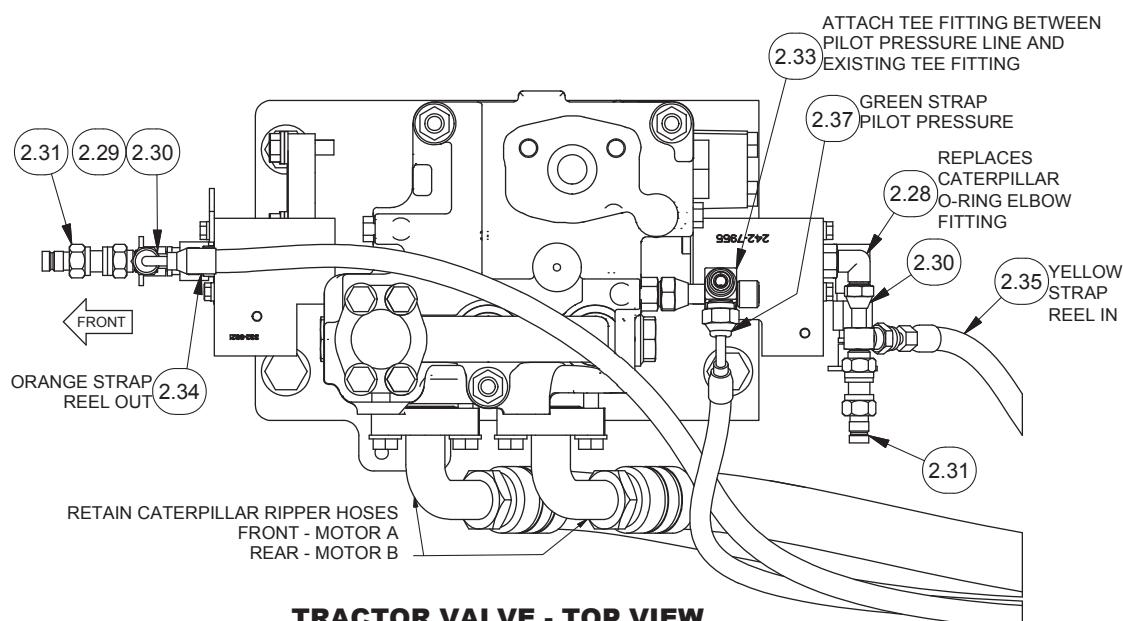
SECTION C-C

CONNECT HOSES AS SHOWN

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.1	2314753	1	Tube Assy	2.7	R13812514	8	Washer, Lock
2.2	2314754	1	Tube Assy	2.8	R13801813	8	Capscrew
2.3	2314628	1	Tube Retainer Weldment	2.9	221767W	3	Hard Washer
2.4	2314627	1	Bracket Weldment, Tube	2.21	272-0348	3	Fitting
2.5	Y098629-214	4	O-Ring	2.22	272-0350	1	Fitting
2.6	215064	4	Clamp Half	2.27	16805W	3	Capscrew

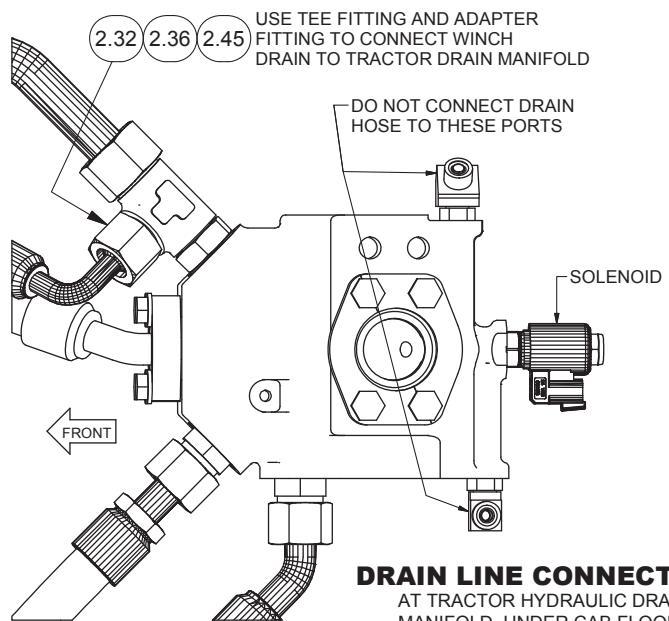
Hydraulic Installation

Caterpillar D6T (H6HT**C71)



TRACTOR VALVE - TOP VIEW

CONNECTIONS FOR: PILOT HOSE - GREEN; RO HOSE - ORANGE; RI HOSE - YELLOW



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
2.28	R833253	1	Fitting	2.34	*a	249072	1	Hose Assy
2.29	R833103	1	Fitting	2.35	*a	2312350	1	Hose Assy
2.30	236855	2	Fitting	2.36	*a	235536	1	Hose Assy
2.31	2307625W	2	Coupler	2.37	*a	2314696	1	Hose Assy
2.32	R834055	1	Fitting	2.45		2307958W	1	Fitting
2.33	231955	1	Fitting					

*a Included in Hose Kit 2314769

Hydraulic Installation

Caterpillar D6K2 T4f (C805)

HYDRAULIC MANIFOLD TO DOZER CHART		
MACHINE MODEL	ENGRG MODEL	SERIAL NUMBER
D6K LGP	TT719H	JTR03000-UP
D6K XL	TT720H	DIR03000-UP
D6K LGP	TT719G	EL703000-UP
D6K XL	TT720G	MGM03000-UP
D6K LGP	TT797H	7P602000-UP
D6K XL	TT796H	6S602000-UP
D6K LGP	TT797G	ZLJ02000-UP
D6K XL	TT796G	MP702000-UP
D4 LGP	TA096H	FPR00350-UP
D4 XL	TA095H	AX900300-UP
D4 LGP	TA096G	JPH00350-UP
D4 XL	TA095G	RKR00300-UP
D4 LGP	TA094H	MTT00300-UP
D4 XL	TA093H	STT00350-UP
D4 LGP	TA094G	H3C00300-UP
D4 XL	TA093G	K3G00350-UP

HYDRAULIC INSTALLATION NOTE

- 1 USE FIGURE B FOR TRACTOR MODELS UP TO S/N 3000.
- 2 USE FIGURE C FOR S/N's AFTER 3000.

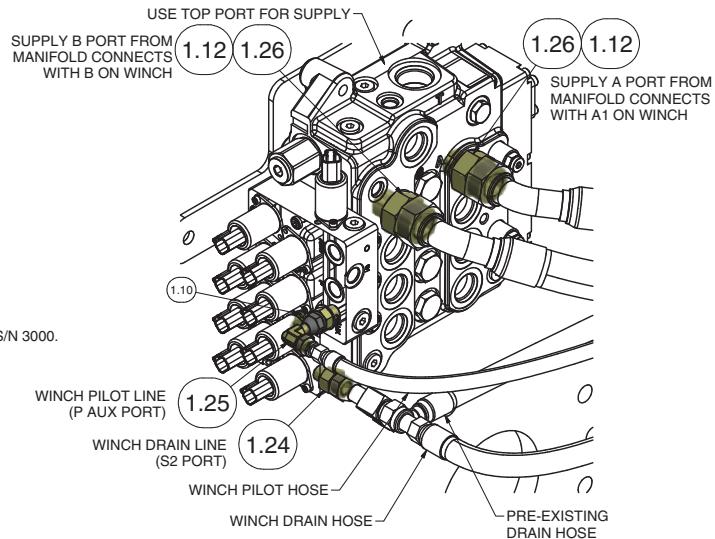


Figure C:
Items 1.24 - 1.26 only used for
Post - S/N 3000 installations

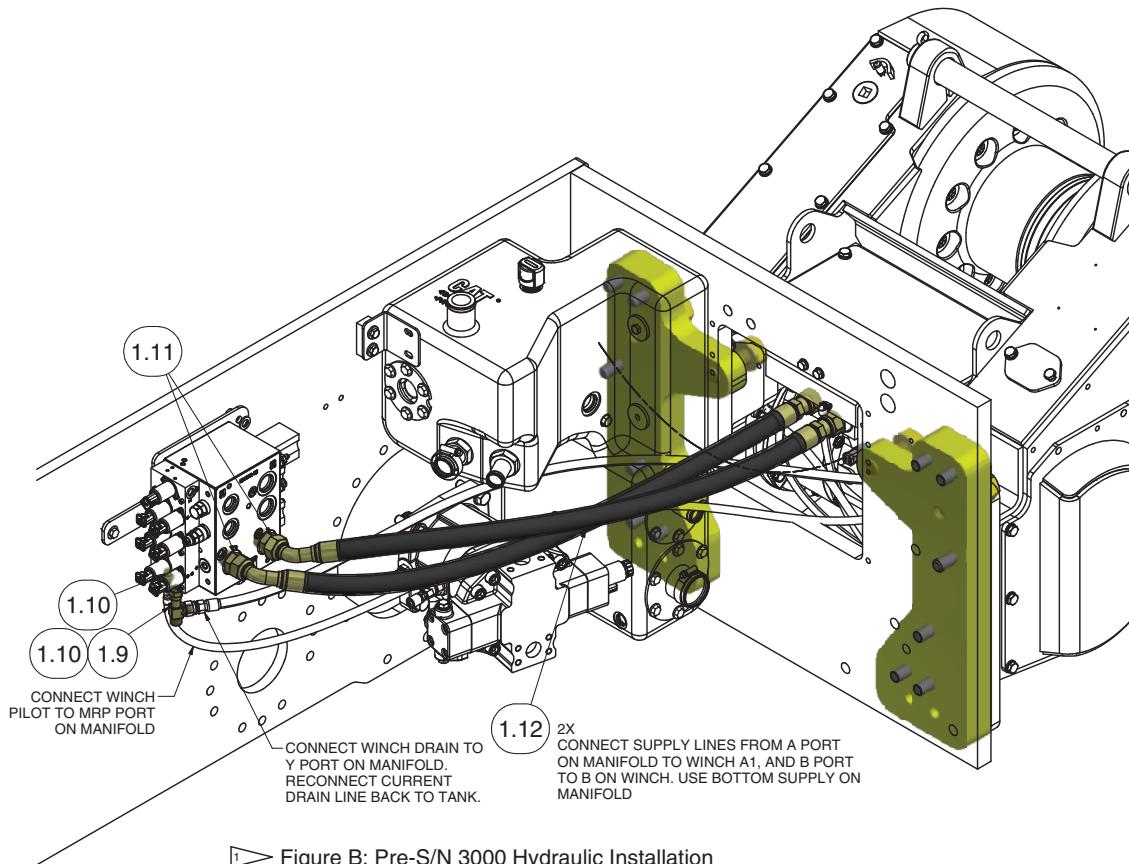


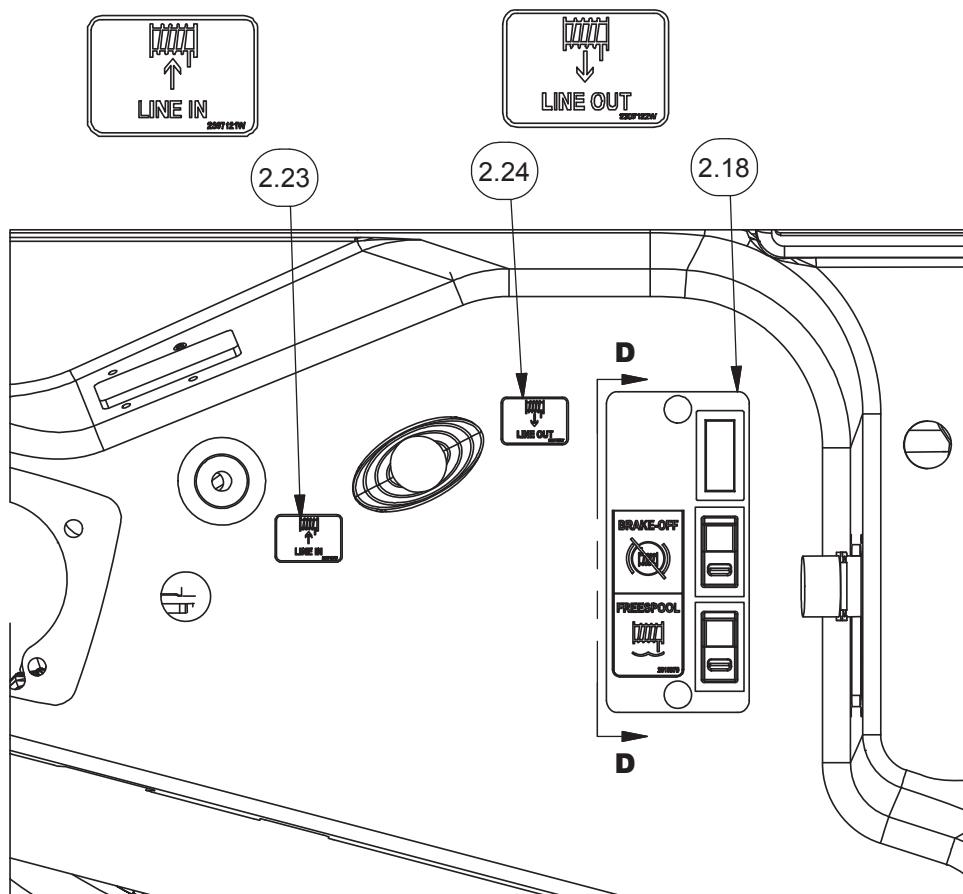
Figure B: Pre-S/N 3000 Hydraulic Installation

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.9	R834052	1	Fitting	1.24	R833112	1	Fitting
1.10	R833103	2	Fitting	1.25	R833800	1	Fitting
1.11	231444	2	Fitting	1.26	231450	2	Fitting
1.12 *a	2317550	2	Hose Assembly				

*a Included in Hose Kit 2317932

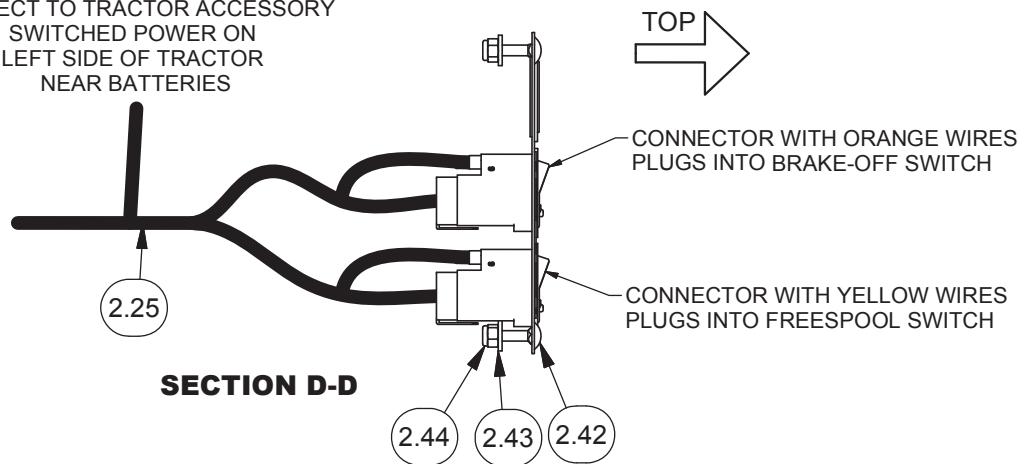
Winch Controls

Caterpillar D6T (H6HT**C71)



WINCH CONTROLS

CONNECT TO TRACTOR ACCESSORY
SWITCHED POWER ON
LEFT SIDE OF TRACTOR
NEAR BATTERIES



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.18	2314655	1	Switch Panel Assy (57)	2.42	220000W	2	Bolt
2.23	2307121W	1	Decal	2.43	221763W	2	Hard Washer
2.24	2307122W	1	Decal	2.44	R13811189	2	Locknut
2.25	2314654	1	Wire Harness				

Winch Controls

Caterpillar D6K2 T4f (C805)

Page 1 of 2

PLUG WIRE HARNESS
POWER PLUG INTO
TRACTOR POWER PLUG
WITH THE ORANGE WIRE.

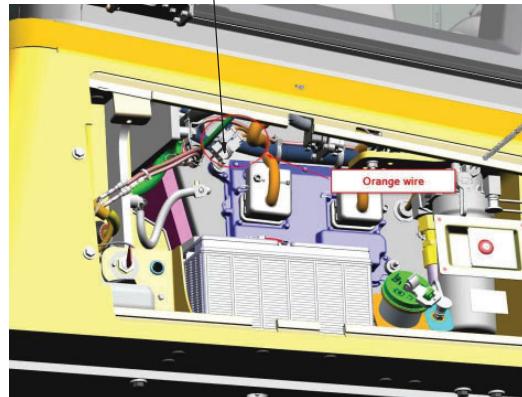
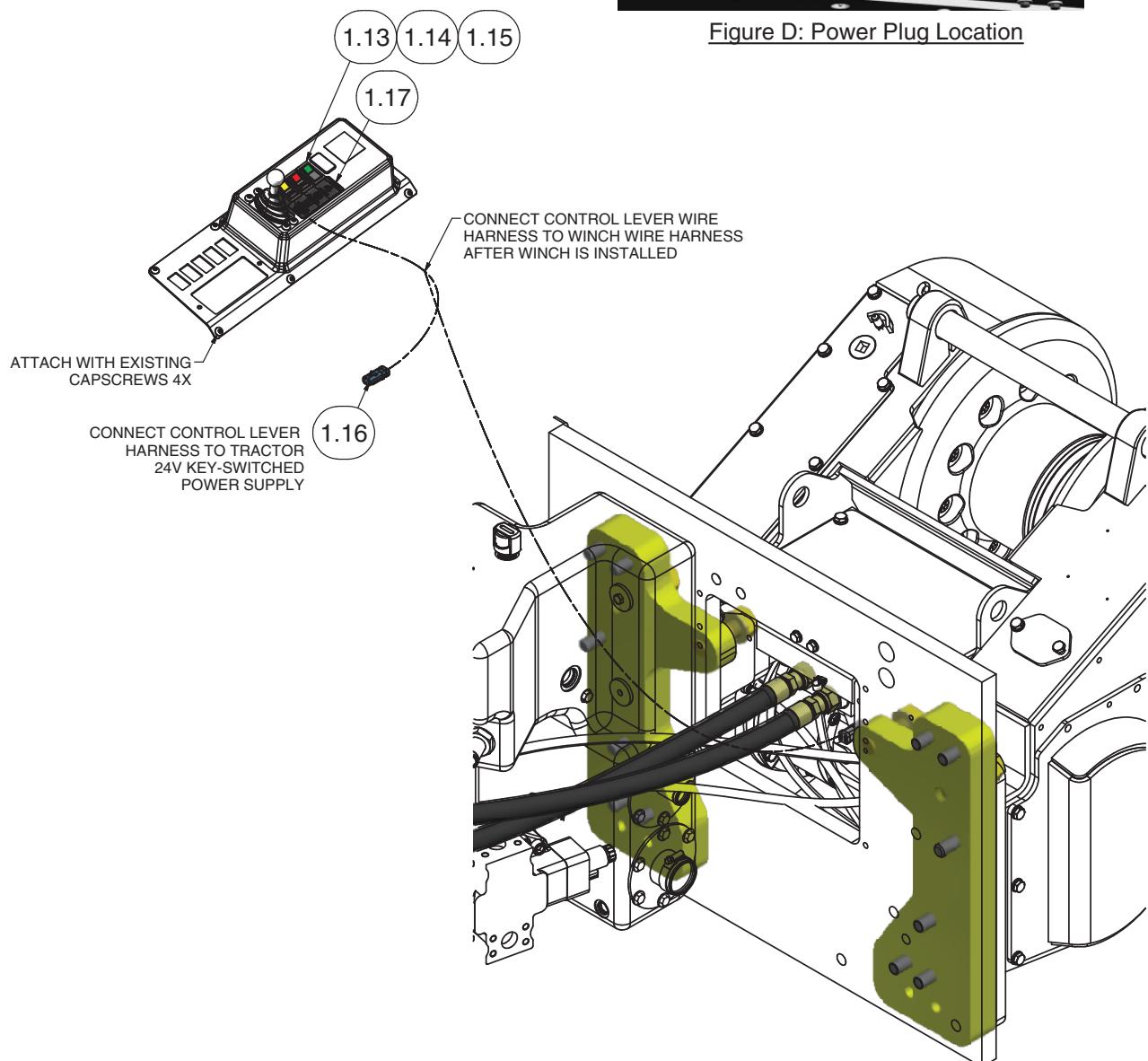


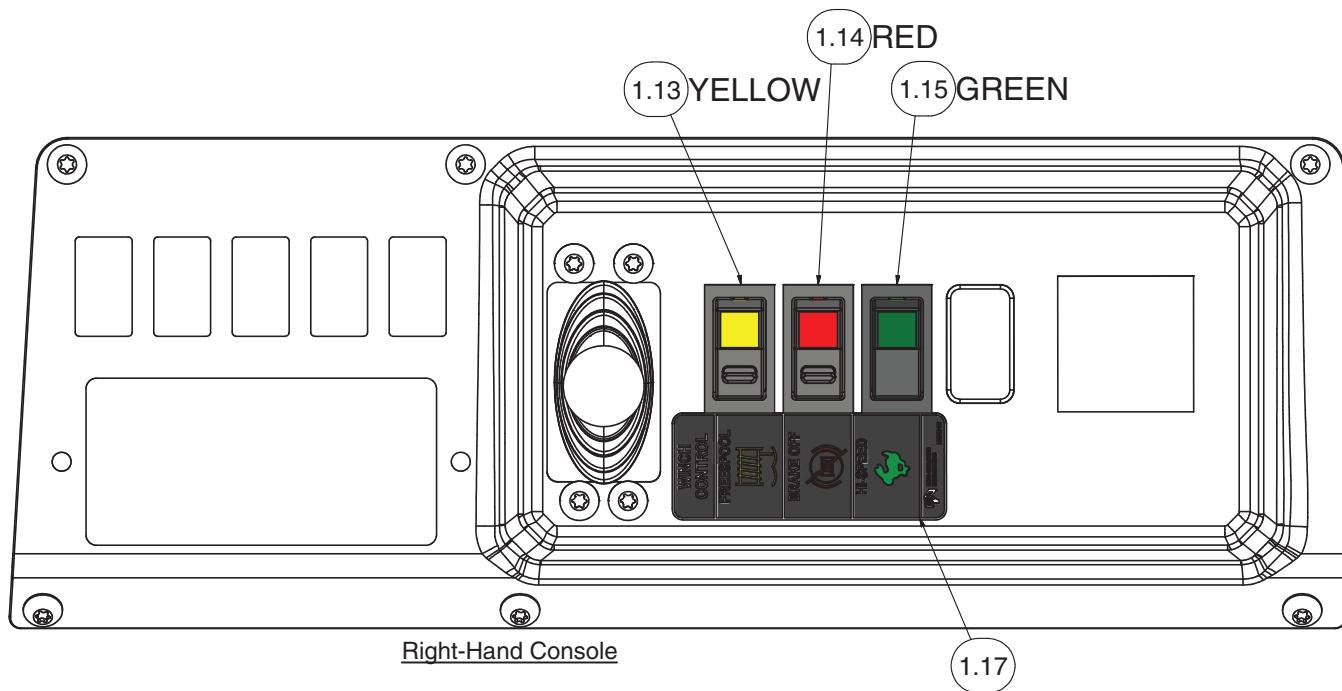
Figure D: Power Plug Location



Winch Controls

Caterpillar D6K2 T4f (C805)

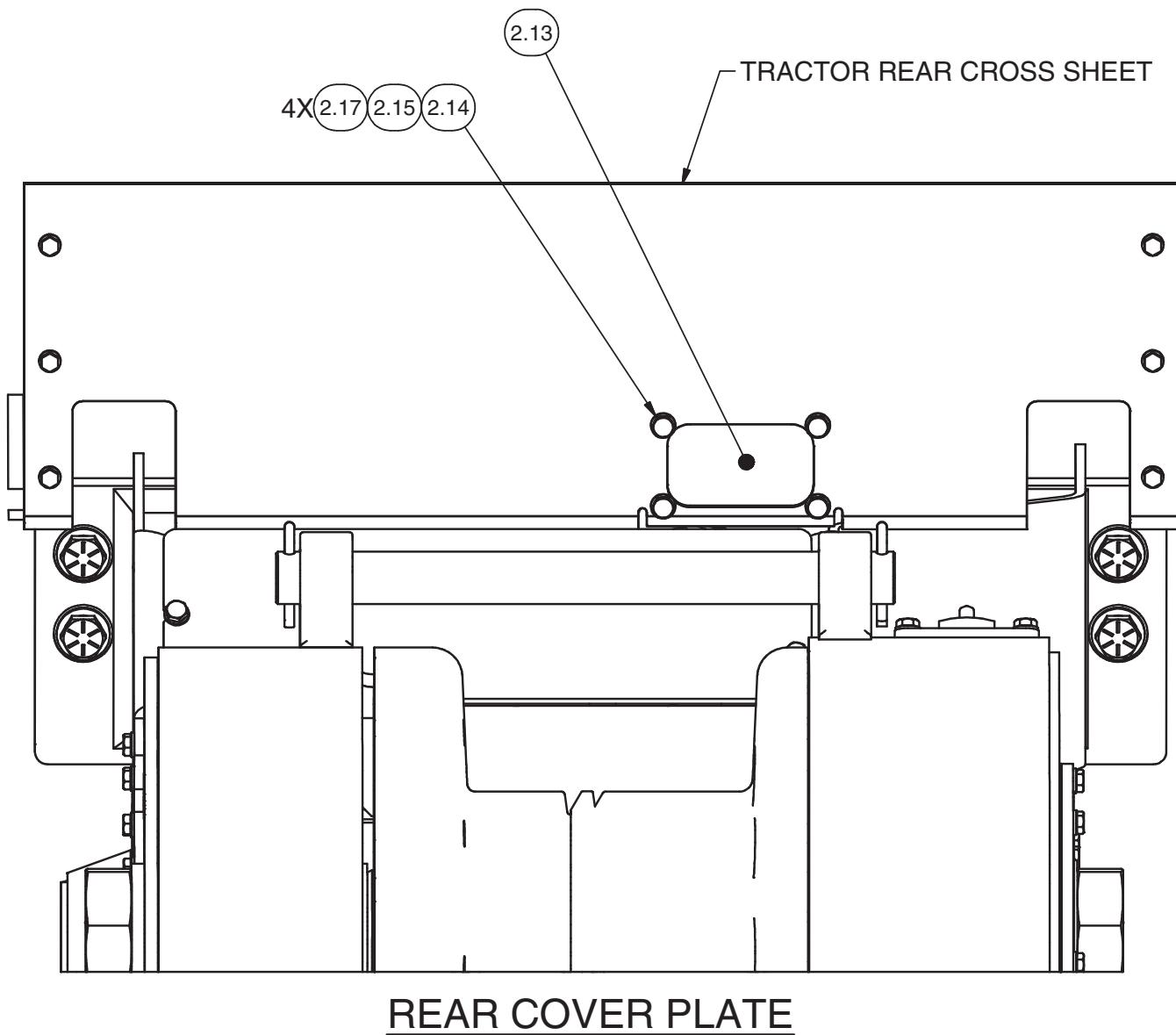
Page 2 of 2



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.13	2310013	1	Switch Assembly (Yellow)	1.16	2317691	1	Harness - Wire, Console
1.14	2310504	1	Switch Assembly (Red)	1.17	2307054W	1	Decal, Switch Panel
1.15	2311072	1	Switch Assembly (Green)				

Rear Cover Plate Installation

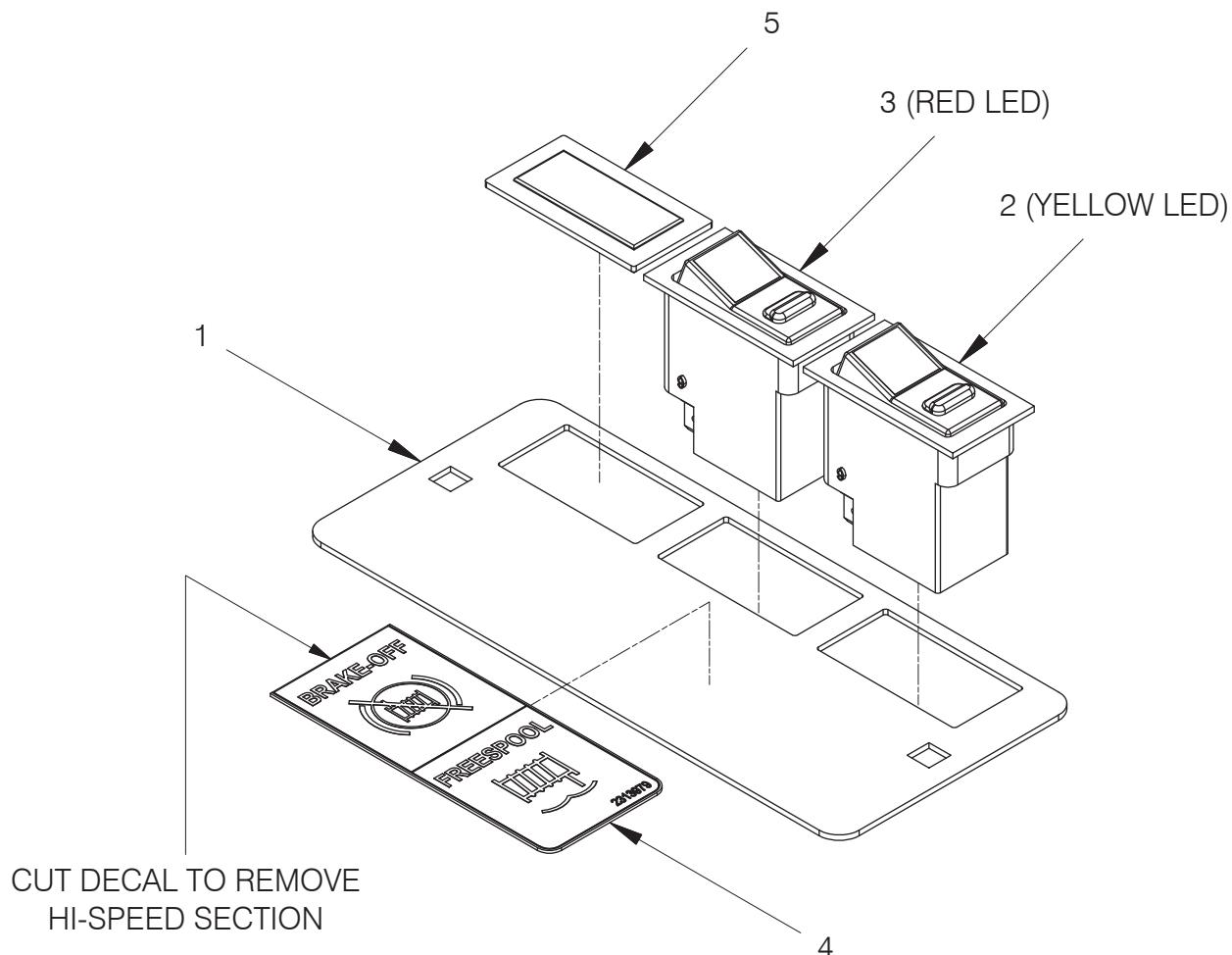
Caterpillar D6T (H6HT**C71)



REAR COVER PLATE

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.13	2314637	1	Plate - Cover	2.15	293646W	4	Capscrew
2.14	296422W	8	Washer	2.17	292656W	4	Nut

Switch Panel Assy
FREESPOOL & BRAKE-OFF
Caterpillar D6T (C71)

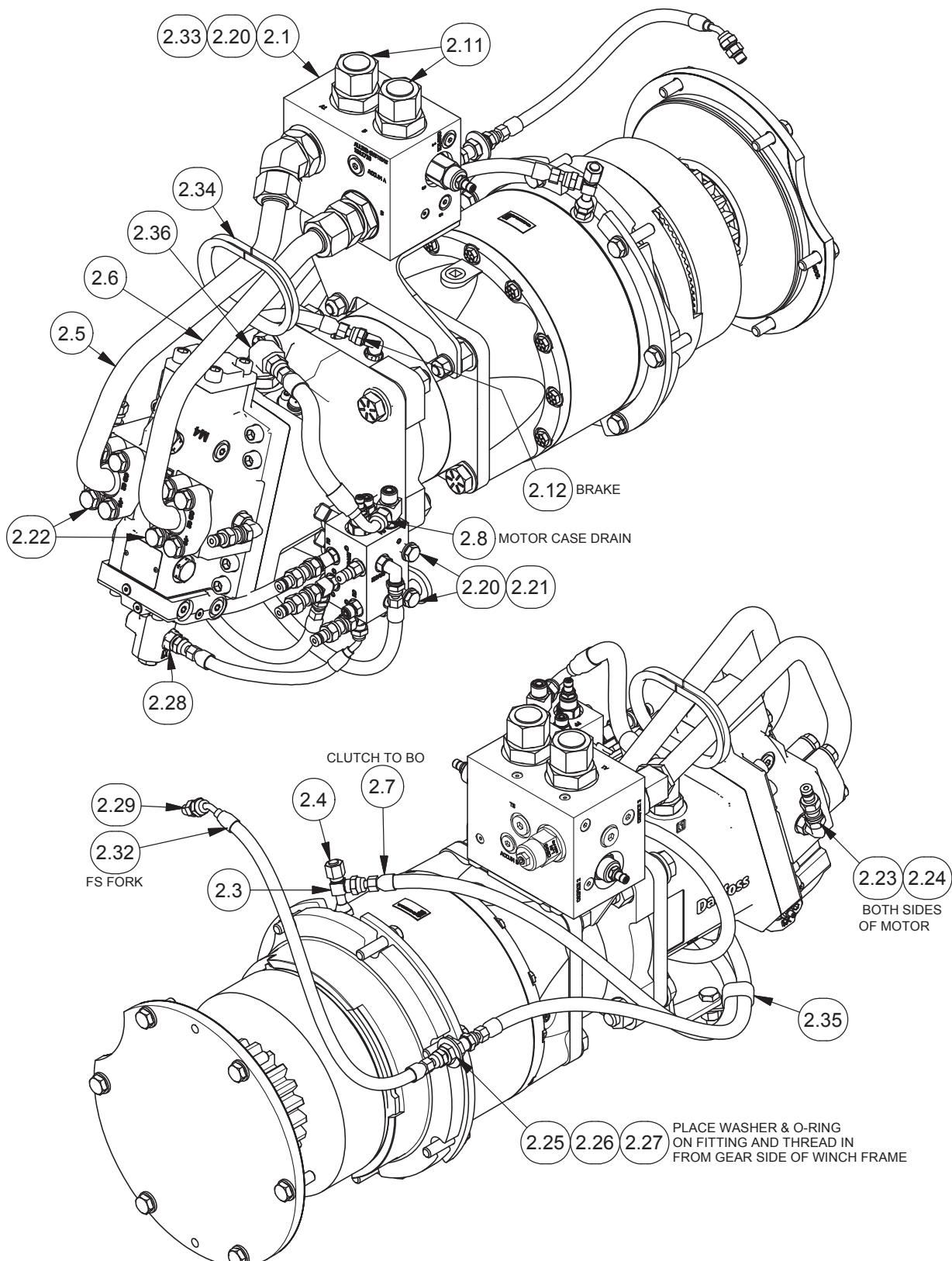


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314655	1	Assy, Switch Panel; FREESPOOL & BRAKE-OFF				
1	2313136	1	. Plate, Switch Mounting	4	2313979	1	. Decal, Switch Panel; FREE SPOOL, BRAKE-OFF & HI- SPEED
2	2310013	1	. Assy, Switch; 24V, Yellow LED				. Cover, Blank
3	2310504	1	. Assy, Switch; 24V, Red LED	5	234509	1	

Internal Hydraulic Group

Caterpillar D6T (H6HT**C71)

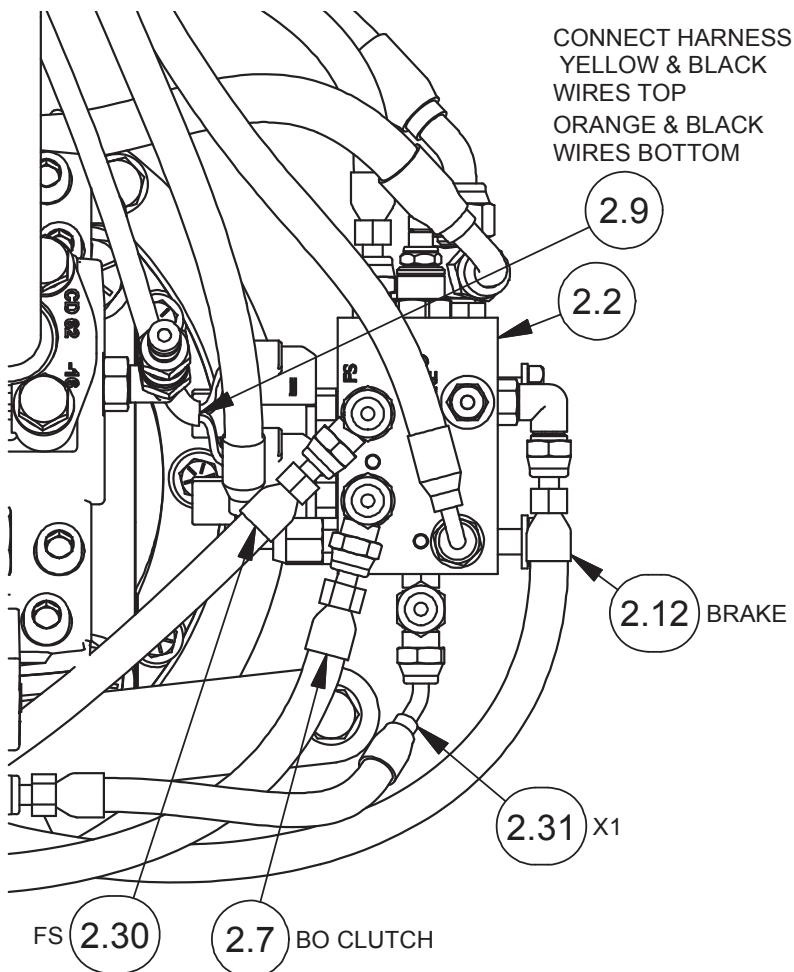
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Internal Hydraulic Group

Caterpillar D6T (H6HT**C71)

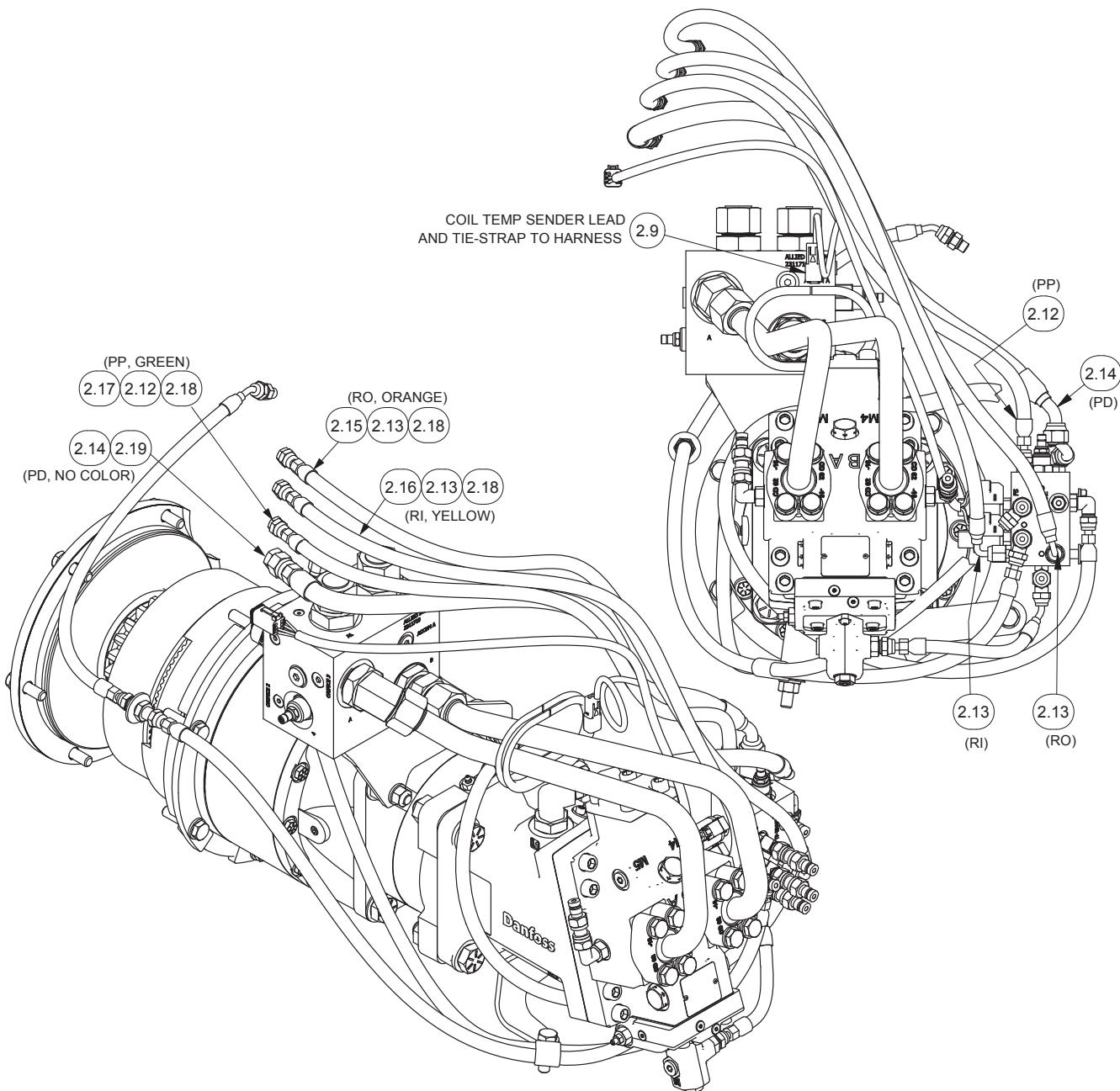
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Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.1	2314691	1	Manifold Assy (See p. 115)	2.23	2307625W	2	Fitting
2.2	2313617	1	Manifold Assy (See p. 110)	2.24	R833253	2	Fitting
2.3	236855	1	Fitting	2.25	R834100	1	Fitting
2.4	232984	1	Fitting	2.26	15178W	1	Flat Washer
2.5 *a	2314690	1	Tube Assy - Motor A	2.27	211564	1	O-Ring
*b	2316108	1	Tube Assy - Motor A	2.28	R833103	1	Fitting
2.6 *a	2314162	1	Tube Assy - Motor B	2.29	231439	1	Fitting
*b	2316109	1	Tube Assy - Motor B	2.30 *c	2312350	1	Hose Assy
2.7 *c	2312351	1	Hose Assy	2.31 *a*c	2312878	1	Hose Assy
2.8 *c	R12104	1	Hose Assy	*b*c	2313639	1	Hose Assy
2.9	2314664	1	Wire Harness	2.32 *c	2312212	1	Hose Assy
2.11	231820	2	Fitting	2.33	15176W	2	Flat Washer
	232383	1	. O-Ring	2.34	24257	1'	Trim, Edge
2.12 *c	2312353	2	Hose Assy	2.35	2312628	1	Clamp
2.20	Y09C-M1025	4	Capscrew	2.36	R833260	1	Fitting
2.21	296420W	2	Hard Washer	*a		Last Used S/N 1713	
2.22 *a	229448	2	Kit, Split Flange	*b		First Used S/N 1714	
*b	592255	2	Kit, Split Flange	*c		Included in Hose Kit 2314769	

Attaching Hydraulics

Caterpillar D6T (H6HT**C71)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.9	2314664	1	Wire Harness	2.16	242597	1	Cable Tie
2.12 *a	2312353	2	Hose Assy	2.17	242598	1	Cable Tie
2.13 *a	2314739	2	Hose Assy	2.18	R834200	3	Fitting
2.14 *a	2314743	1	Hose Assy	2.19	232960	1	Fitting
2.15	242596	1	Cable Tie				

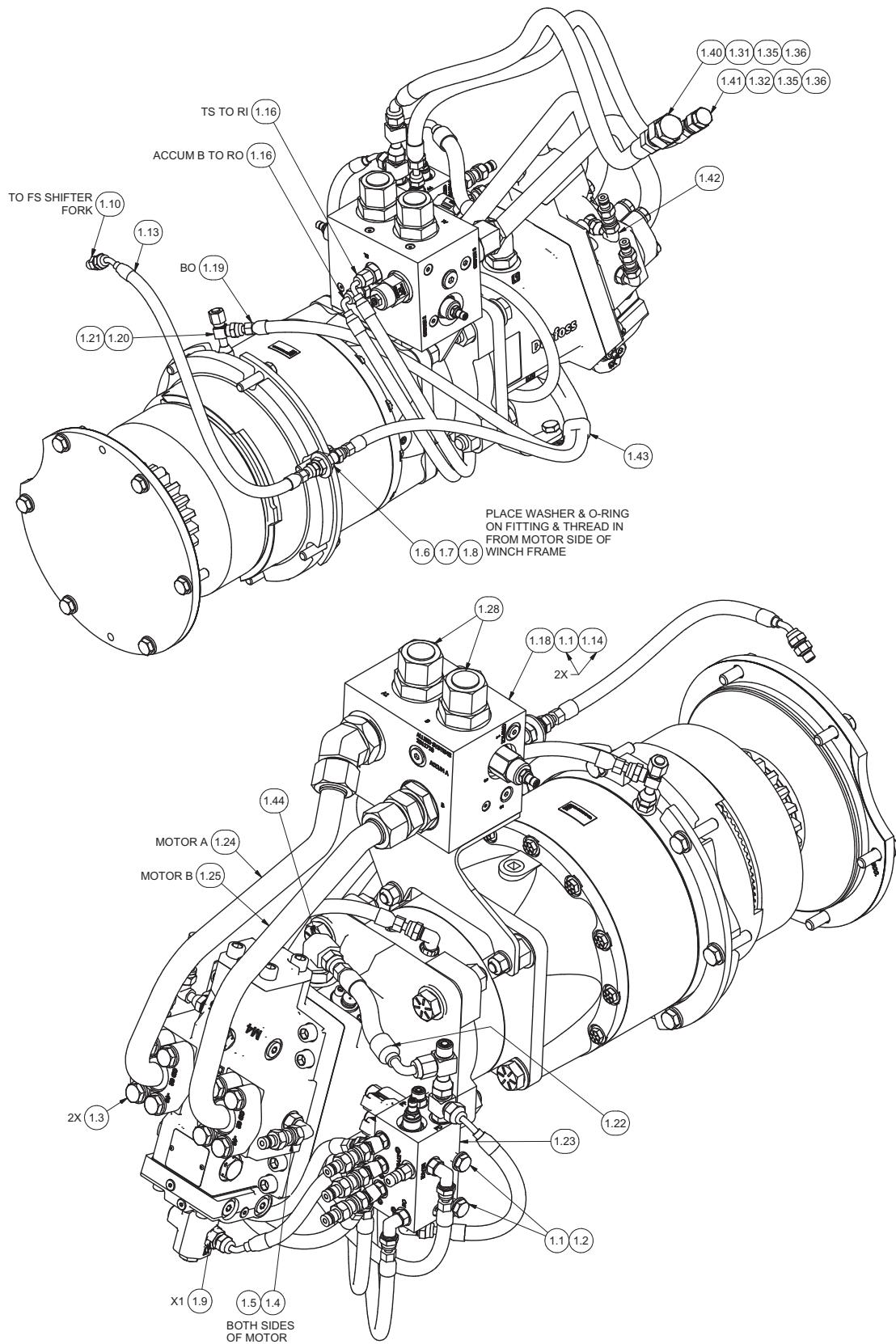
*a Included in Hose Kit 2314769

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Internal Hydraulic Group

Caterpillar D6T (H6HT***C712*)

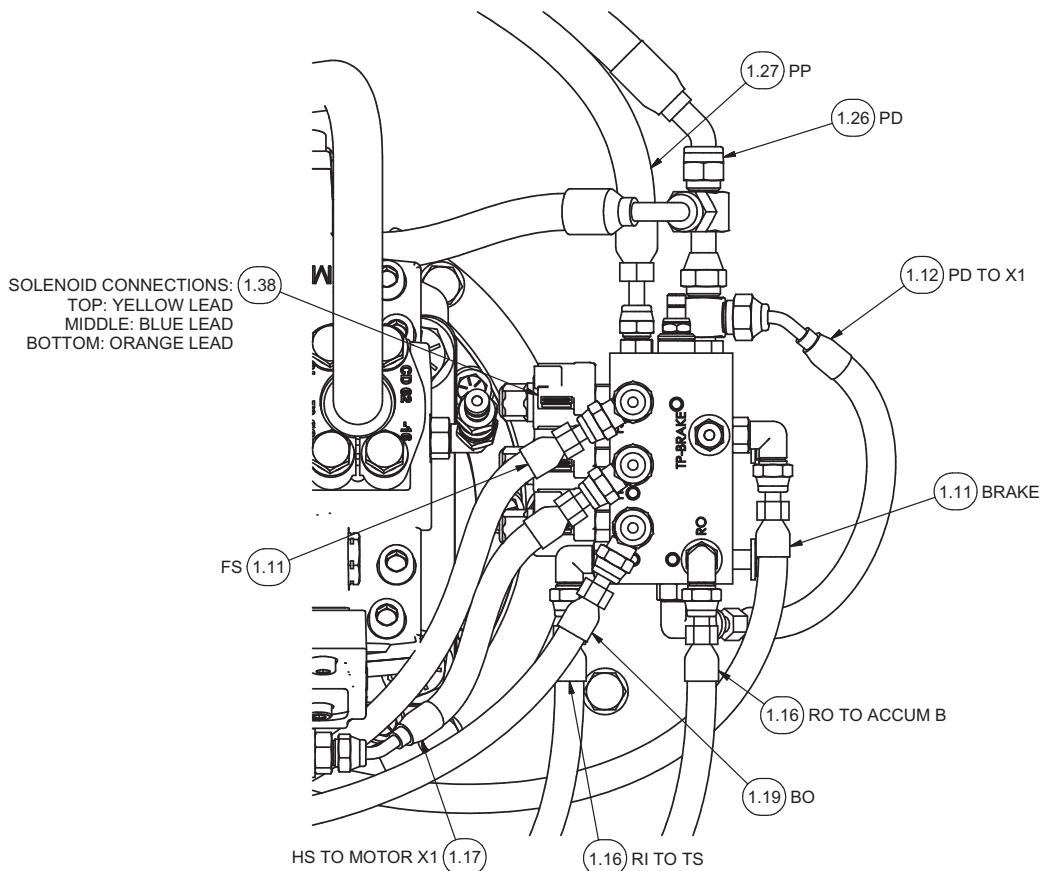
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Internal Hydraulic Group

Caterpillar D6T (H6HT***C712*)

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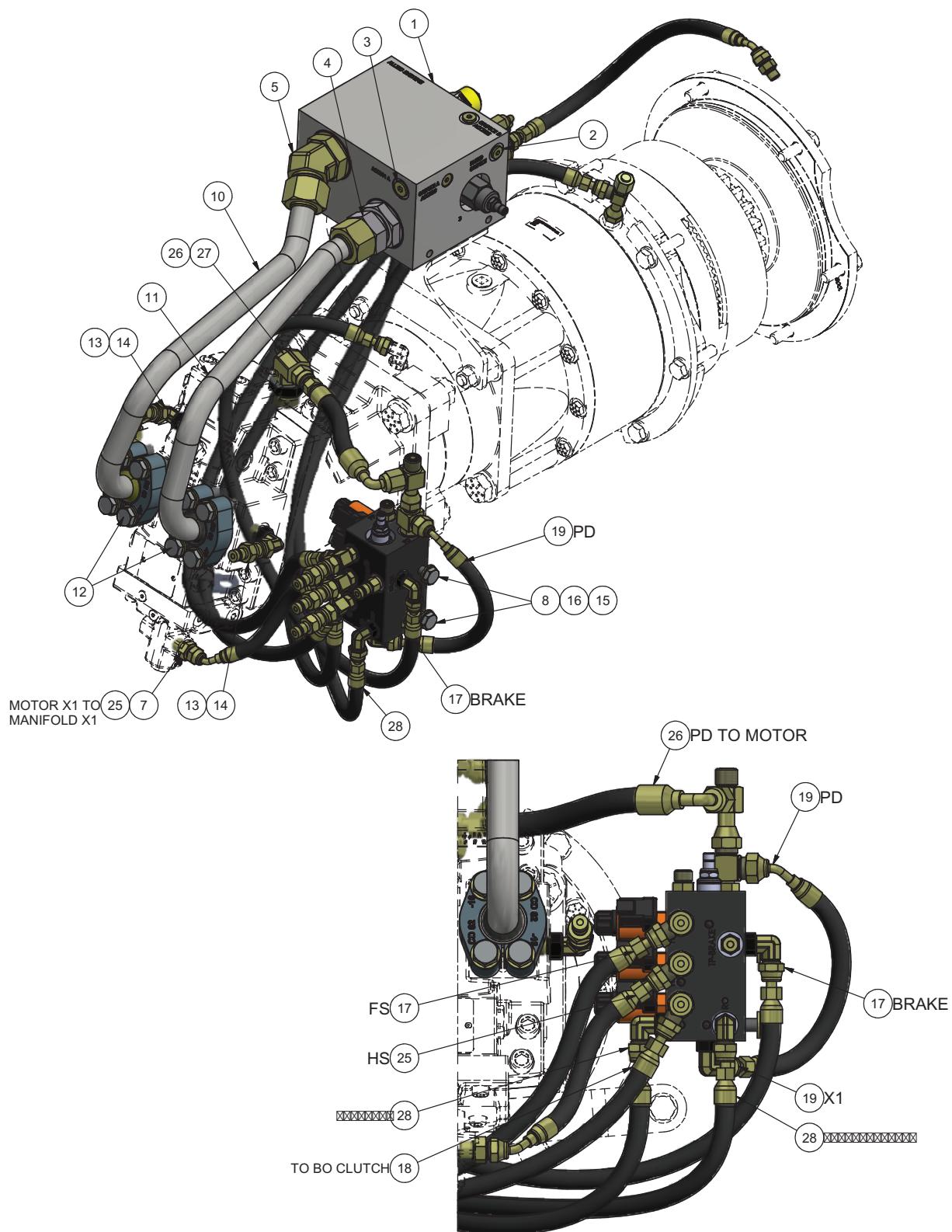
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew	1.22	*a 2312358	1	Hose Assembly
1.2	296420W	2	Washer	1.23	2313960	1	Manifold Assy, Control (See p. 113)
1.3	592255	2	Kit, Split Flange	1.24	2316108	1	Tube Assembly
1.4	2307625W	3	Fitting	1.25	2316109	1	Tube Assembly
1.5	R833253	2	Fitting	1.26 *a	2316736	1	Hose Assembly
1.6	R834100	1	Fitting	1.27 *a	2316737	1	Hose Assembly
1.7	15178W	1	Washer	1.28	231820	2	Fitting
1.8	211564	1	O-Ring		232383	1	. O-Ring
1.9	R833103	2	Fitting	1.31	2306151W	1	Label - T
1.10	231439	1	Fitting	1.32	2307241W	1	Label - Pilot
1.11 *a	2312350	2	Hose Assembly	1.35	R12577880	3'	Sleeve, Cordura
1.12 *a	2313844	1	Hose Assembly	1.36	129563W	8	Cable Tie
1.13 *a	2312212	1	Hose Assembly	1.38	2317048	1	Harness - Wire
1.14	221767W	2	Washer	1.40	R834204	1	Fitting
1.16 *a	2315641	2	Hose Assembly	1.41	232960	1	Fitting
1.17 *a	2313639	1	Hose Assembly	1.42	R833800	1	Fitting
1.18	2314727	1	Assembly - Manifold (See p. 114)	1.43	2312628	1	Clamp
1.19 *a	2312351	1	Hose Assembly	1.44	R833260	1	Fitting
1.20	236855	1	Fitting				
1.21	232984	1	Fitting				

*a Included in Hose Kit 2317931

Internal Hydraulic Group

Caterpillar D6K2 T4f (H6HT*DC805)

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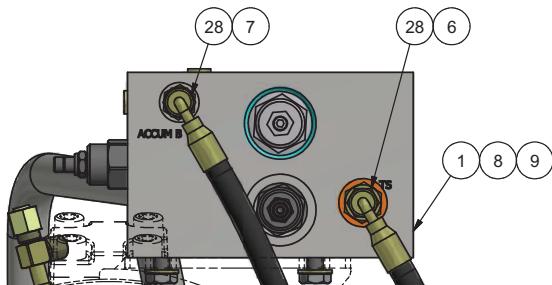
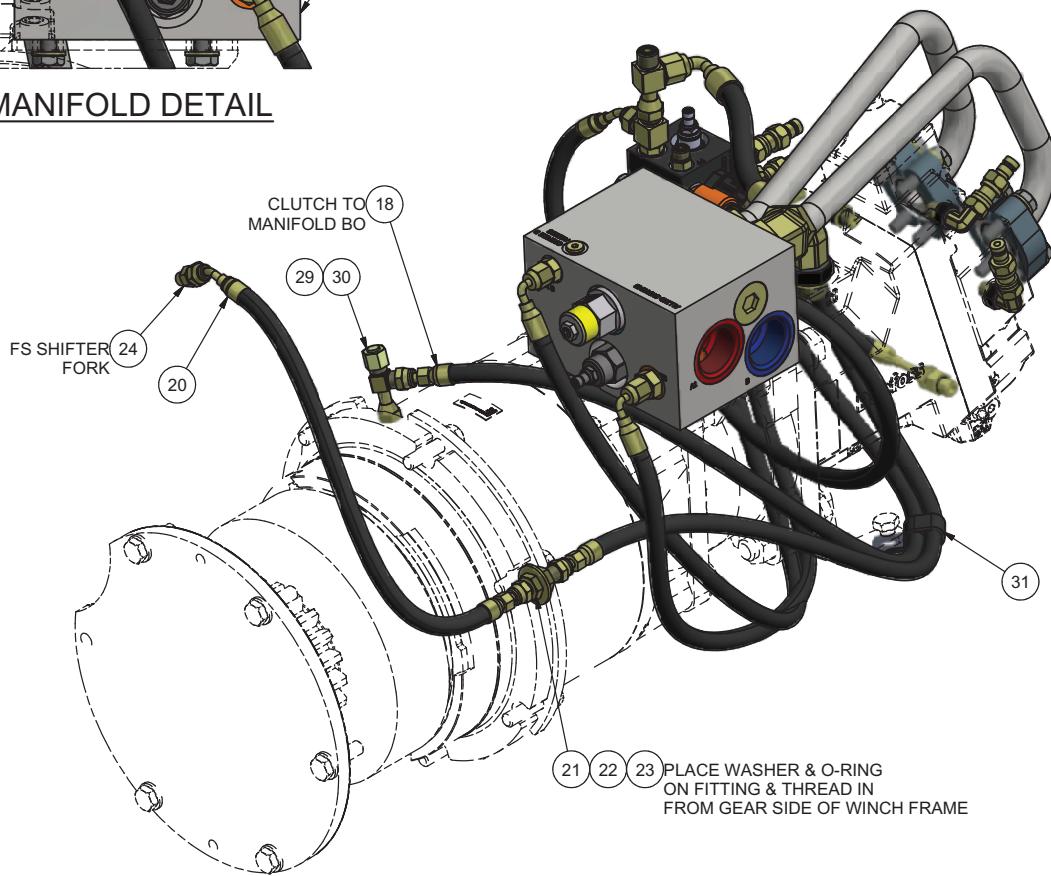


CONTROL MANIFOLD DETAIL

Internal Hydraulic Group

Caterpillar D6K2 T4f (H6HT*DC805)

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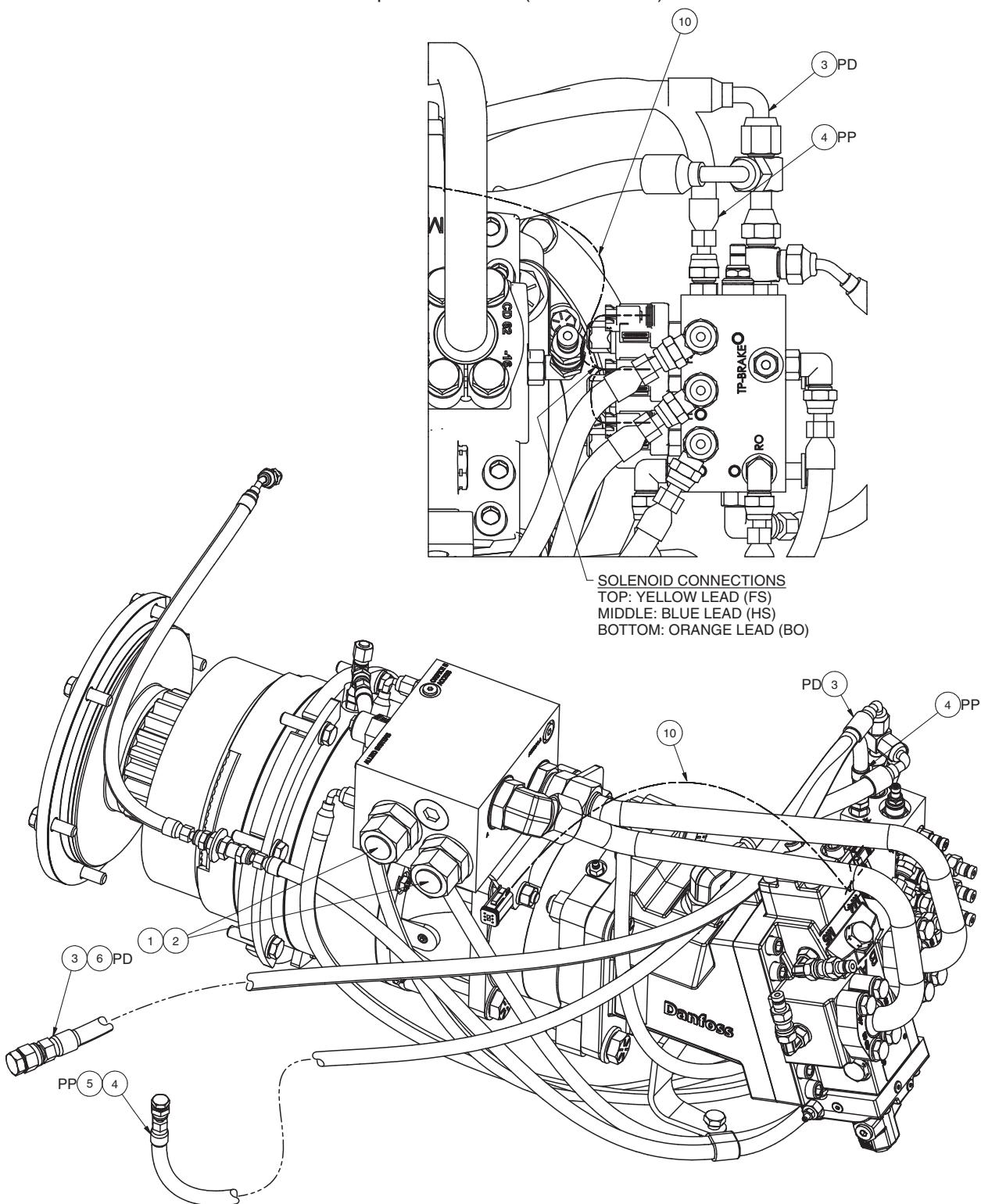
**MANIFOLD DETAIL**

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2312941	1	Manifold Assy, CBR(See p. 117)	18	*a 2312351	1	Hose Assembly
2	235387	1	Fitting	19	*a 2313844	1	Hose Assembly
3	229383	1	Fitting	20	*a 2312212	1	Hose Assembly
4	2313948	1	Fitting	21	R834100	1	Fitting
5	R833218	1	Fitting	22	15178W	1	Washer
6	R833104	1	Fitting	23	211564	1	O-Ring
7	R833103	2	Fitting	24	231439	1	Fitting
8	Y09C-M1025	4	Capscrew	25	*a 2313639	1	Hose Assembly
9	221767W	2	Washer	26	*a 2312358	1	Hose Assembly
10	2316108	1	Tube Assembly	27	R833260	1	Fitting
11	2316109	1	Tube Assembly	28	*a 2315641	2	Hose Assembly
12	592255	2	Kit, Split Flange	29	236855	1	Fitting
13	R833253	3	Fitting	30	232984	1	Fitting
14	2307625W	3	Fitting	31	2312628	1	Clamp
15	2313960	1	Control Manifold Assy (See p. 113)				
16	296420W	2	Washer				
17	*a 2312350	2	Hose Assembly				

*a Included in Hose Kit 2317932

Attaching Hydraulic Group

Caterpillar D6K2 T4f (H6HT*DC805)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	R833133	2	Fitting	7	2306151W	1	Label - T
2	231820	2	Fitting	8	2307241W	1	Label - Pilot
	232383	1	. O-Ring	9	129563W	5	Cable Tie
3 *a	2317676	1	Hose Assembly	10	2315725	1	Harness - Wire, Winch
4 *a	592575	1	Hose Assembly				
5	R834200	1	Fitting				
6	232960	1	Fitting				

*a Included in Hose Kit 2317932

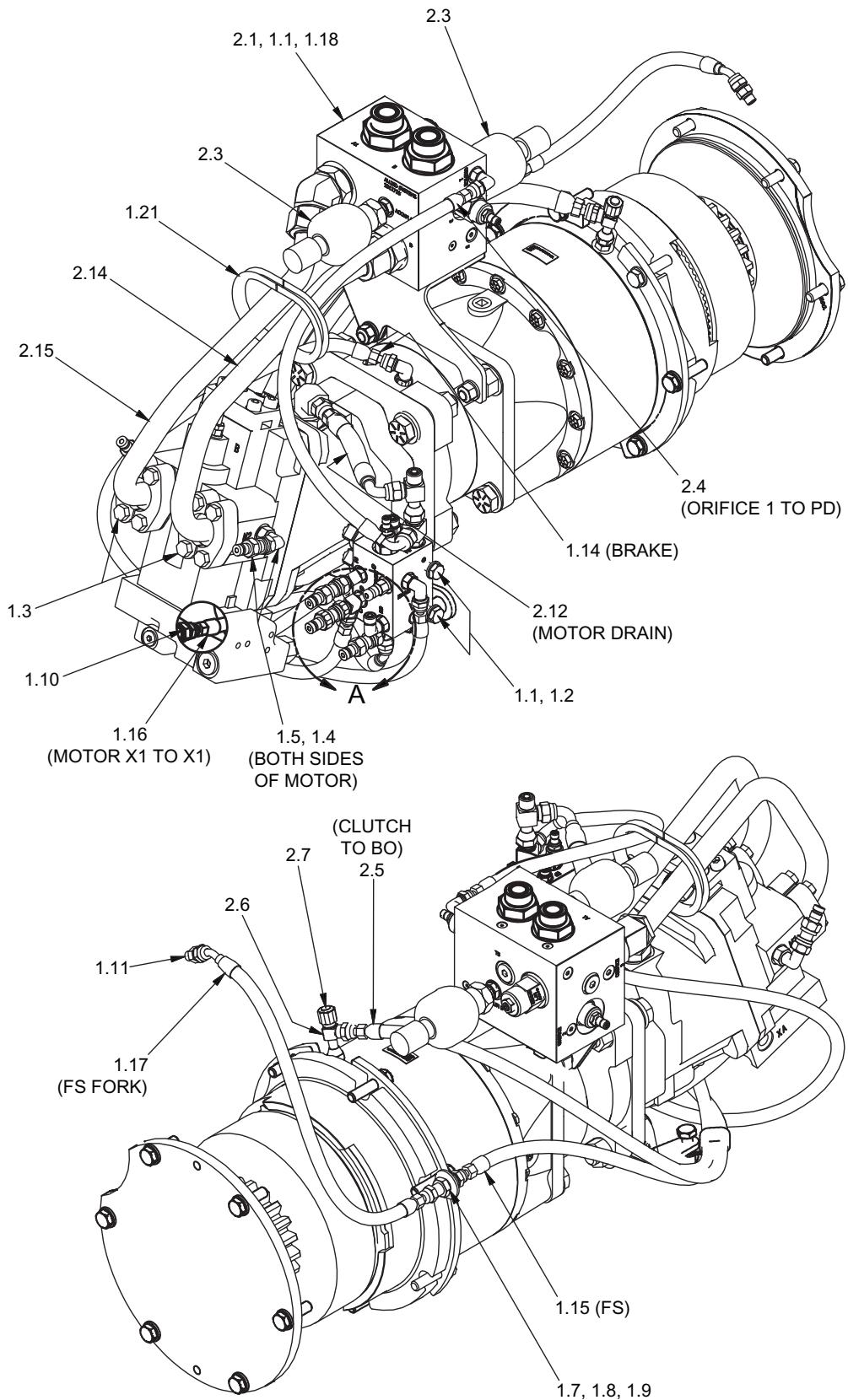
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Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

Last Used on S/N 1496

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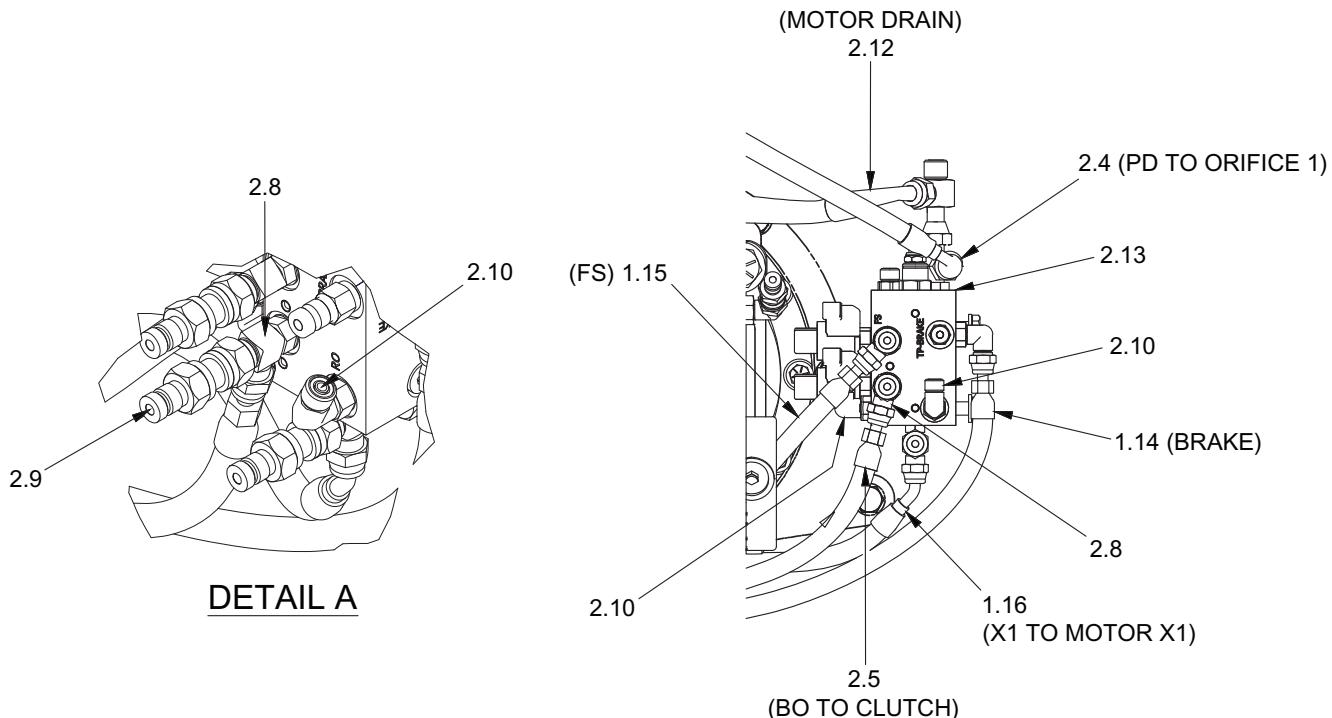


Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

Last Used on S/N 1496

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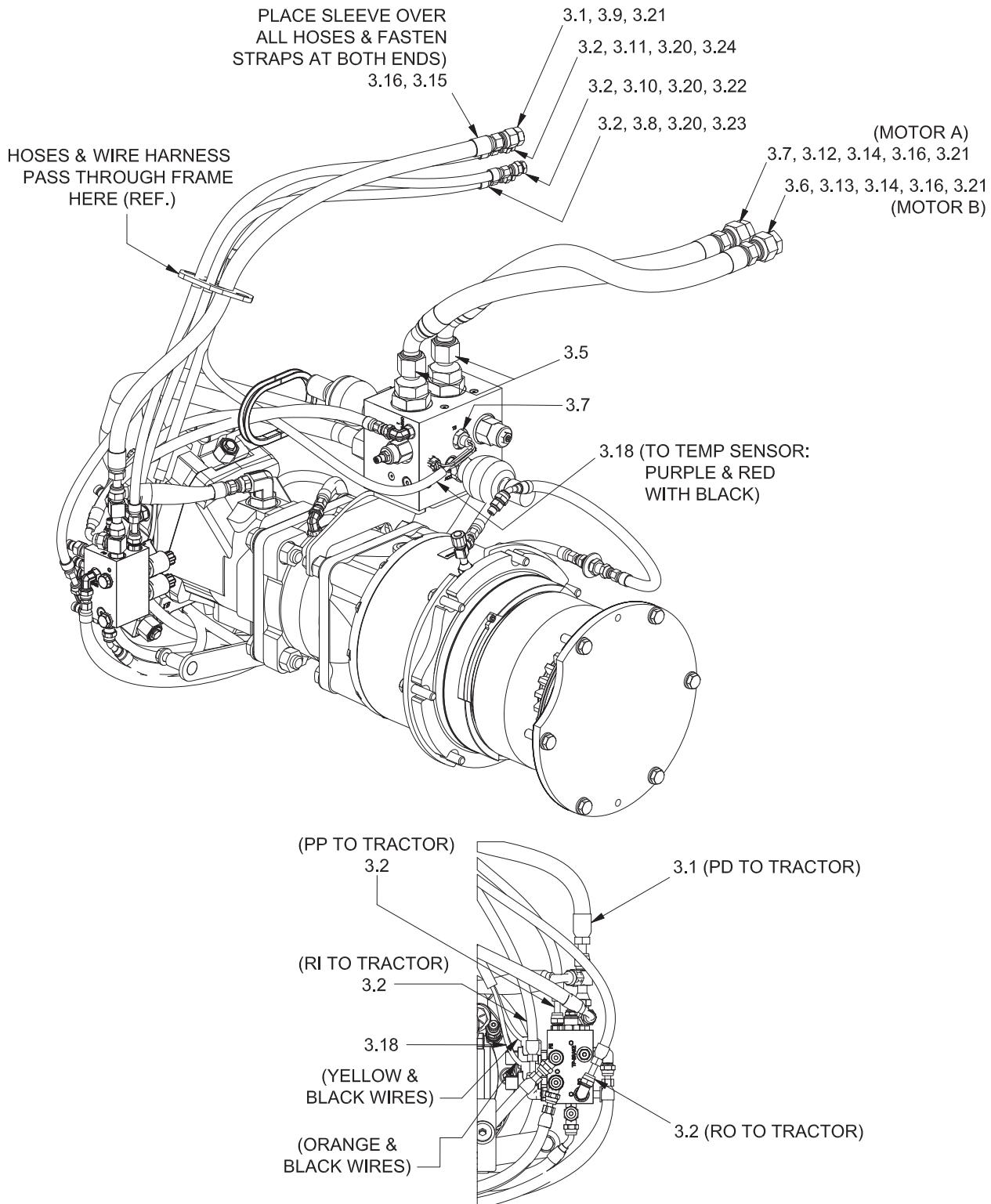
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew	2.1	2312816	1	Assy, Counterbalance Relief
1.2	296420W	2	Washer				Manifold (See p. 107)
1.3	229448	2	Kit, Split Flange	2.3	2312268	2	Accumulator
1.4	2307625W	2	Coupler, Quick Male	2.4 *a	2312357	1	Assy, Hose
1.5	R833253	2	Fitting	2.5 *a	2312351	1	Assy, Hose
1.7	R834100	1	Fitting	2.6	236855	1	Fitting
1.8	15178W	1	Washer	2.7	232984	1	Fitting
1.9	211564	1	O-Ring	2.8	R833400	1	Fitting
1.10	R833103	1	Fitting	2.9	2307625W	1	Coupler, Quick Male
1.11	231439	1	Fitting	2.10	R833251	2	Fitting
1.14 *a	2312353	1	Assy, Hose	2.12 *a	2312358	1	Assy, Hose
1.15 *a	2312350	1	Assy, Hose	2.13	2312908	1	Assy, Control Manifold
1.16 *a	2312878	1	Assy, Hose				(See p. 108)
1.17 *a	2312212	1	Assy, Hose	2.14	2312095	1	Assy, Tube - Motor B
1.18	15176W	2	Washer	2.15	2312069	1	Assy, Tube - Motor A
1.19	2312628	1	Clamp, Insulation				
1.21	24257	13 in.	Trim, Edge	*a	Included in Hose Kit 2314767		

External Hydraulic Group

Caterpillar D6N (H6HT**C81)

Last Used on S/N 1496

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CONTROL VALVE DETAIL

External Hydraulic Group

Caterpillar D6N (H6HT**C81)

Last Used on S/N 1496

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Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
3.1	*a 2315574	1	Assy, Hose	3.15	R12577882	1	Sleeve, Cordura
3.2	*a 2311572	3	Assy, Hose	3.16	129563W	1	Clamp, Strap
3.5	234191	2	Fitting	3.17	2307904W	1	Switch, Temperature
3.6	*a 2314423	1	Assy, Hose	3.18	2313137	1	Harness, Winch Wire
3.7	*a 2314422	1	Assy, Hose	3.20	R834200	3	Fitting
3.8	2307239W	1	Label, RI	3.21	232960	3	Fitting
3.9	2306151W	2	Label, T	3.22	242596	1	Tie, Cable (Orange)
3.10	2307238W	1	Label, RO	3.23	242597	1	Tie, Cable (Yellow)
3.11	2307241W	2	Label, Pilot	3.24	242598	1	Tie, Cable (Green)
3.12	2310919	1	Label, Motor A				
3.13	2310920	1	Label, Motor B				
3.14	R12577880	1	Sleeve, Cordura				

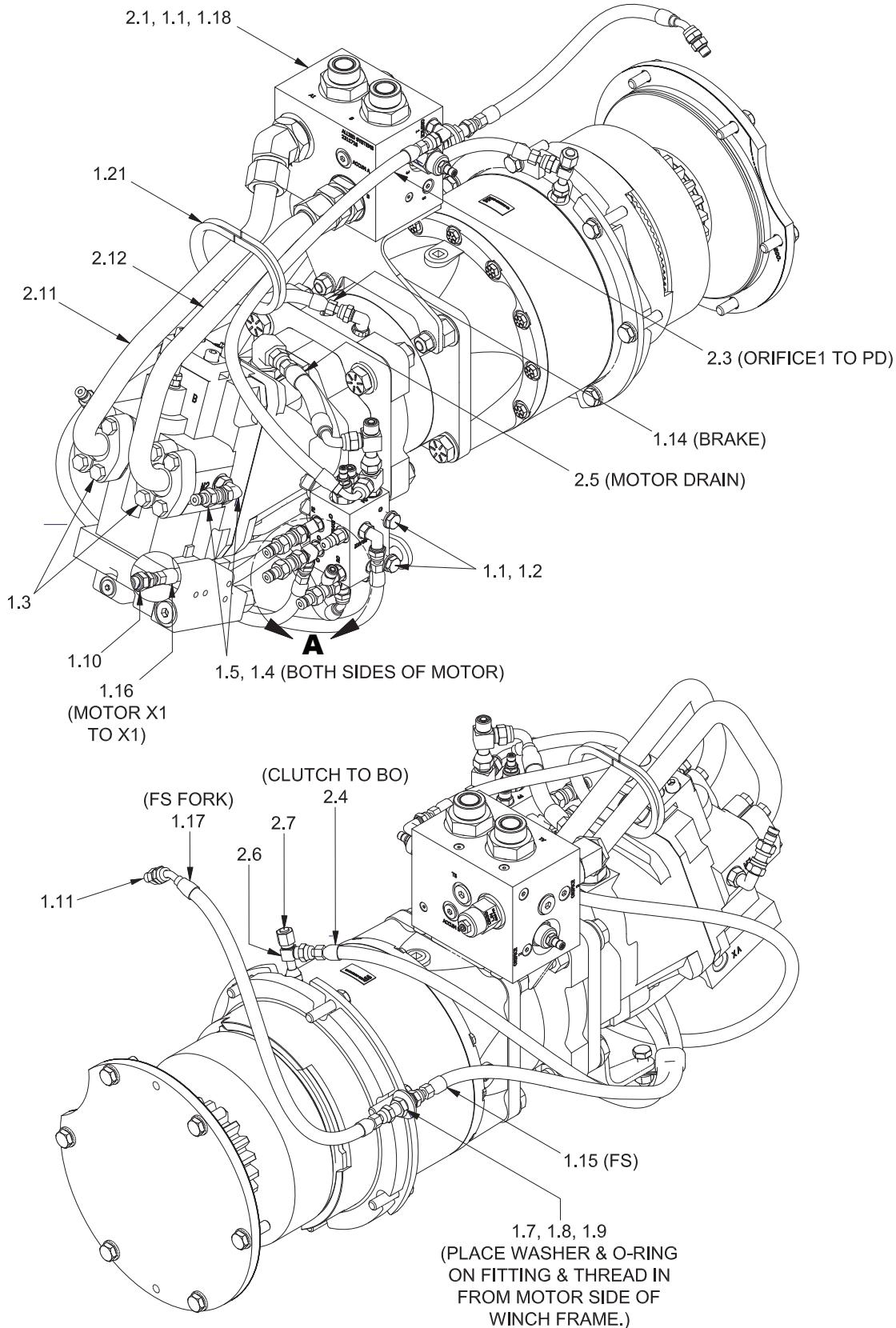
*a Included in Hose Kit 2314767

Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

First Used on S/N 1497

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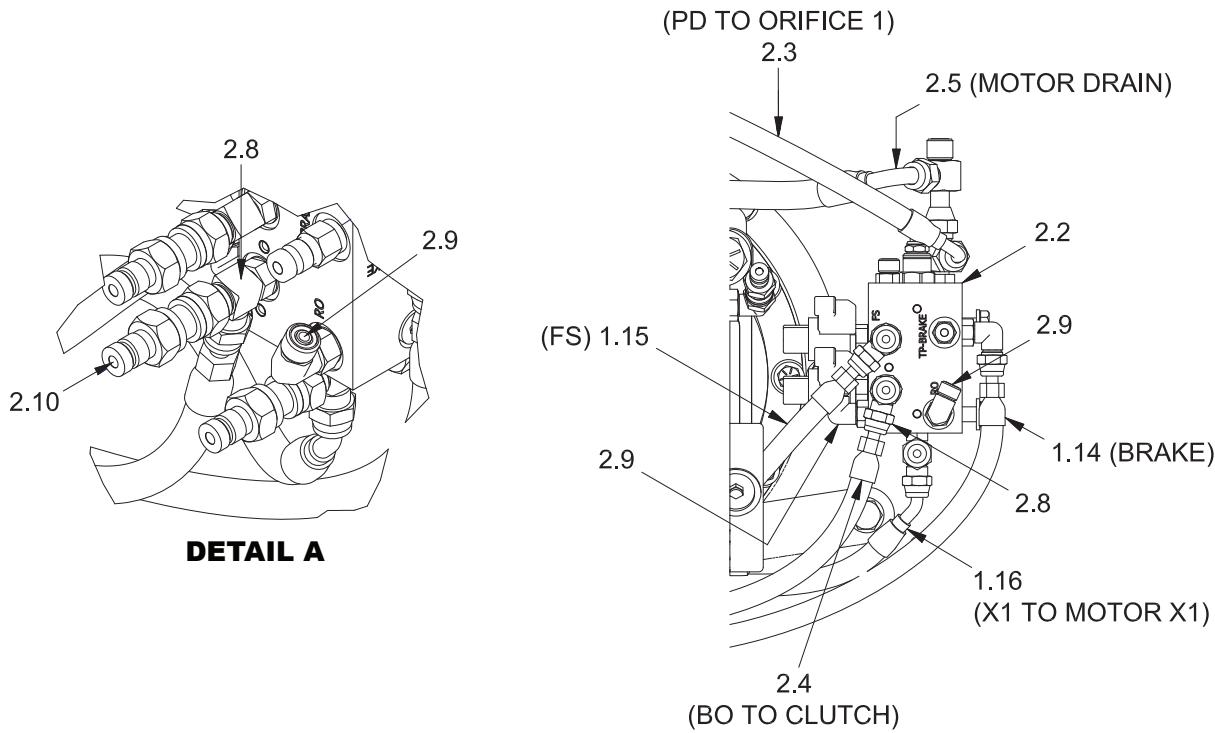


Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

First Used on S/N 1497

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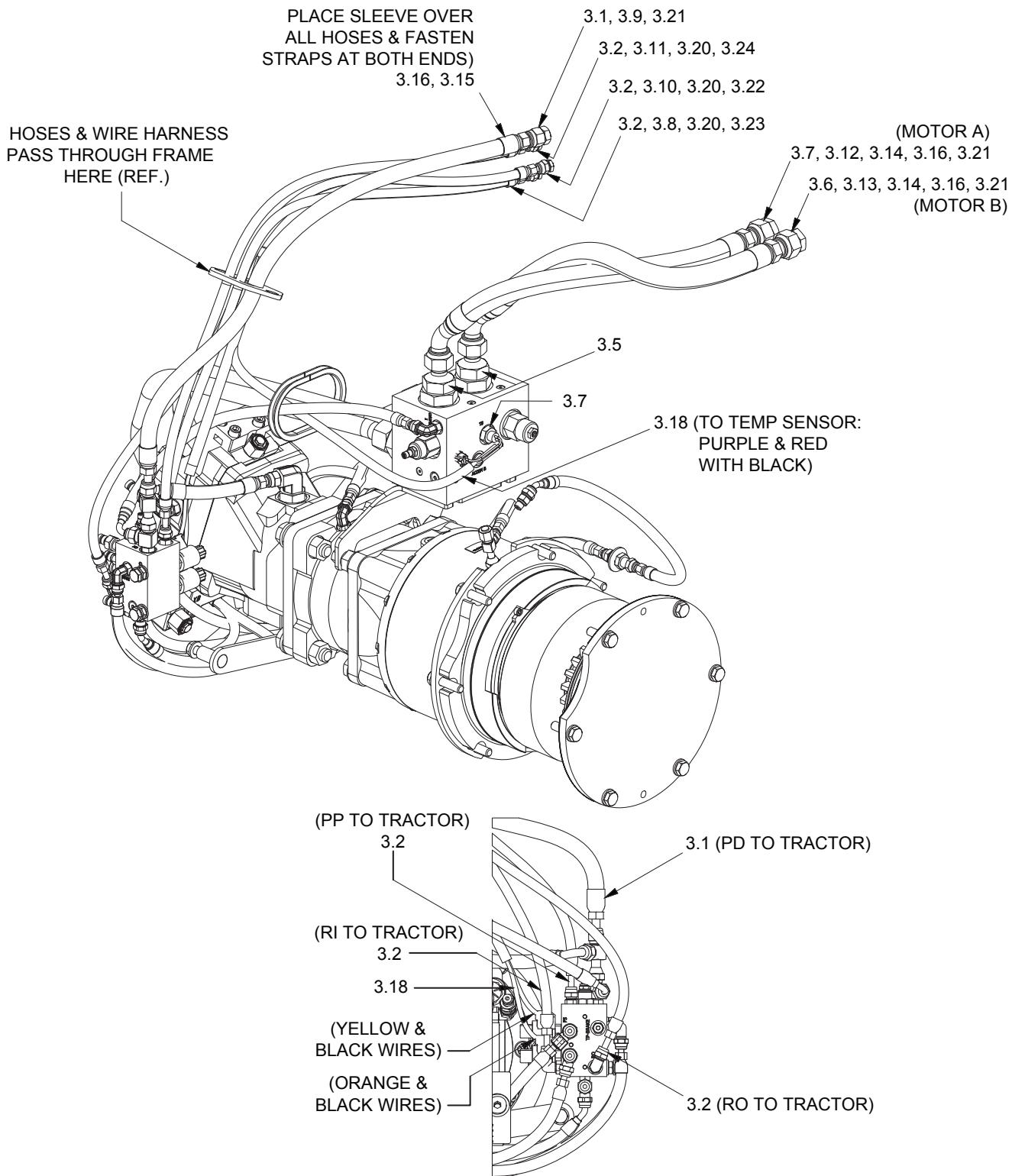
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew	2.1	2314965	1	Assy, Counterbalance Relief Manifold (See p. 116)
1.2	296420W	2	Washer	2.2	2312908	1	Assy, Control Manifold (See p. 108)
1.3	229448	2	Kit, Split Flange	2.3	*a 2312357	1	Assy, Hose
1.4	2307625W	2	Coupler, Quick Male	2.4	*a 2312351	1	Assy, Hose
1.5	R833253	2	Fitting	2.5	*a 2312358	1	Assy, Hose
1.7	R834100	1	Fitting	2.6	236855	1	Fitting
1.8	15178W	1	Washer	2.7	232984	1	Fitting
1.9	211564	1	O-Ring	2.8	R833400	1	Fitting
1.10	R833103	1	Fitting	2.9	R833251	2	Fitting
1.11	231439	1	Fitting	2.10	2307625W	1	Coupler, Quick Male
1.14	*a 2312353	1	Assy, Hose	2.11	2314162	1	Assy, Tube - Motor A
1.15	*a 2312350	1	Assy, Hose	2.12	2314690	1	Assy, Tube - Motor B
1.16	*a 2312878	1	Assy, Hose	*a Included in Hose Kit 2314767			
1.17	*a 2312212	1	Assy, Hose				
1.18	15176W	2	Washer				
1.21	24257	13"	Trim, Edge Clamp, Insulation				
1.22	2312628	1					

Attaching Hydraulics

Caterpillar D6N (H6HT**C81)

First Used on S/N 1497

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CONTROL VALVE DETAIL

Attaching Hydraulics

Caterpillar D6N (H6HT**C81)

First Used on S/N 1497

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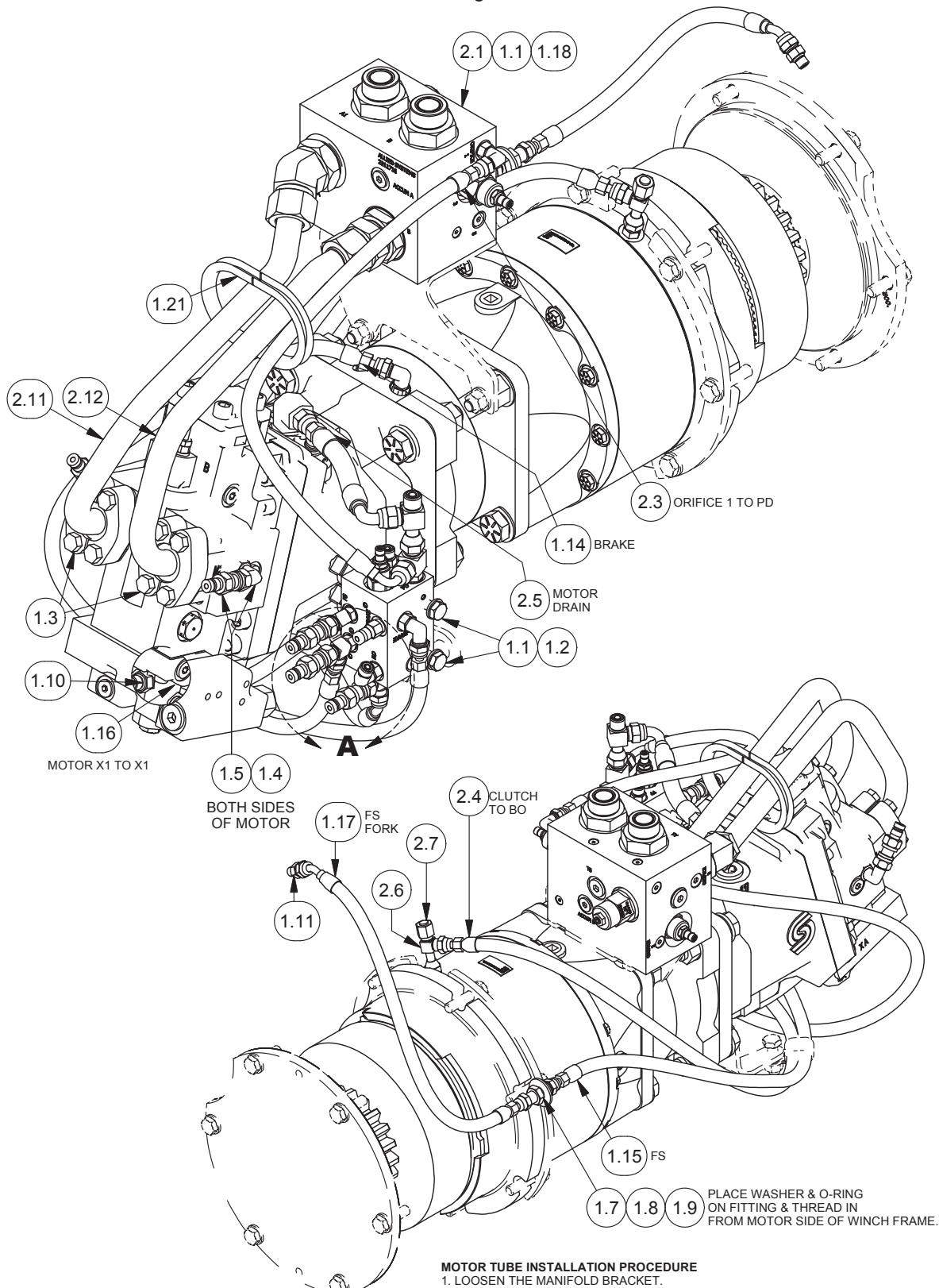
Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
3.1	*a	235527	1	Assy, Hose	3.15		R12577882	1	Sleeve, Cordura
3.2	*a	2311572	3	Assy, Hose	3.16		129563W	1	Clamp, Strap
3.5		234191	2	Fitting	3.17		2307904W	1	Switch, Temperature
3.6	*a	2314423	1	Assy, Hose	3.18		2313137	1	Harness, Winch Wire
3.7	*a	2314422	1	Assy, Hose	3.20		R834200	3	Fitting
3.8		2307239W	1	Label, RI	3.21		232960	1	Fitting
3.9		2306151W	2	Label, T	3.22		242596	1	Tie, Cable (Orange)
3.10		2307238W	1	Label, RO	3.23		242597	1	Tie, Cable (Yellow)
3.11		2307241W	2	Label, Pilot	3.24		242598	1	Tie, Cable (Green)
3.12		2310919	1	Label, Motor A					
3.13		2310920	1	Label, Motor B					
3.14		R12577880	1	Sleeve, Cordura					
					*a				Included in Hose Kit 2314767

Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

First Used S/N 1868

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MOTOR TUBE INSTALLATION PROCEDURE

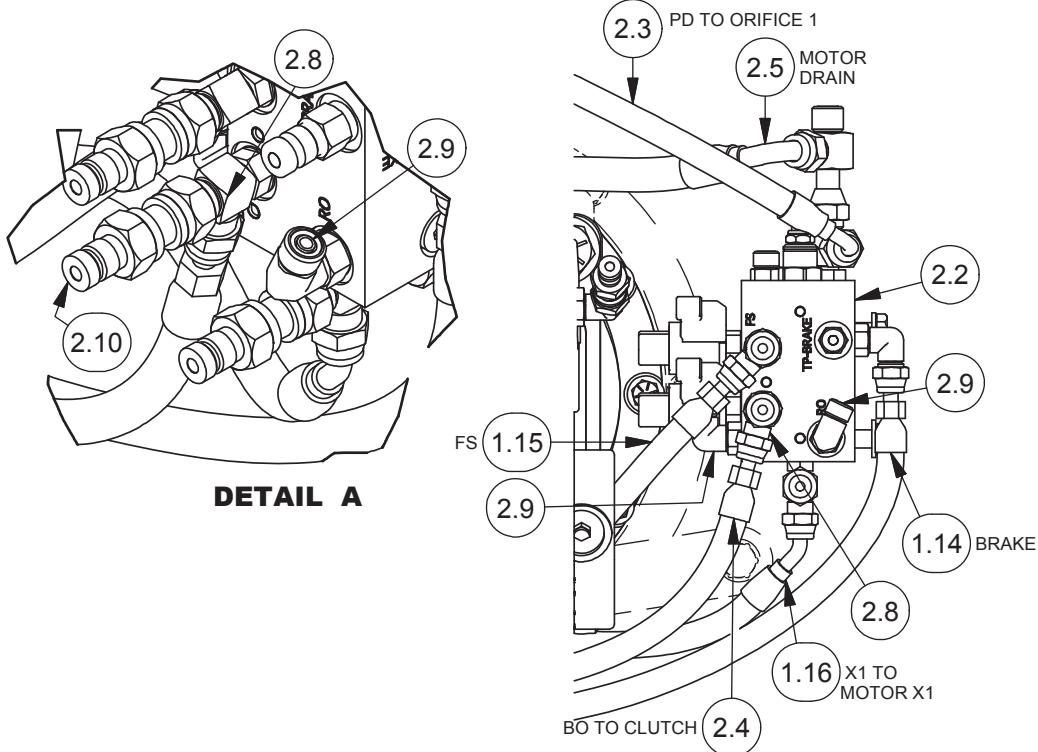
1. LOOSEN THE MANIFOLD BRACKET.
2. INSTALL MANIFOLD ASSEMBLY ON THE BRACKET (DO NOT TIGHTEN).
3. INSTALL MOTOR TUBES. ADJUST THE 45° MANIFOLD FITTING AS NEEDED.
4. TIGHTEN MOTOR TUBES AT THE MOTOR THEN AT THE MANIFOLD.
5. TIGHTEN THE MANIFOLD MOUNTING BOLTS AND MANIFOLD BRACKET BOLTS.

Internal Hydraulic Group

Caterpillar D6N (H6HT**C81)

First Used S/N 1868

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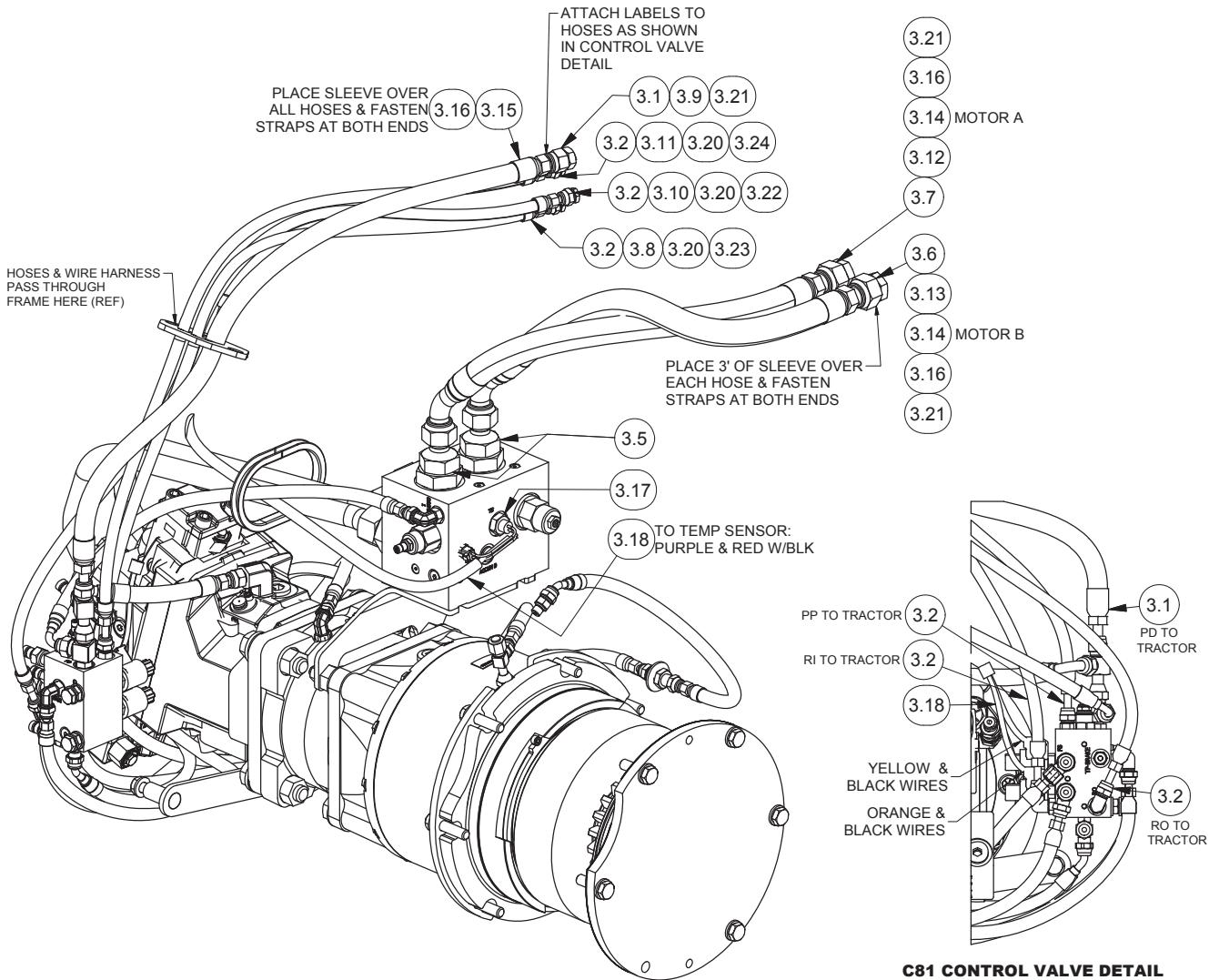
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew				
1.2	296420W	2	Hard Washer	2.1	2314965	1	Assy Manifold, Counterbalance Relief (See p. 116)
1.3	229448	2	Kit, Split Flange	2.2	2312908	1	Manifold Assy, Control (See p. 108)
1.4	2307625W	2	Fitting	2.3	*a 2312357	1	Hose Assy
1.5	R833253	2	Fitting	2.4	*a 2312351	1	Hose Assy
1.7	R834100	1	Fitting	2.5	*a 2312358	1	Hose Assy
1.8	15178W	1	Flat Washer	2.6	236855	1	Fitting
1.9	211564	1	O-Ring	2.7	232984	1	Fitting
1.10	R833103	1	Fitting	2.8	R833400	1	Fitting
1.11	231439	1	Fitting	2.9	R833251	2	Fitting
1.14 *a	2312353	1	Hose Assy	2.10	2307625W	1	Fitting
1.15 *a	2312350	1	Hose Assy	2.11	2314162	1	Tube Assy
1.16 *a	2312878	1	Hose Assy	2.12	2314690	1	Tube Assy
1.17 *a	2312212	1	Hose Assy				
1.18	221767W	2	Hard Washer				
1.21	24257	1'	Trim, Edge				
1.22	2312628	1	Clamp				

*a Included in Hose Kit 2314767

Attaching Hydraulics

Caterpillar D6N (H6HT**C81)

First Used S/N 1868

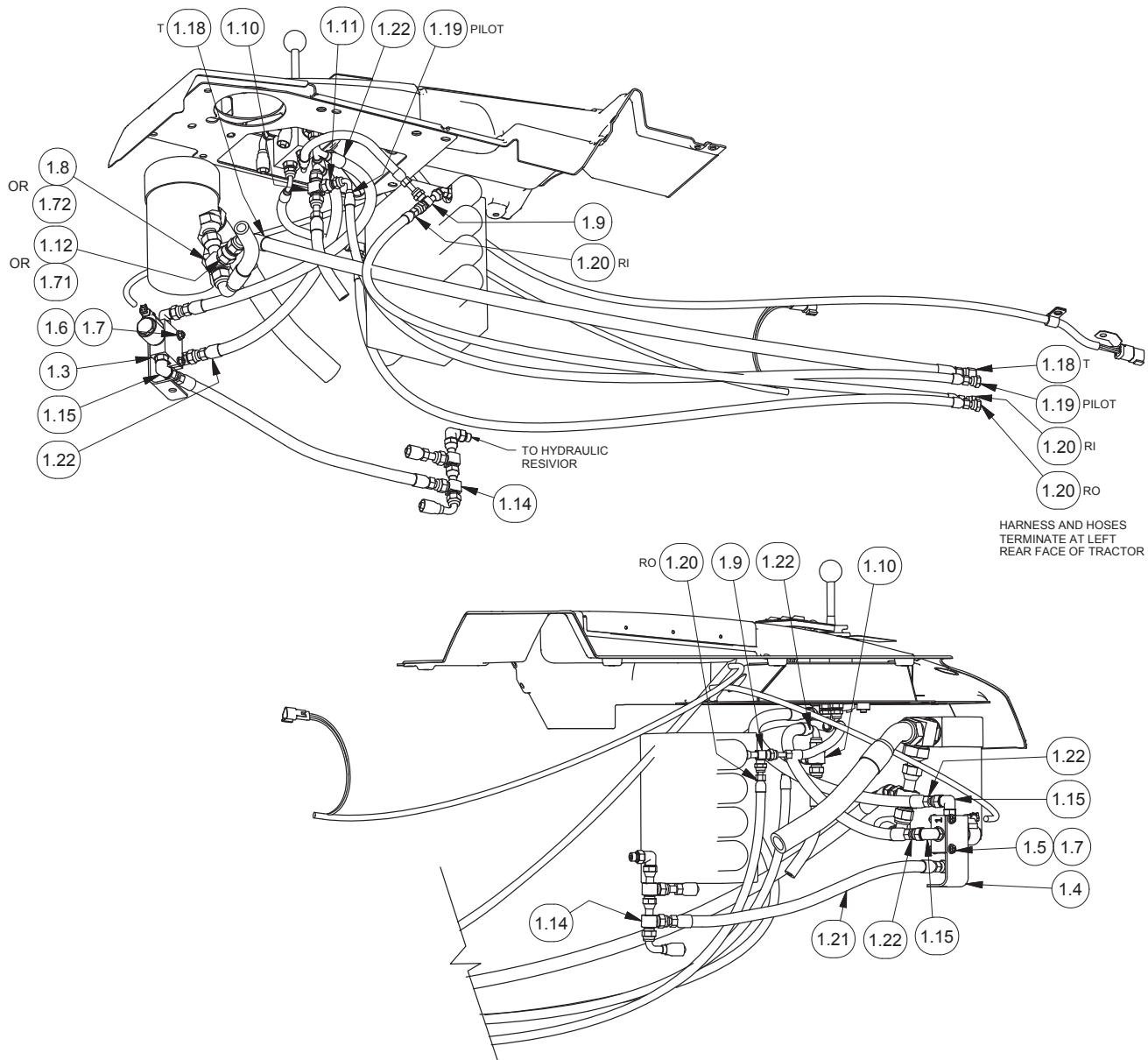


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
3.1 *a	2315574	1	. Hose Assy	3.14	R12577880	1'	. Sleeve
3.2 *a	2311572	3	. Hose Assy	3.15	R12577882	1'	. Sleeve, Cordura
3.5	234191	2	. Fitting	3.16	129563W	1	. Cable Tie
3.6 *a	2314423	1	. Hose Assy	3.17	2307904W	1	. Switch - Temperature
3.7 *a	2314422	1	. Hose Assy	3.18	2313137	1	. Harness, Wire
3.8	2307239W	1	. Label - RI	3.20	R834200	3	. Fitting
3.9	2306151W	2	. Label - T	3.21	232960	3	. Fitting
3.10	2307238W	1	. Label - RO	3.22	242596	1	. Cable Tie
3.11	2307241W	2	. Label - Pilot	3.23	242597	1	. Cable Tie
3.12	2310919	1	. Label - Motor "A"	3.24	242598	1	. Cable Tie
3.13	2310920	1	. Label - Motor "B"				

*a Included in Hose Kit 2314767

Console Hydraulics

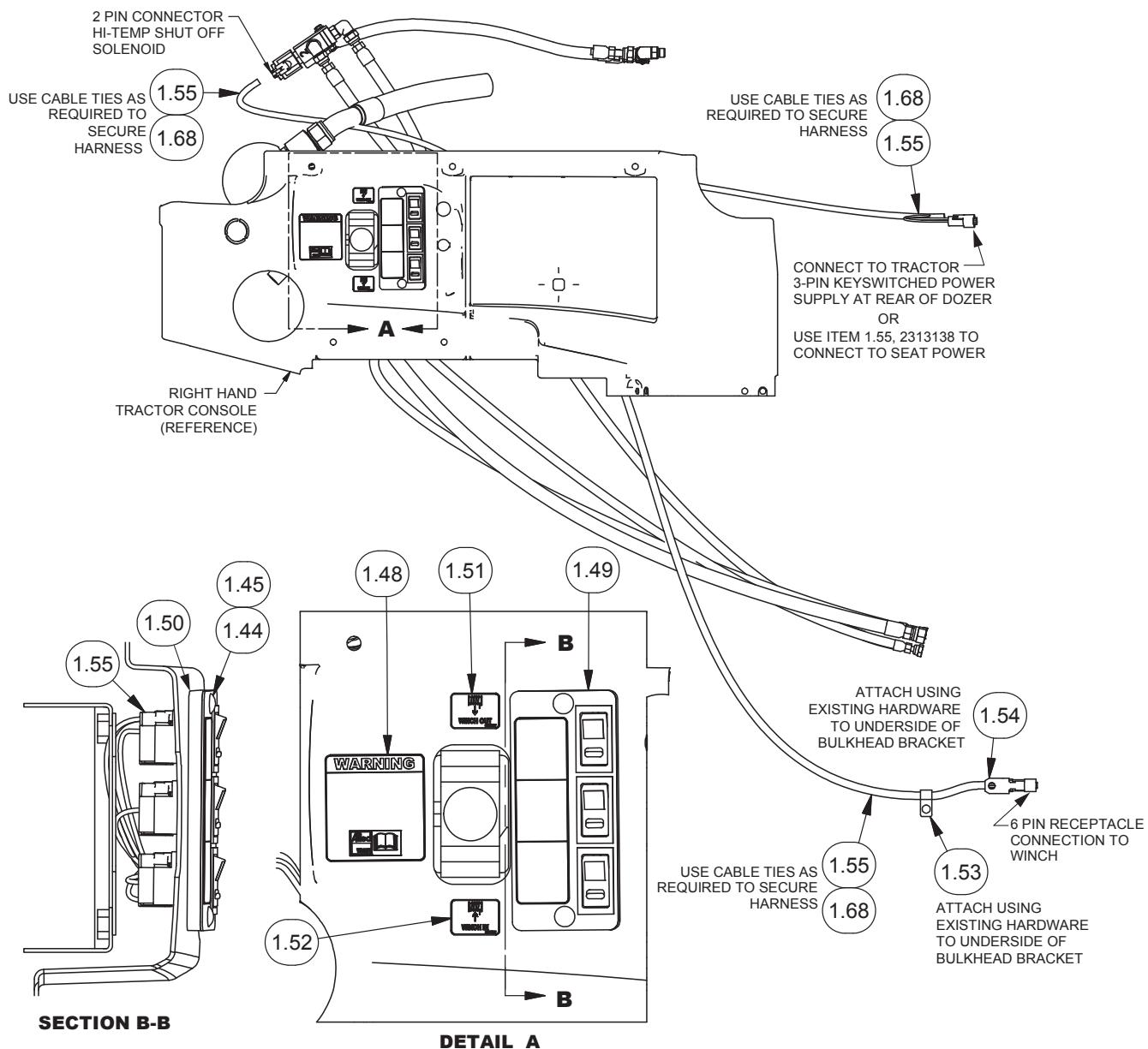
Caterpillar D6N (H6HT**C81)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1.3	2307833W	1	Assy, Valve Manifold (104)	1.11	242629	1	Fitting	
	2307834W	1	. Valve, Solenoid Cartridge	1.12	252605	1	Fitting	
	2307835W	1	. . Valve, Cartridge	1.14	231955	1	Fitting	
	250589	1	. . Coil, Solenoid	1.15	R833257	3	Fitting	
	R15668	1	. . Kit, Seal	1.18	*a	254680	1	Assy, Hose
	R12973129	1	. Body, Valve	1.19	*a	249465	1	Assy, Hose
1.4	2307897W	1	Plate, Mounting	1.20	*a	242358	2	Assy, Hose
1.5	Y01C-0428	2	Capscrew	1.21	*a	2307906W	1	Assy, Hose
1.6	221703W	2	Nut	1.22	*a	2307905W	2	Assy, Hose
1.7	221763W	6	Washer	1.71	2307958W	1	Fitting	
1.8	R834053	1	Fitting	1.72	R834055	1	Fitting	
1.9	236855	2	Fitting					
1.10	231470	1	Fitting					
				*a			Included in Hose Kit 2314767	

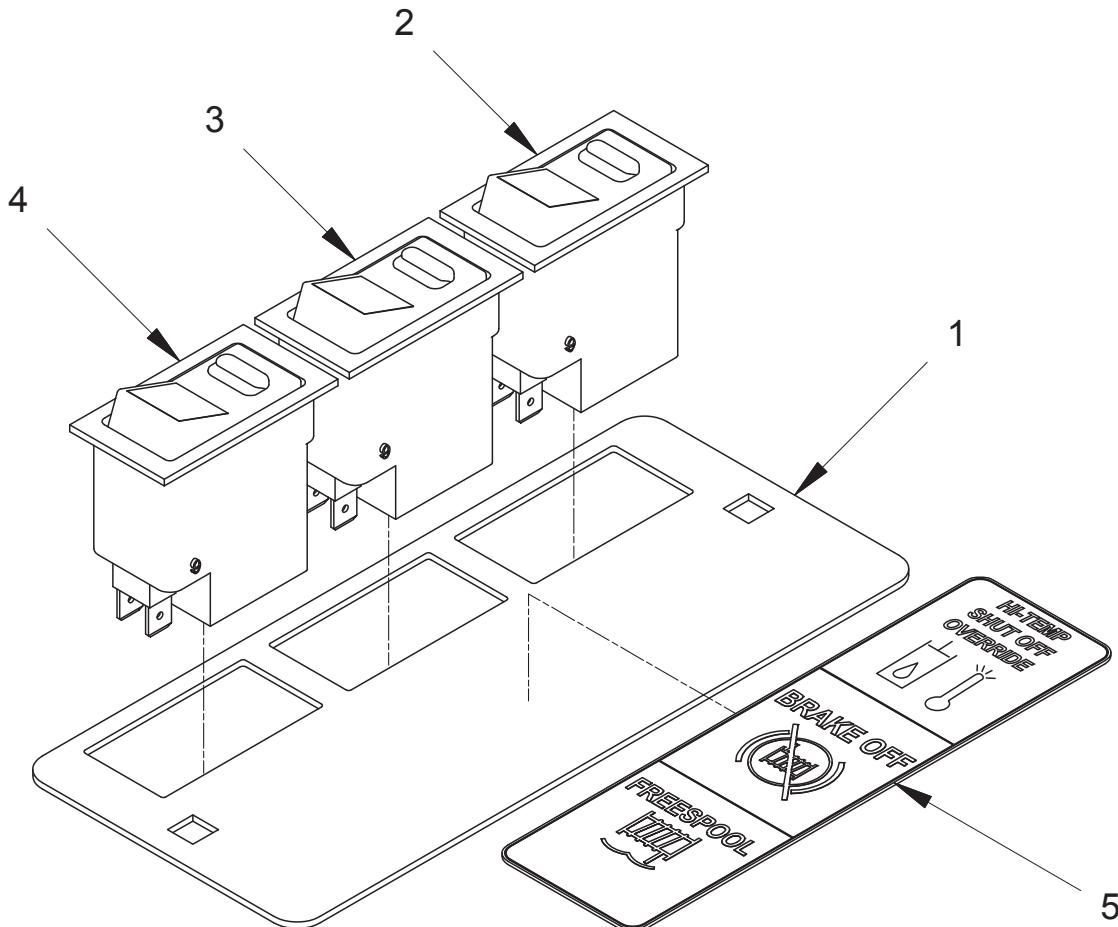
Electrical Installation

Caterpillar D6N (H6HT**C81)



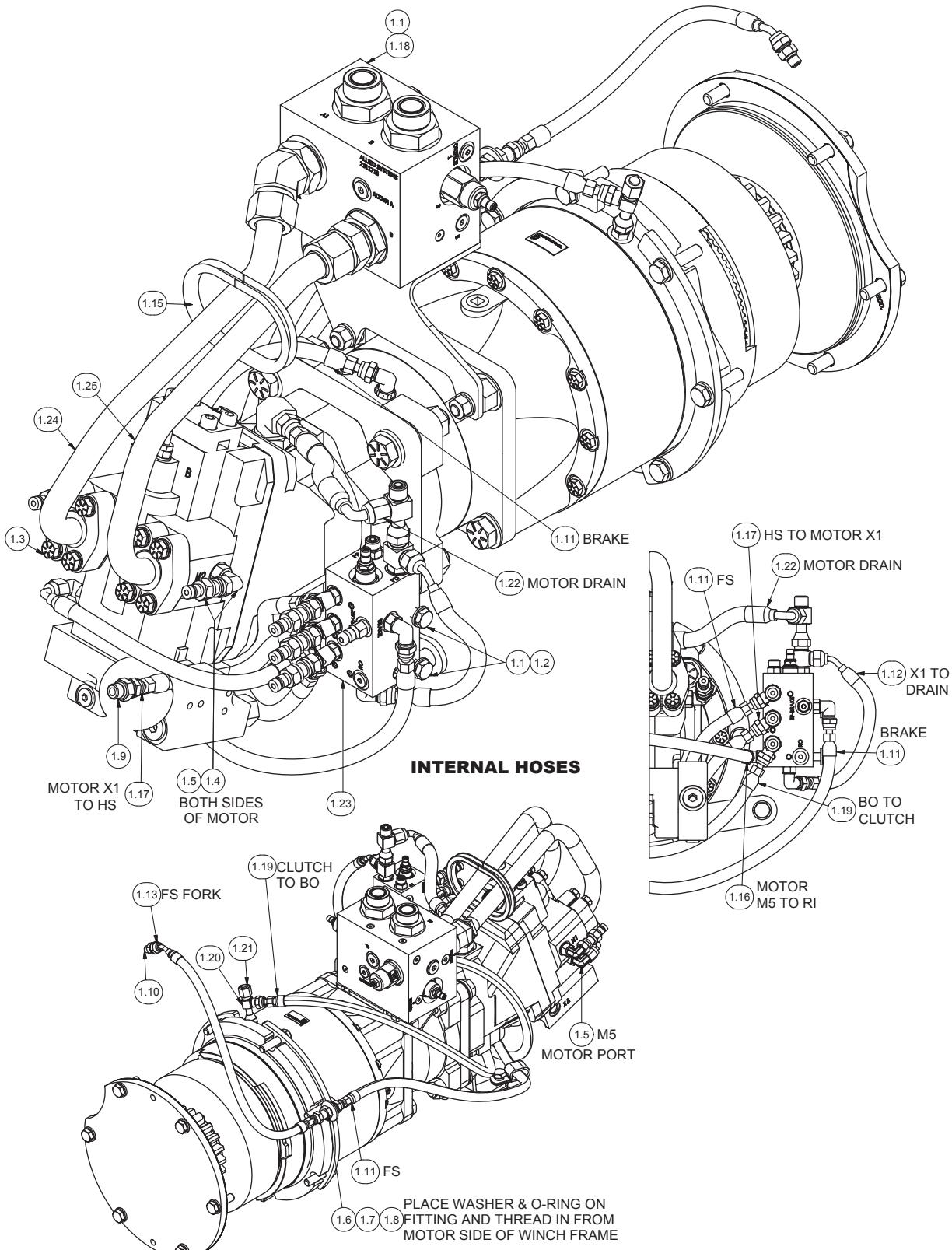
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.44	220000W	2	Bolt	1.52	2307121W	1	Decal, Winch In
1.45	R13811189	2	Nut, Lock	1.53	R13807642	1	Clip, Insulation
1.48	2313135	1	Decal, Hi-Temp Override	1.54	2311550	1	Clip, Harness Mounting
1.49	2313113	1	Assy, Switch Panel (See p. 81)	1.55	2313138	1	Wire Harness, Console
1.50	2313200	1	Plate, Switch Assy Spacer	1.68	129563W	20	Clamp, Strap
1.51	2307122W	1	Decal, Winch Out				

Switch Panel Assy
FREESPOOL, BRAKE-OFF & HI-TEMP
Caterpillar D6N (C81)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313113	1	Assy, Switch Panel; FREE-SPOOL, BRAKE-OFF & HI-TEMP	4	2310506	1	. Assy, Switch; Momentary 24V w/ Red LED
1	2313136	1	. Plate, Switch Mounting	5	2313114	1	. Decal, Switch Panel;
2	2310013	1	. Assy, Switch; 24V, Yellow LED				. FREESPOOL, BRAKE-OFF & HI-TEMP
3	2310504	1	. Assy, Switch; 24V, Red LED				

Internal Hydraulic Group
 Caterpillar D6N (H6HT**DC811) with FREESPOOL
 Last Used S/N 1713
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Internal Hydraulic Group

Caterpillar D6N (H6HT**DC811) with FREESPOOL

Last Used S/N 1713

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Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew	1.14	221767W	2	Hard Washer
1.2	296420W	2	Hard Washer	1.15	24257	1.08'	Trim, Edge
1.3	229448	2	Kit, Split Flange	1.16	*a	2313843	Hose Assy
1.4	2307625W	2	Fitting	1.17	*a	239847	Hose Assy
1.5	R833253	2	Fitting	1.18		2314727	Assy, Counterbalance Relief
1.6	R834100	1	Fitting				Manifold (See p. 114)
1.7	15178W	1	Flat Washer	1.19	*a	2312351	Hose Assy
1.8	211564	1	O-Ring	1.20		236855	Fitting
1.9	R833103	1	Fitting	1.21		232984	Fitting
1.10	231439	1	Fitting	1.22	*a	2312358	Hose Assy
1.11	*a	2312350	Hose Assy	1.23		2313960	Assy - Manifold, Control
1.12	*a	2313844	Hose Assy				(See p. 113)
1.13	*a	2312212	Hose Assy	1.24		2314162	Tube Assy - Motor A
				1.25		2314690	Tube Assy - Motor B

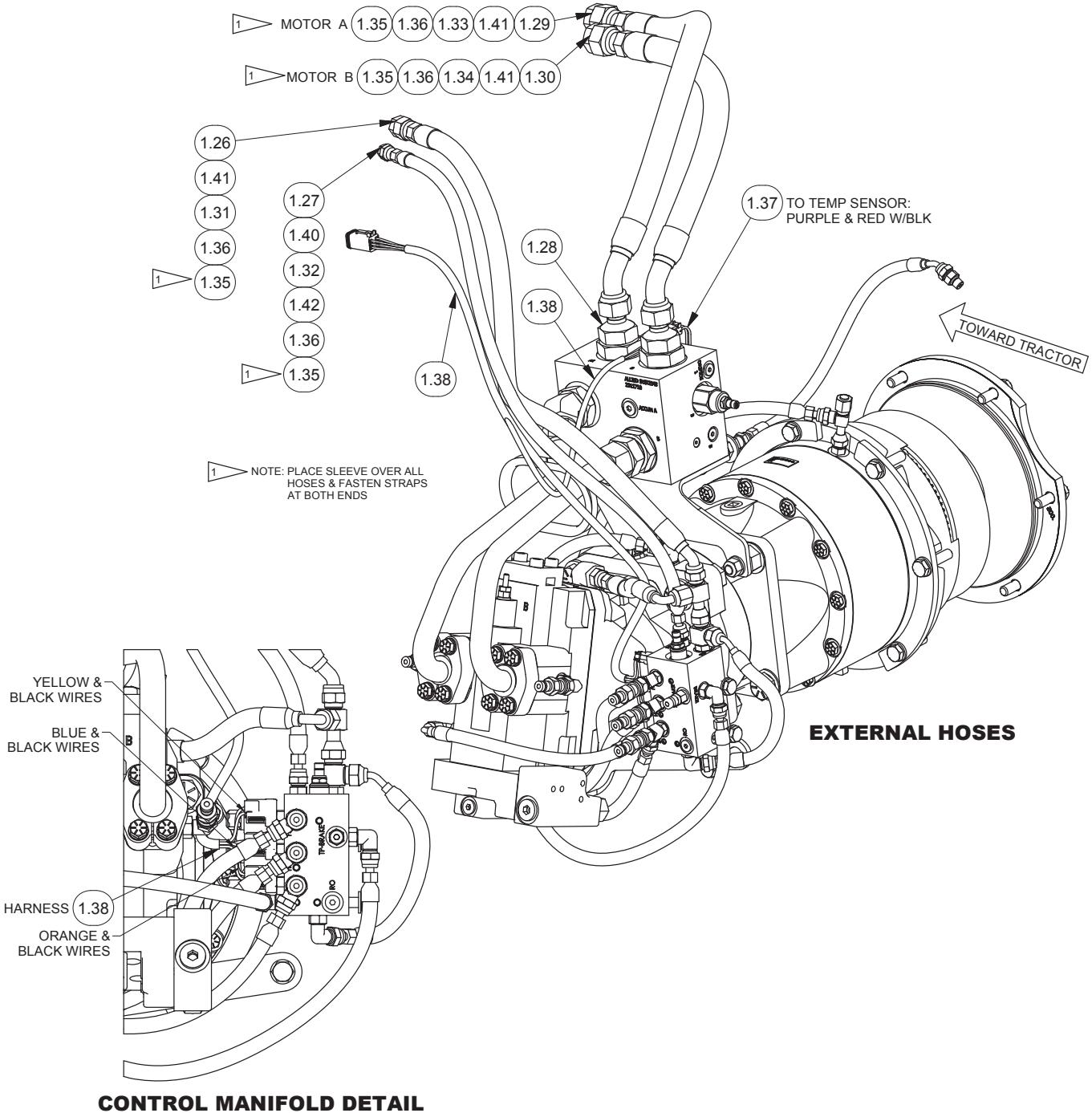
*a Included in Hose Kit 2314768

External Hydraulic Group

Caterpillar D6N (H6HT**DC811) with FREESPOOL

Last Used S/N 1713

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External Hydraulic Group

Caterpillar D6N (H6HT**DC811) with FREESPOOL

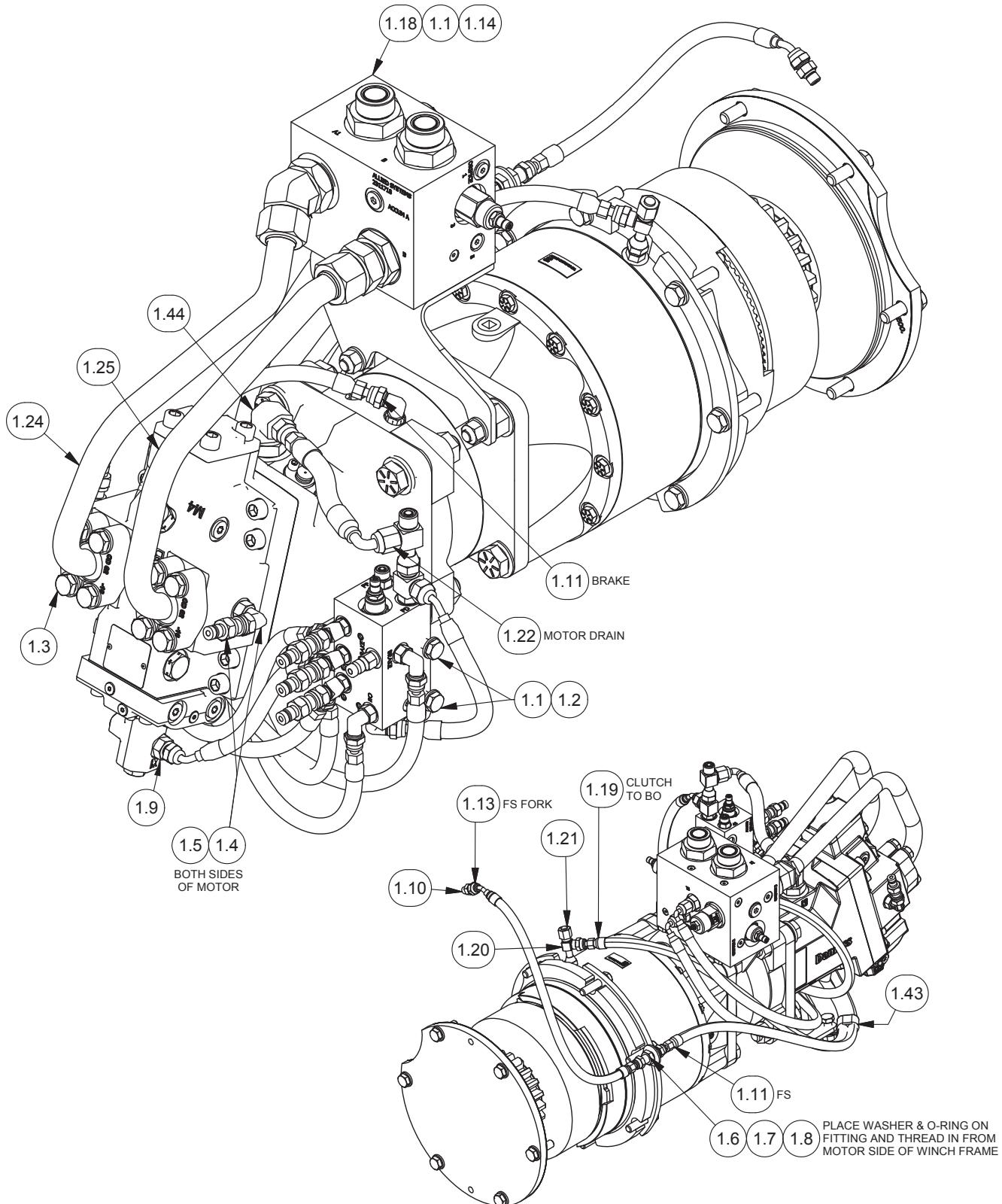
Last Used S/N 1713

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Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1.26	*a	2314231	1	Assy, Hose	1.35		R12577880	6'	Sleeve, Cordura
1.27	*a	2311572	1	Assy, Hose	1.36		129563	6	Clamp, Strap
1.28		234191	2	Fitting	1.37		2307904W	1	Switch, Temperature
1.29	*a	2314423	1	Assy, Hose	1.38		2313137	1	Harness, Winch Wire
1.30	*a	2314422	1	Assy, Hose	1.40		R834200	1	Fitting
1.31		2306151W	2	Label, T	1.41		232960	3	Fitting
1.32		2307241W	1	Label, Pilot	1.42		242598	1	Tie, Cable (Green)
1.33		2310919	1	Label, Motor A					
1.34		2310920	1	Label, Motor B					

*a Included in Hose Kit 2314768

Internal Hydraulic Group
 Caterpillar D6N (H6HT**DC811) with FREESPOOL
 First Used S/N 1714
 Page 1 of 2



Internal Hydraulic Group
 Caterpillar D6N (H6HT**DC811) with FREESPOOL
 First Used S/N 1714
 Page 2 of 2

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.1	Y09C-M1025	4	Capscrew	1.14	221767W	2	Hard Washer
1.2	296420W	2	Hard Washer	1.18	2314727	1	Assy, Counterbalance Relief
1.3	592255	2	Kit, Split Flange				Manifold (See p. 114)
1.4	2307625W	2	Fitting	1.19	*a	2312351	Hose Assy
1.5	R833253	2	Fitting	1.20	236855	1	Fitting
1.6	R834100	1	Fitting	1.21	232984	1	Fitting
1.7	15178W	1	Flat Washer	1.22	*a	2312358	Hose Assy
1.8	211564	1	O-Ring	1.24	2316108	1	Tube Assy - Motor A
1.9	R833103	1	Fitting	1.25	2316109	1	Tube Assy - Motor B
1.10	231439	1	Fitting	1.43	2312628	1	Clamp
1.11	*a	2312350	2	Hose Assy	1.44	R833260	Fitting
1.13	*a	2312212	1	Hose Assy			

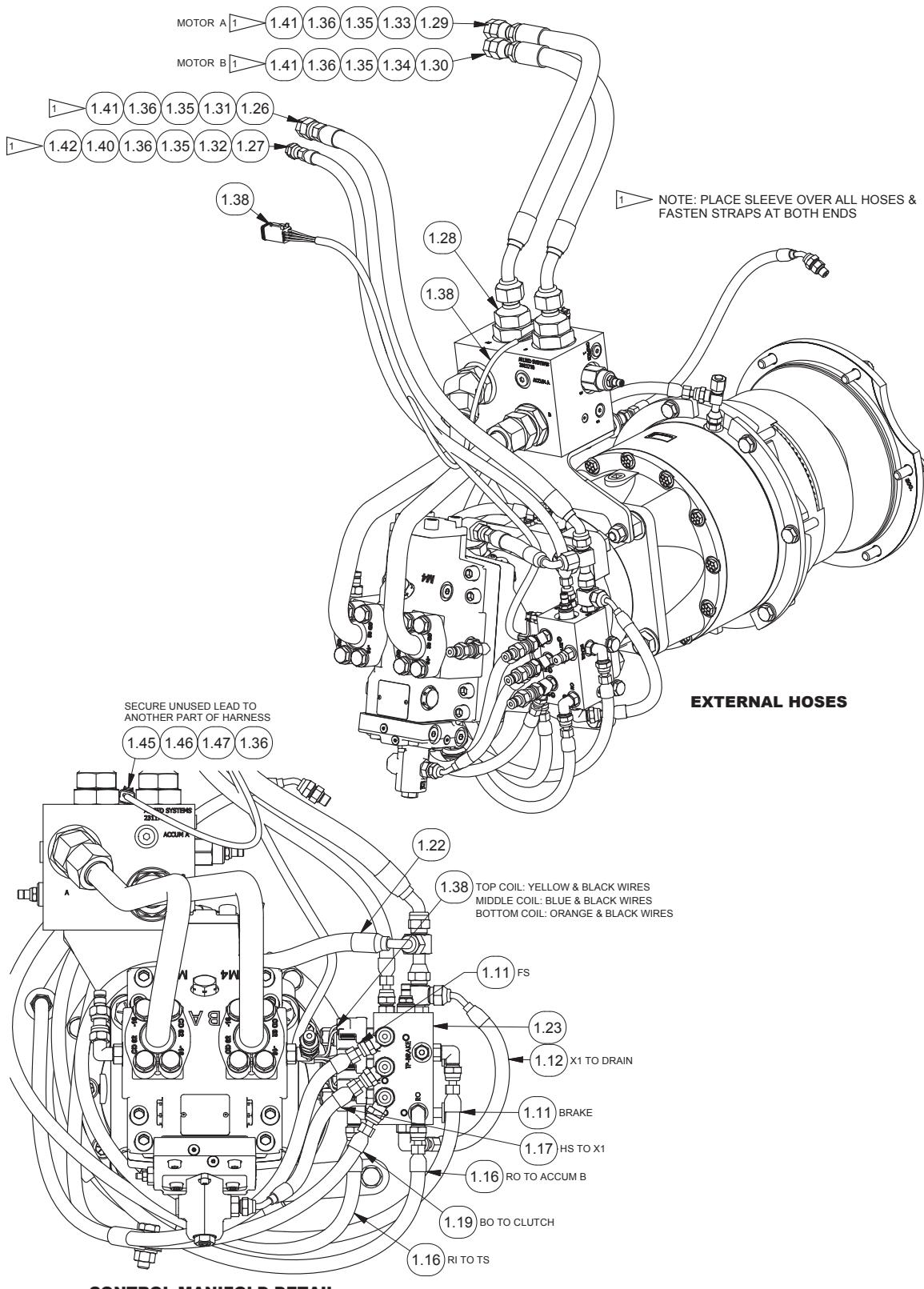
*a Included in Hose Kit 2314768

External Hydraulic Group

Caterpillar D6N (H6HT**DC811) with FREESPOOL

First Used S/N 1714

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External Hydraulic Group

Caterpillar D6N (H6HT**DC811) with FREESPOOL

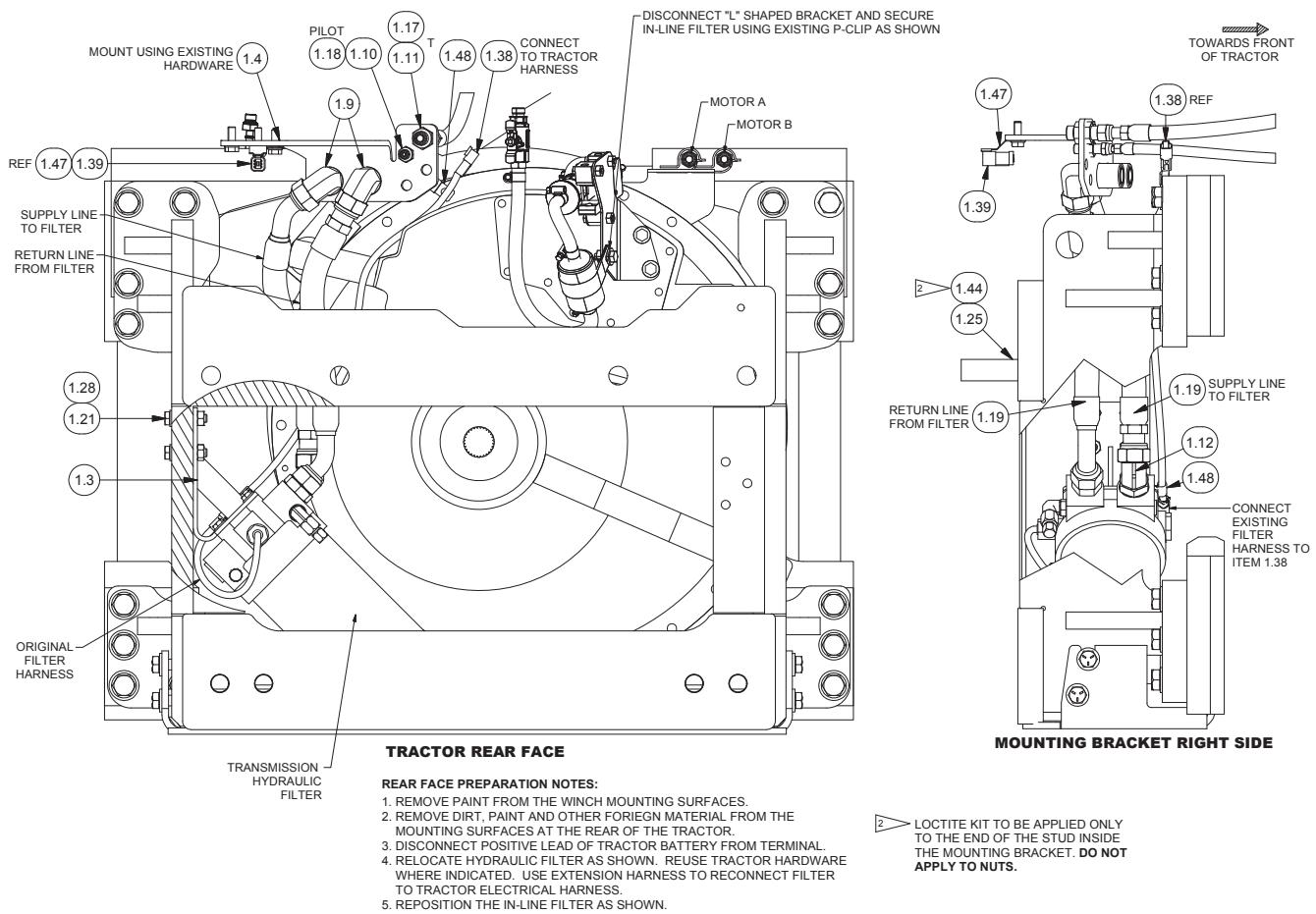
First Used S/N 1714

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Item		Part No.	Qty	Description	Item		Part No.	Qty	Description
1.11	*a	2312350	2	Hose Assy	1.32		2307241W	1	Label - Pilot
1.12	*a	2313844	1	Hose Assy	1.33		2310919	1	Label - Motor A
1.16	*a	2315641	1	Hose Assy	1.34		2310920	1	Label - Motor B
1.17	*a	2313639	1	Hose Assy	1.35		R12577880	6'	Sleeve
1.19	*a	2312351	1	Hose Assy	1.36		129563W	8	Cable Tie
1.22	*a	2312358	1	Hose Assy	1.38		2313137	1	Harness, Wire
1.23		2313960	1	Manifold Assy, Control (See p. 113)	1.40		R834200	1	Fitting
1.26	*a	2314231	1	Hose Assy	1.41		232960	3	Fitting
1.27	*a	2311572	1	Hose Assy	1.42		242598	1	Cable Tie
1.28		234191	2	Fitting	1.45		219288	2	Plug
1.29	*a	2314423	1	Hose Assy	1.46		243502	1	Plug, 2 Conductor
1.30	*a	2314422	1	Hose Assy	1.47		243506	1	Plug, Wedgelock
1.31		2306151W	1	Label - T					*a Included in Hose Kit 2314768

Hydraulic Filter Relocation

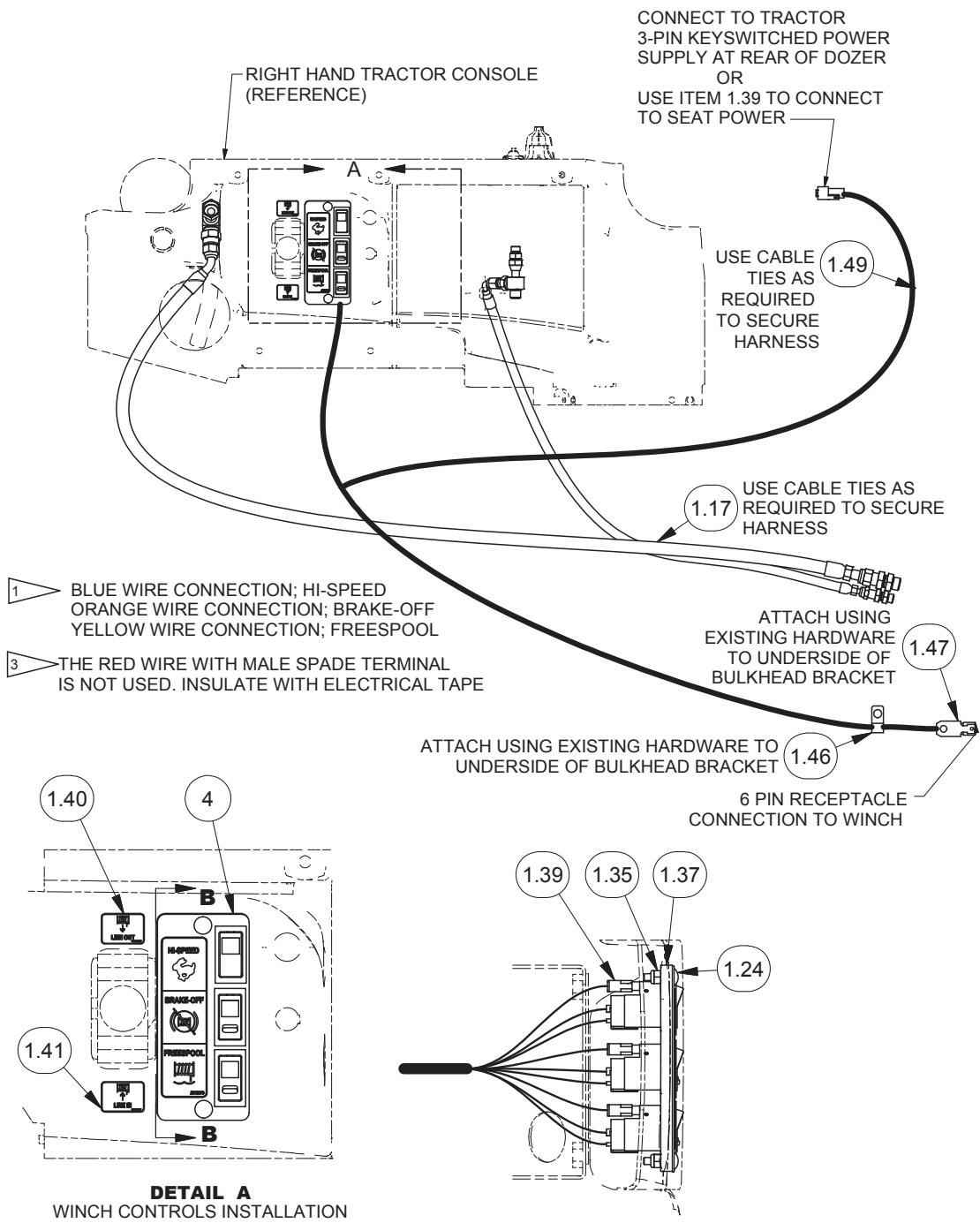
Caterpillar D6N (C811)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.3	2314735	1	Bracket, Filter Assy Mounting	1.28	296422W	4	Washer
1.4	2313133	1	Plate, D6N Bulkhead	1.38	2305617W	1	Harness, Filter External
1.9	2305620W	2	Fitting	1.39	2313961	1	Harness, Console Wire
1.10	R834100	1	Fitting	1.44	230064W	1	Loctite Kit
1.11	R834103	1	Fitting	1.47	2311550	1	Clip, Harness Mounting
1.12	R833217	1	Fitting	1.48	243057	2	Clamp
1.17	*a 254680	1	Assy, Hose	*a	Included in Hose Kit 2314768		
1.18	*a 249465	1	Assy, Hose		*b Use Loctite Kit, 230064W, only on the end of the studs inside the mounting bracket. Do not apply to nuts.		
1.19	*a 2314742	2	Assy, Hose				
1.21	Y09C-M1255	4	Capscrew				
1.25	*b 2300783W	4	Stud				

Electrical Installation

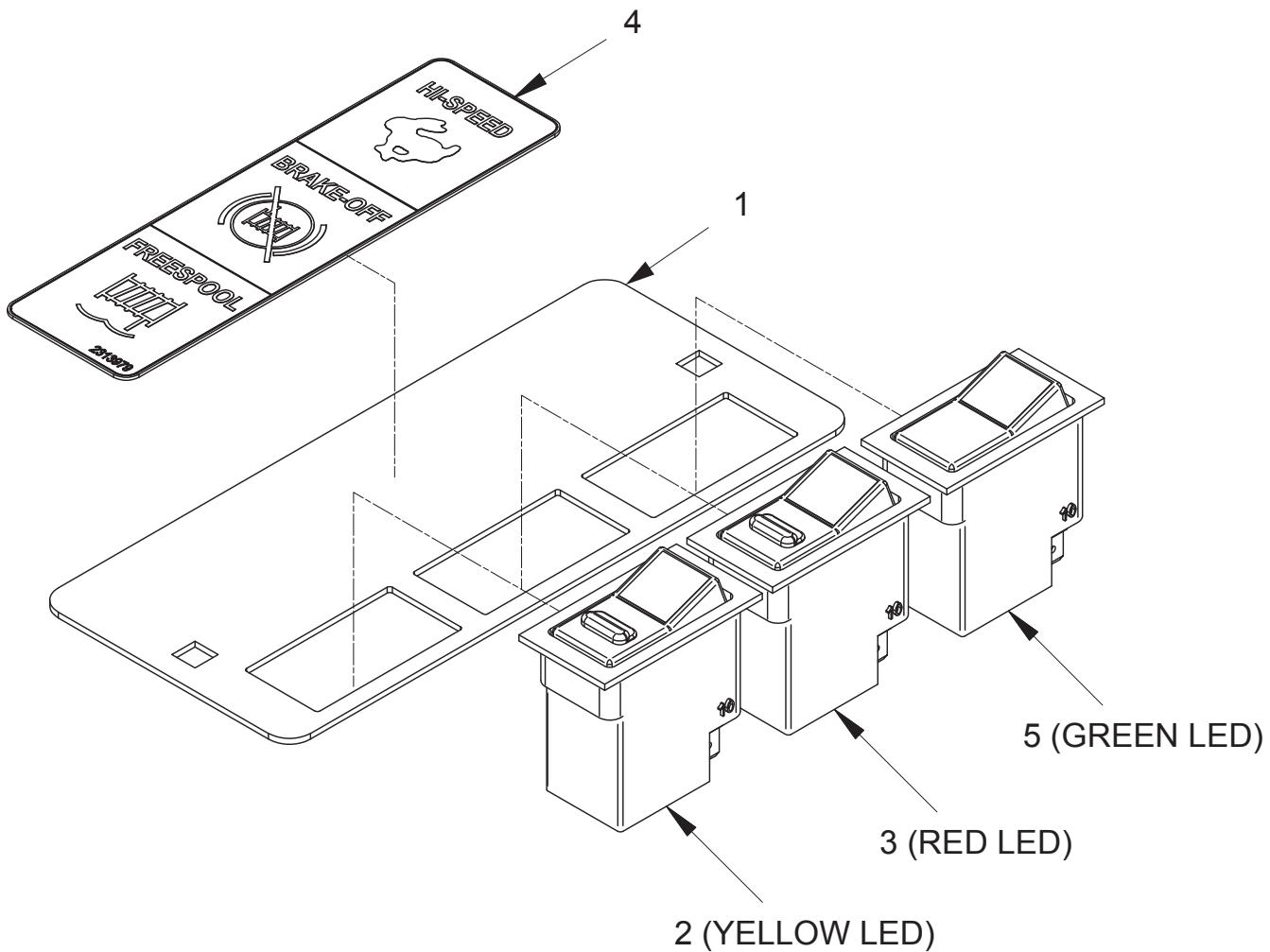
Caterpillar D6N (H6HT1DNC811)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1.17 *a	254680	1	Hose Assy	1.46	R13807642	1	Clip, Insulation
1.24	220000W	2	Bolt	1.47	2311550	1	Clip, Harness Mounting
1.35	R13811189	2	Nut, Lock	1.49	129563W	10	Clamp, Strap
1.37	2313200	1	Spacer, Switch Assy	4	2313978	1	Assy, Switch Panel - BRAKE-OFF & HI-SPEED (See p. 92)
1.39	2313961	1	Harness, Console Wire				
1.40	2307122W	1	Decal, Winch Out				
1.41	2307121W	1	Decal, Winch In				

*a Included in Hose Kit 2314768

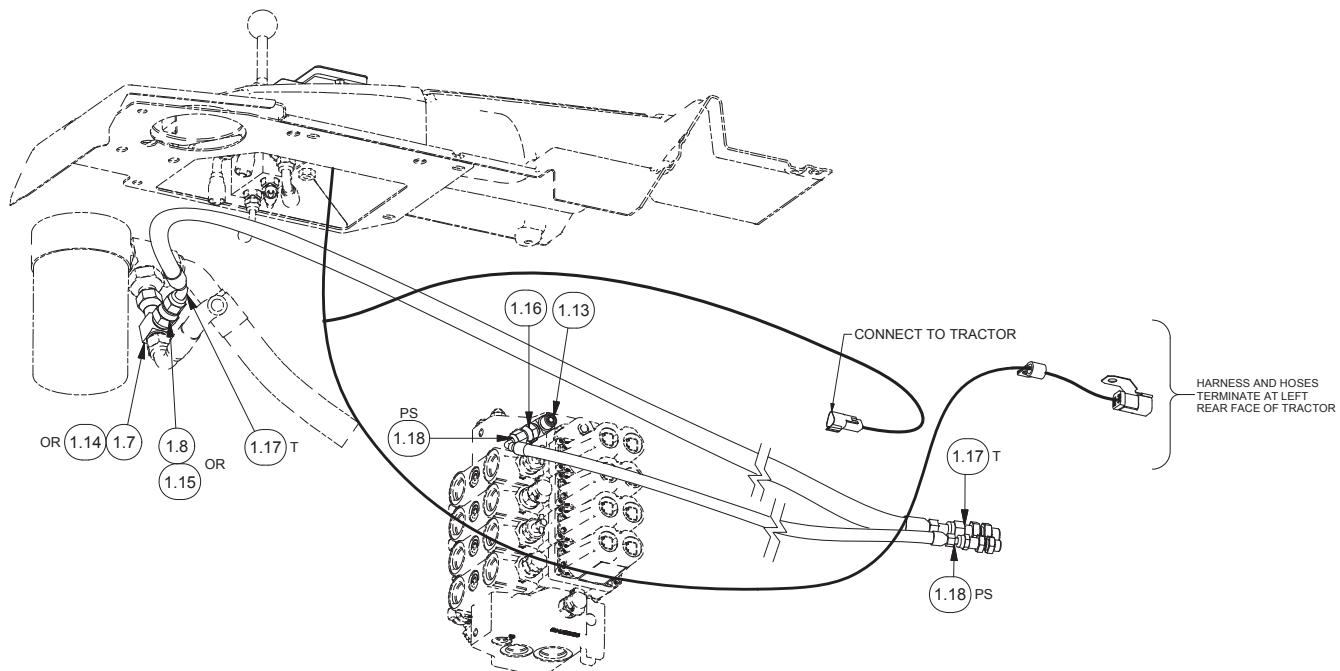
Switch Panel Assy
FREESPOOL, BRAKE-OFF & HI-SPEED
Caterpillar D6N (H6HT1DC811)



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

Console Hydraulics

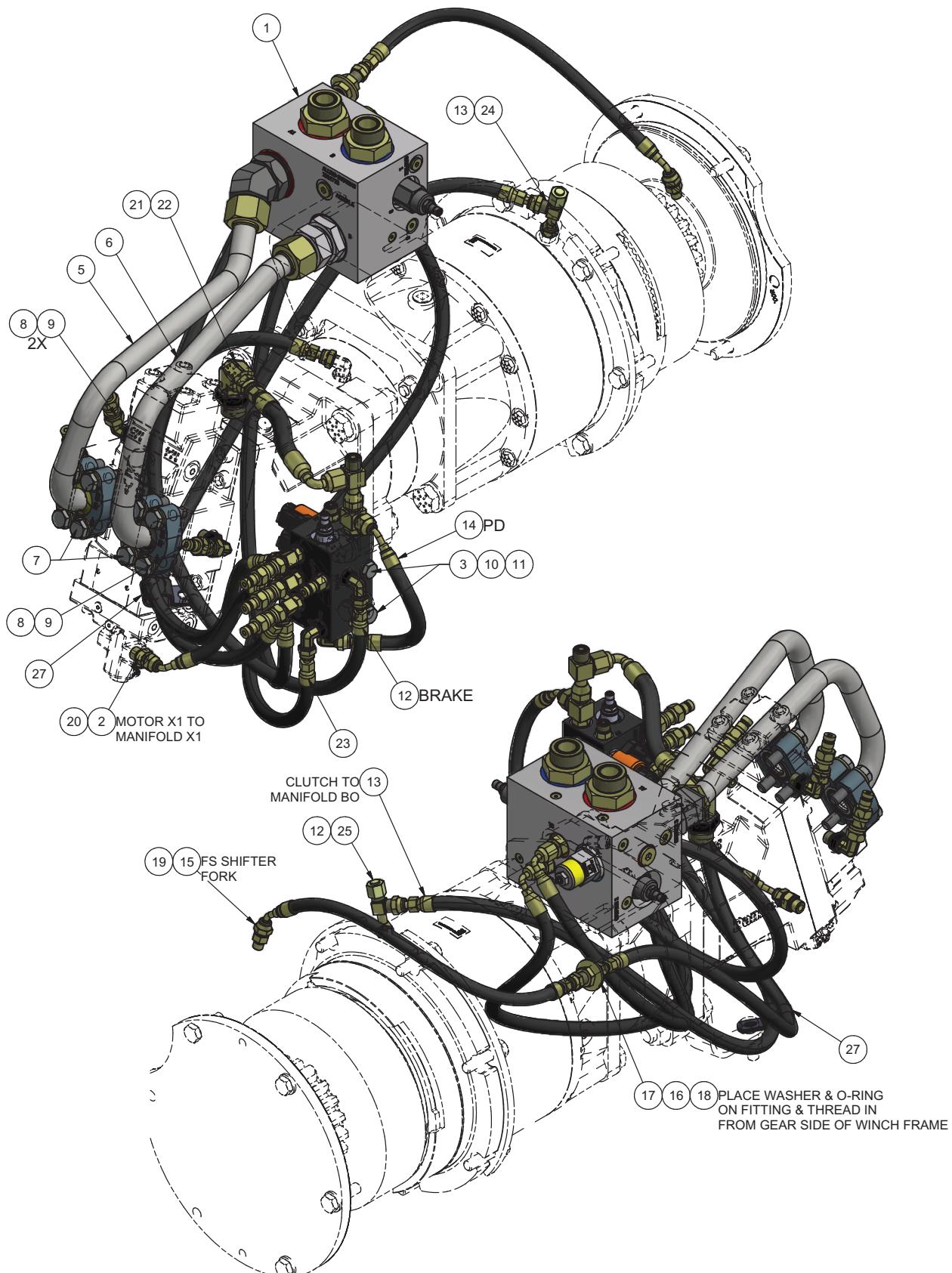
Caterpillar D6N (C811)



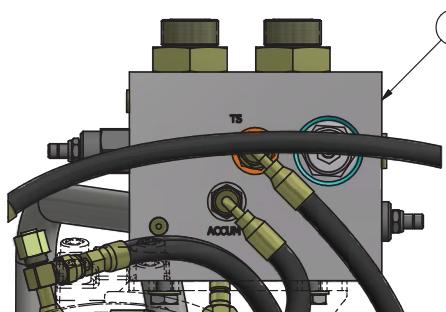
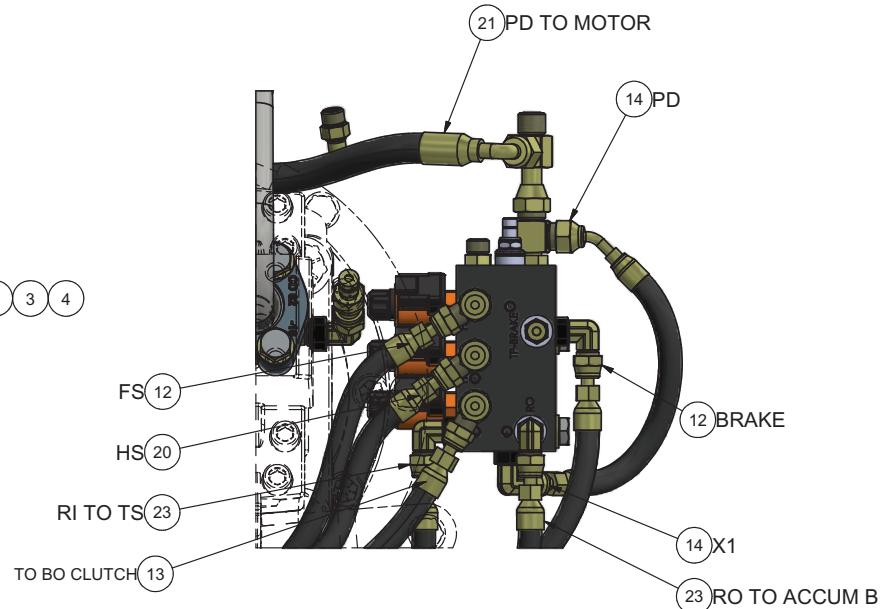
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1.13	231955	1	Fitting	1.16	242629	1	Fitting	
1.14	R834055	1	Fitting	1.17	*a	254680	1	Assy, Hose
1.15	2307958W	1	Fitting	1.18	*a	249465	1	Assy, Hose

*a Included in Hose Kit 2314768

Internal Hydraulic Group
Caterpillar D5 BUILD 17 A/B (H6HT*DLC812)
Page 1 of 2



Internal Hydraulic Group
Caterpillar D5 BUILD 17 A/B (H6HT*DLC812)
Page 2 of 2

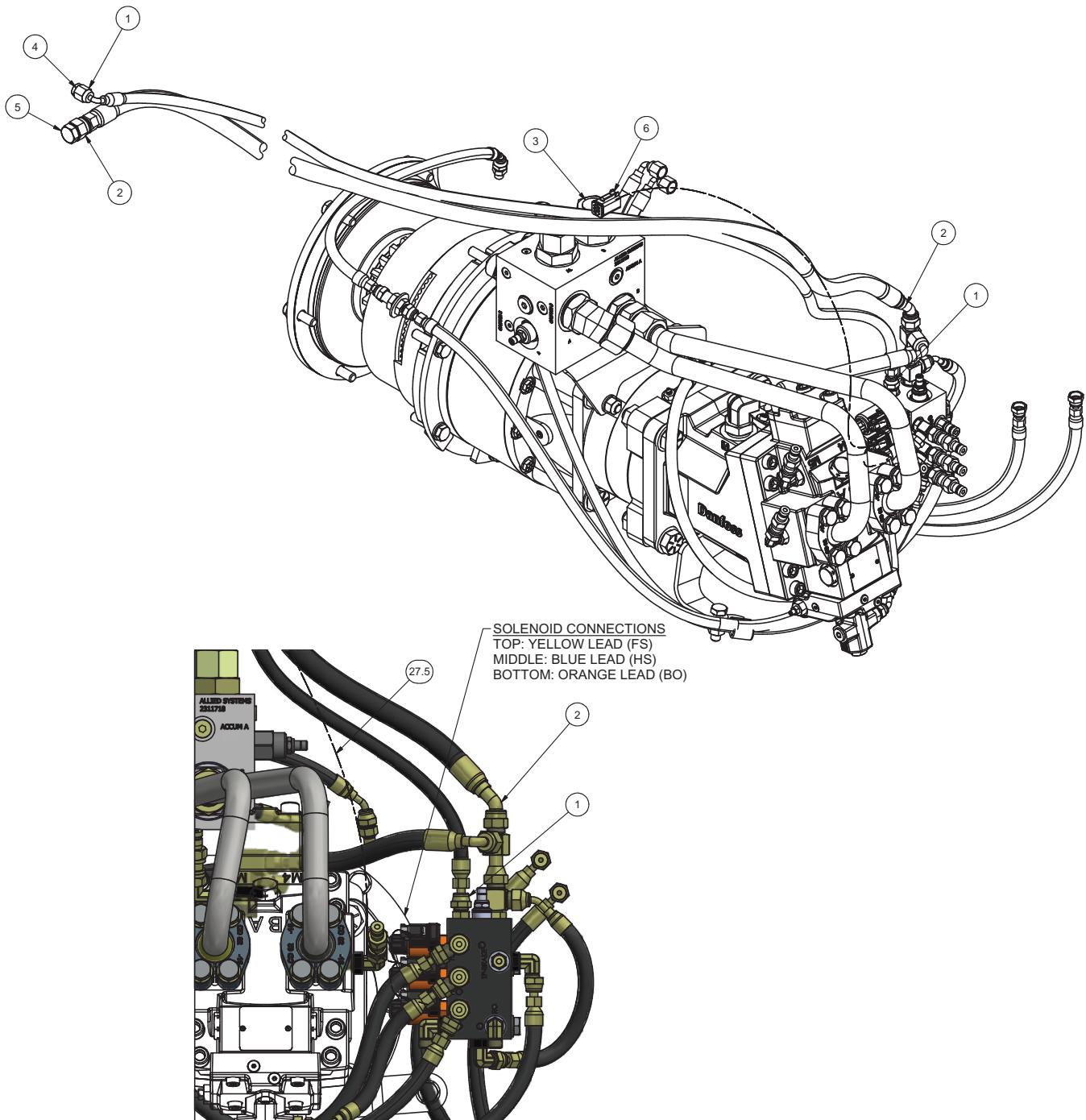
MANIFOLD DETAILCONTROL MANIFOLD DETAIL

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1	2314727	1	Manifold Assembly, CBR (See p. 114)	14	*a	2313844	1	Hose Assembly
2	R833103	1	Fitting	15	*a	2312212	1	Hose Assembly
3	Y09C-M1025	4	Capscrew	16		R834100	1	Fitting
4	221767W	2	Washer	17		15178W	1	Washer
5	2316108	1	Tube Assembly	18		211564	1	O-Ring
6	2316109	1	Tube Assembly	19		231439	1	Fitting
7	592255	2	Kit, Split Flange	20	*a	2313639	1	Hose Assembly
8	R833253	3	Fitting	21	*a	2312358	1	Hose Assembly
9	2307625W	3	Fitting	22		R833260	1	Fitting
10	2313960	1	Manifold Assembly, Control (See p. 113)	23	*a	2315641	2	Hose Assembly
11	296420W	2	Washer	24		236855	1	Fitting
12	*a	2312350	Hose Assembly	25		232984	1	Fitting
13	*a	2312351	Hose Assembly	26		129563W	8	Cable Tie
				27		2312628	1	Clamp

*a Included in Hose Kit 2317933

Attaching Hydraulics Group

Caterpillar D5 BUILD 17 A/B (H6HT*DLC812)

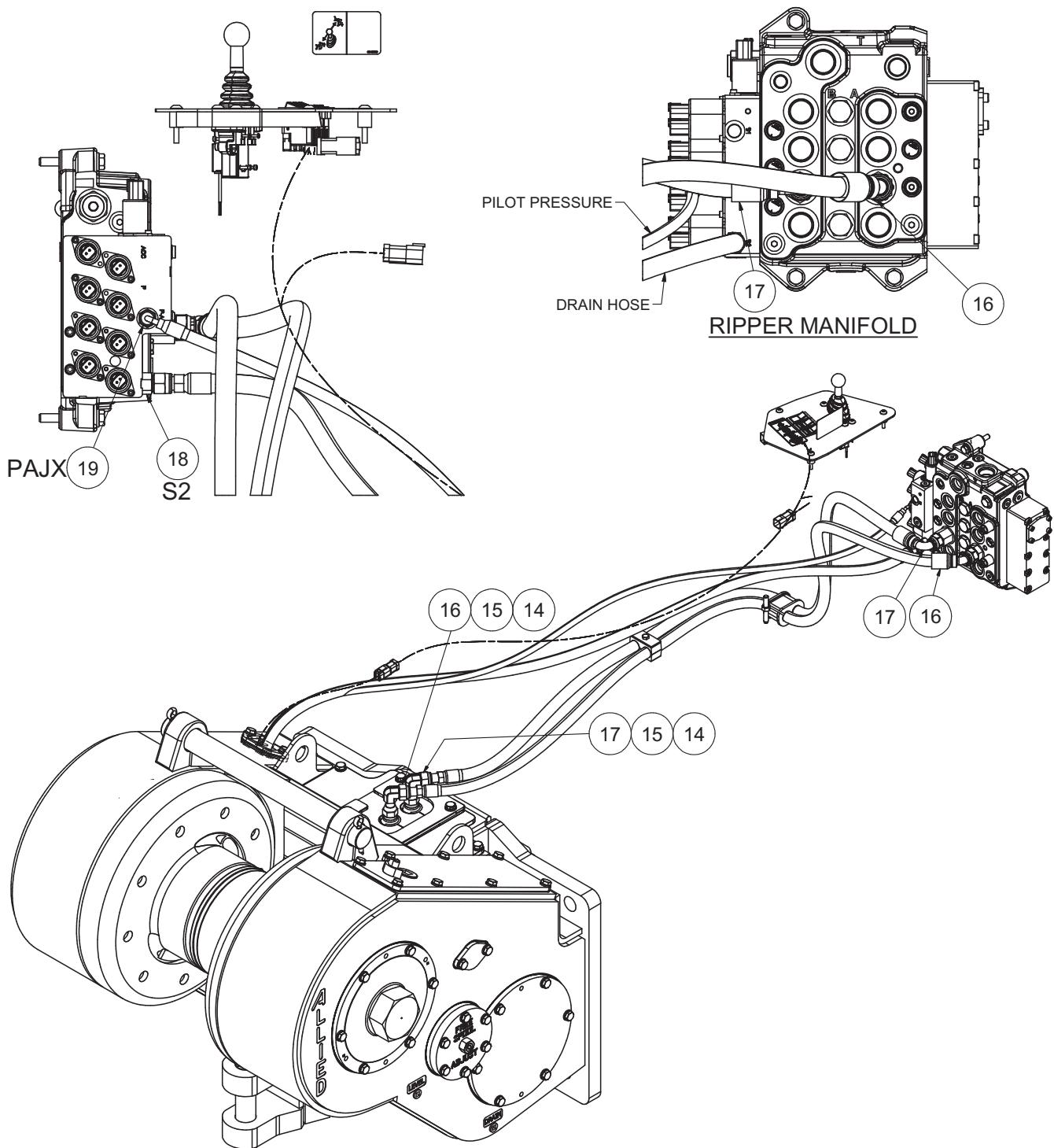


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	*a 2317865	1	Hose Assembly	4	R834200	1	Fitting
2	*a 2317866	1	Hose Assembly	5	232960	1	Fitting
3	231820 232383	2 1	Fitting . O-Ring	6	2315725	1	Harness - Wire, Winch

*a Included in Hose Kit 2317933

Winch Hydraulics

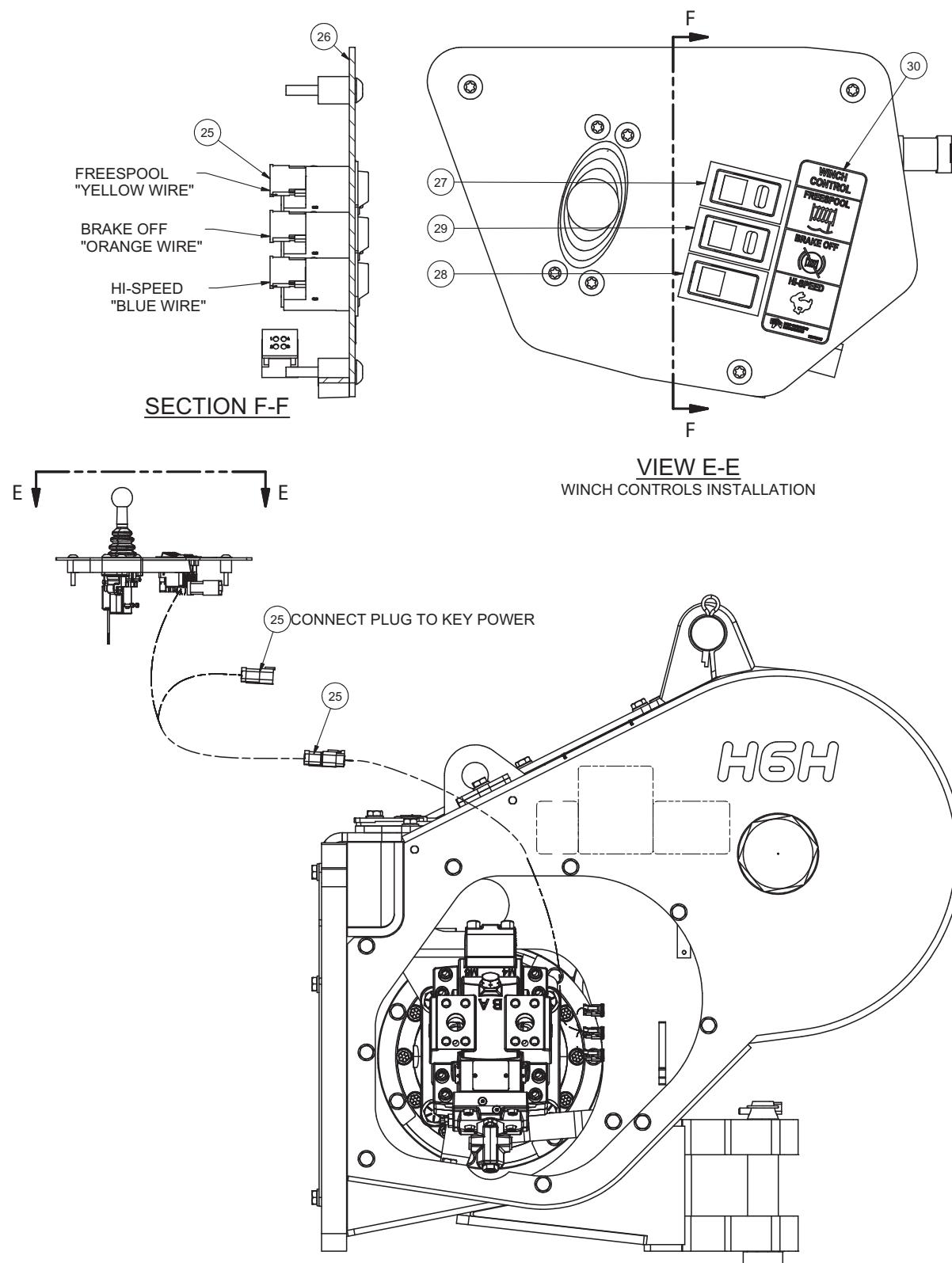
Caterpillar D5 BUILD 17 A/B (C812)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
14	2307104W	2	Fitting	18	R833112	1	Fitting
15	R833803	2	Fitting	19	R833103	1	Fitting
16	*a 2317867	1	Hose Assembly				
17	*a 2317868	1	Hose Assembly				
				*a			Included in Hose Kit 2317933

Electrical Installation

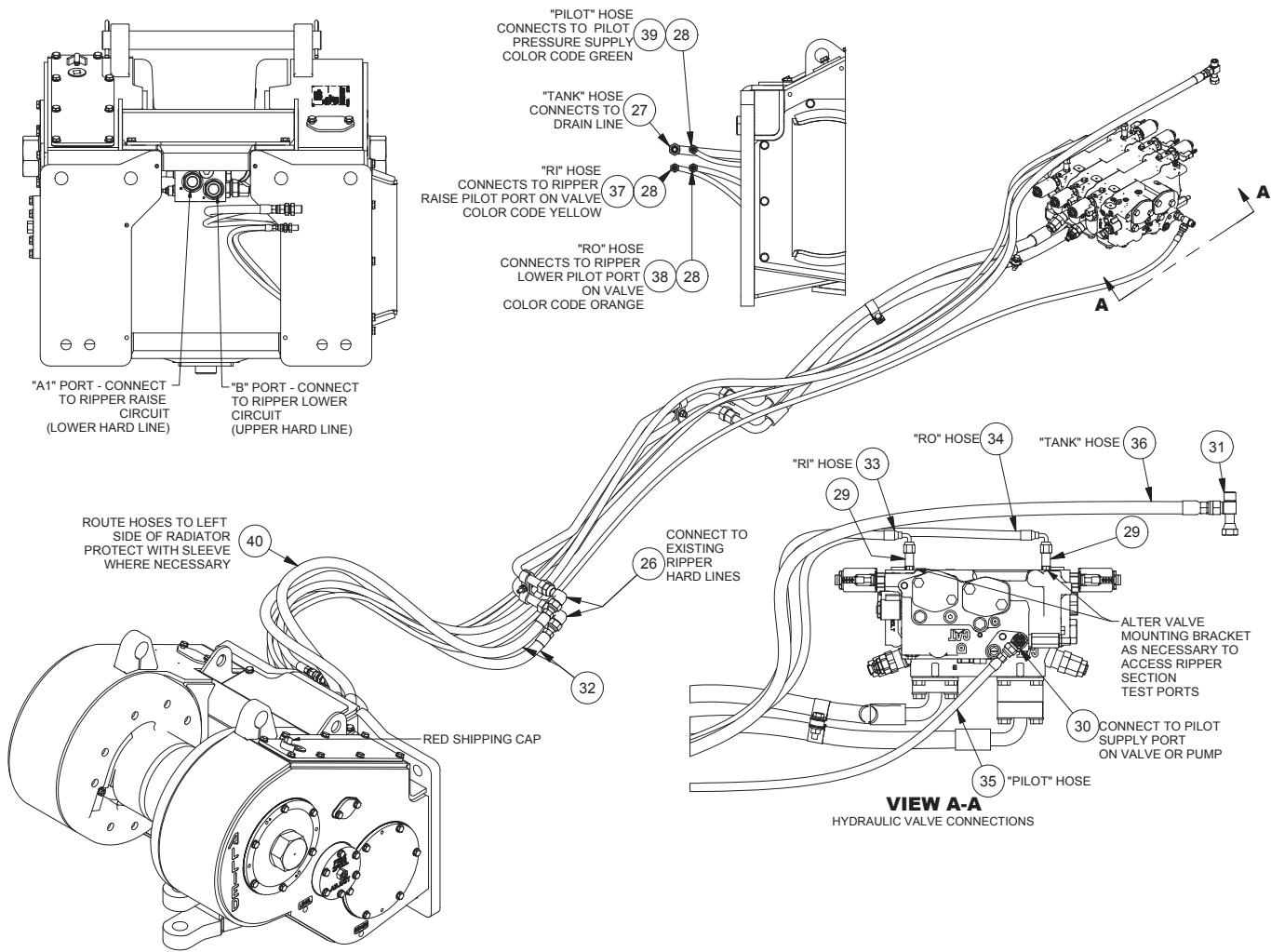
Caterpillar D5 BUILD 17 A/B (C812)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
25	2317878	1	Harness - Wire, Console	28	2311072	1	Switch Assembly (Green)
26	2317880	1	Controls Mount	29	2310504	1	Switch Assembly (Red)
27	2310013	1	Switch Assembly (Yellow)	30	2307054W	1	Decal, Switch Panel

External Hydraulic Group

Caterpillar 963D Track Loader (H6HT1BC963) *b



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
26	R833804	2	Fitting	34	*a	2316103	1	Hose Assembly
27	R834103	1	Fitting	35	*a	2316104	1	Hose Assembly
28	R834100	3	Fitting	36	*a	2316105	1	Hose Assembly
29	2316077	2	Fitting	37	242597	2	Cable Tie	
30	231955	1	Fitting	38	242596	2	Cable Tie	
31	R834052	1	Fitting	39	242598	2	Cable Tie	
32	*a	2316101	2	Hose Assembly	40	255101	10'	Sleeve, Cordura
33	*a	2316102	1	Hose Assembly				

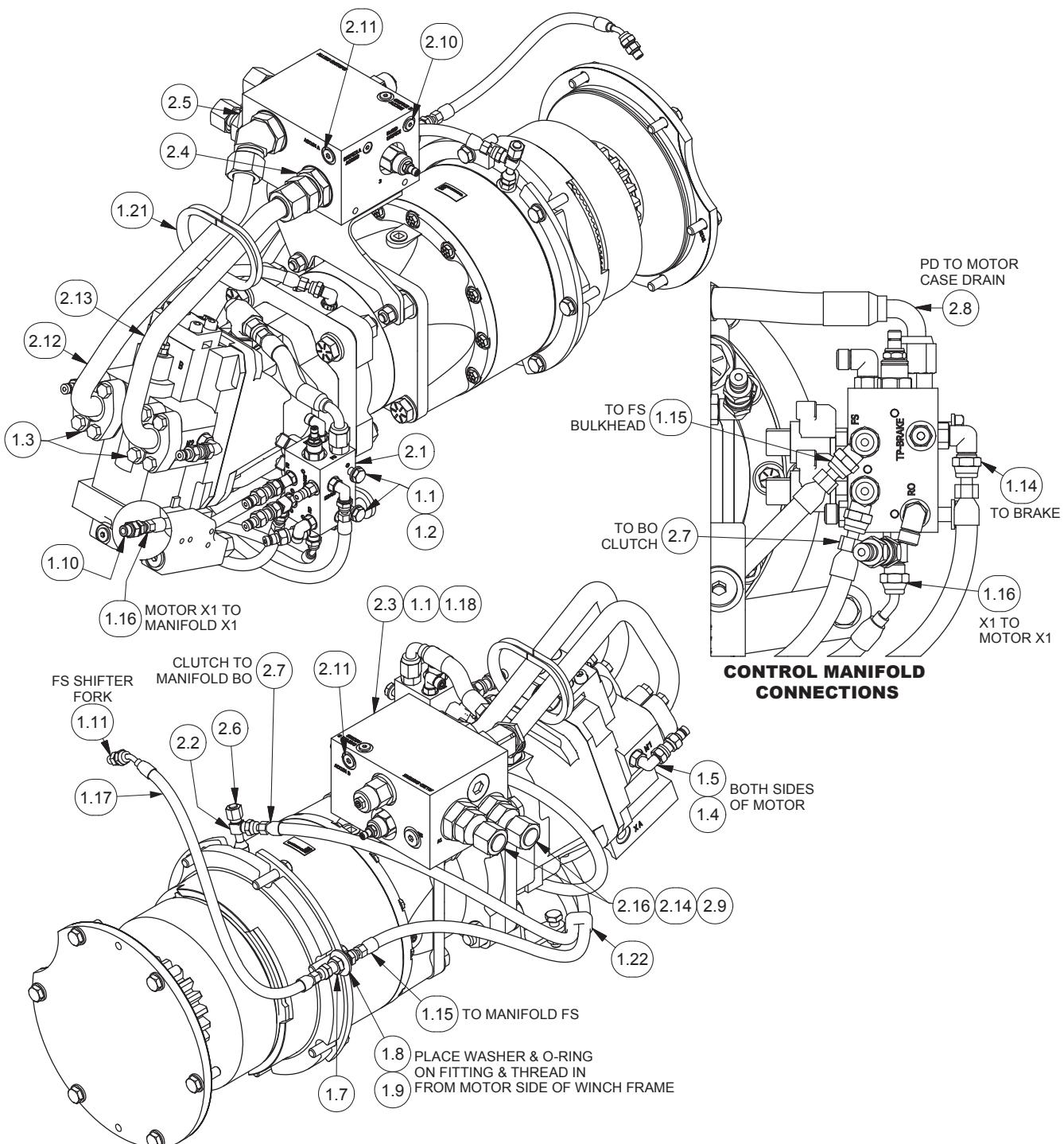
*a Included in Seal Kit 2317934

*b Consult Factory For H6HT1DC963 Parts Information

Hydraulic Installation

Caterpillar 963D Track Loader (H6HT1BC963) *b

Page 1 of 2



* Consult Factory For H6HT1DC963 Parts Information

Hydraulic Installation

Caterpillar 963D Track Loader (H6HT1BC963) *b

Page 2 of 2

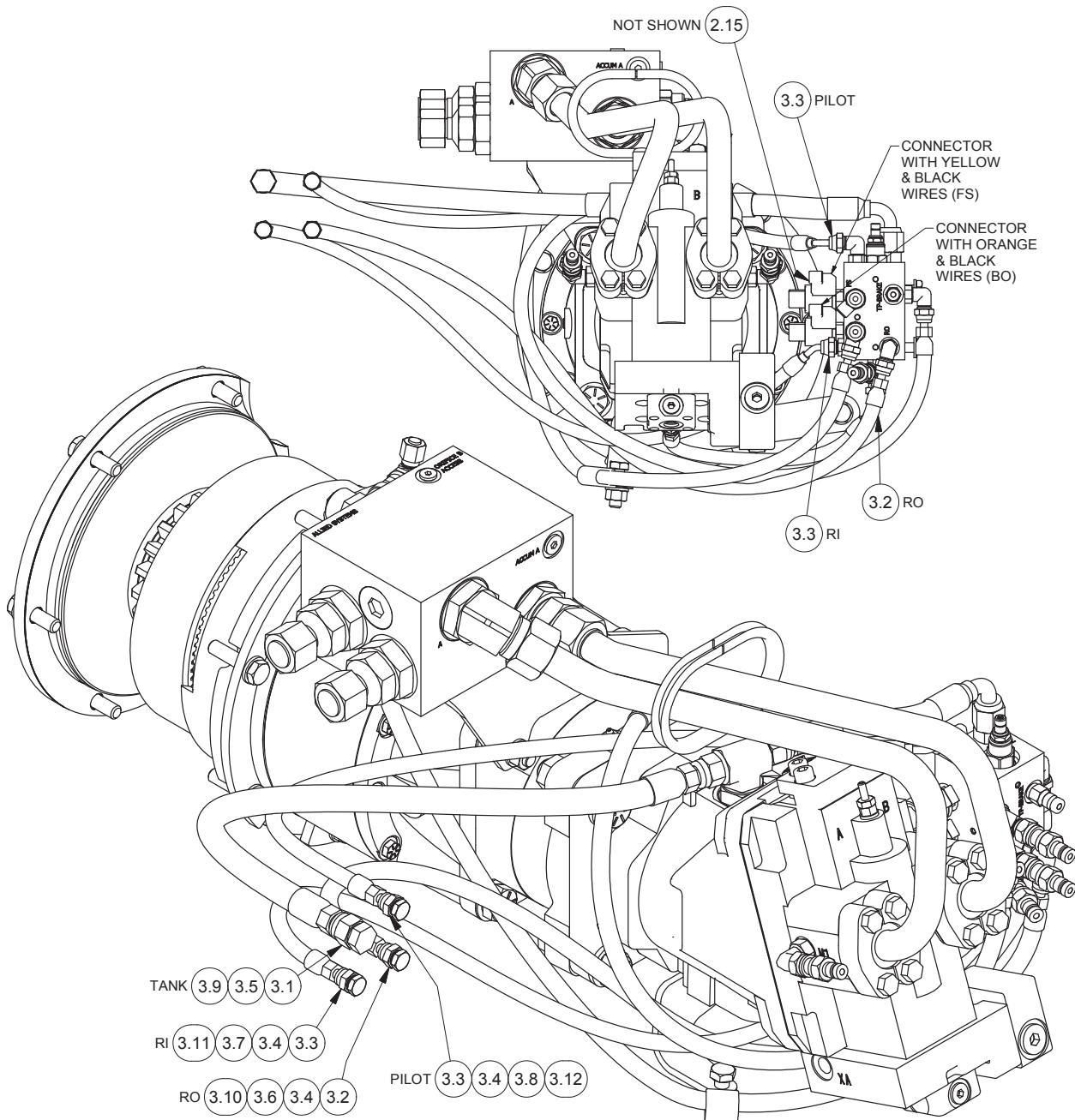
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1.1	Y09C-M1025	4	Capscrew	2.2	236855	1	Fitting	
1.2	296420W	2	Washer	2.3	2314242	1	Assembly - Manifold,	
1.3	229448	2	Kit, Split Flange				Counterbalance Relief	
1.4	2307625W	2	Fitting				(See p. 118)	
1.5	R833253	2	Fitting	2.4	2313948	1	Fitting	
1.7	R834100	1	Fitting	2.5	R833218	1	Fitting	
1.8	15178W	1	Washer	2.6	232984	1	Fitting	
1.9	211564	1	O-Ring	2.7	*a	2312351	1	Hose Assembly
1.10	R833103	1	Fitting	2.8	*a	2313045	1	Hose Assembly
1.11	231439	1	Fitting	2.9	R833133	2	Fitting	
1.14	*a	2312353	1	Hose Assembly	2.10	235387	1	Fitting
1.15	*a	2312350	1	Hose Assembly	2.11	229383	2	Fitting
1.16	*a	2312878	1	Hose Assembly	2.12	2314162	1	Tube Assembly
1.17	*a	2312212	1	Hose Assembly	2.13	2314690	1	Tube Assembly
1.18	221767W	2	Washer	2.14	234191	2	Fitting	
1.21	24257	1'	Trim, Edge	2.15	2316050	1	Wire Harness, Winch	
1.22	2312628	1	Clamp	2.16	231821	2	Fitting	
2.1	2313043	1	Assembly - Manifold, Control (109)		232382	1	. O-Ring	

*a Included in Seal Kit 2317934

*b Consult Factory For H6HT1DC963 Parts Information

Attaching Hydraulics

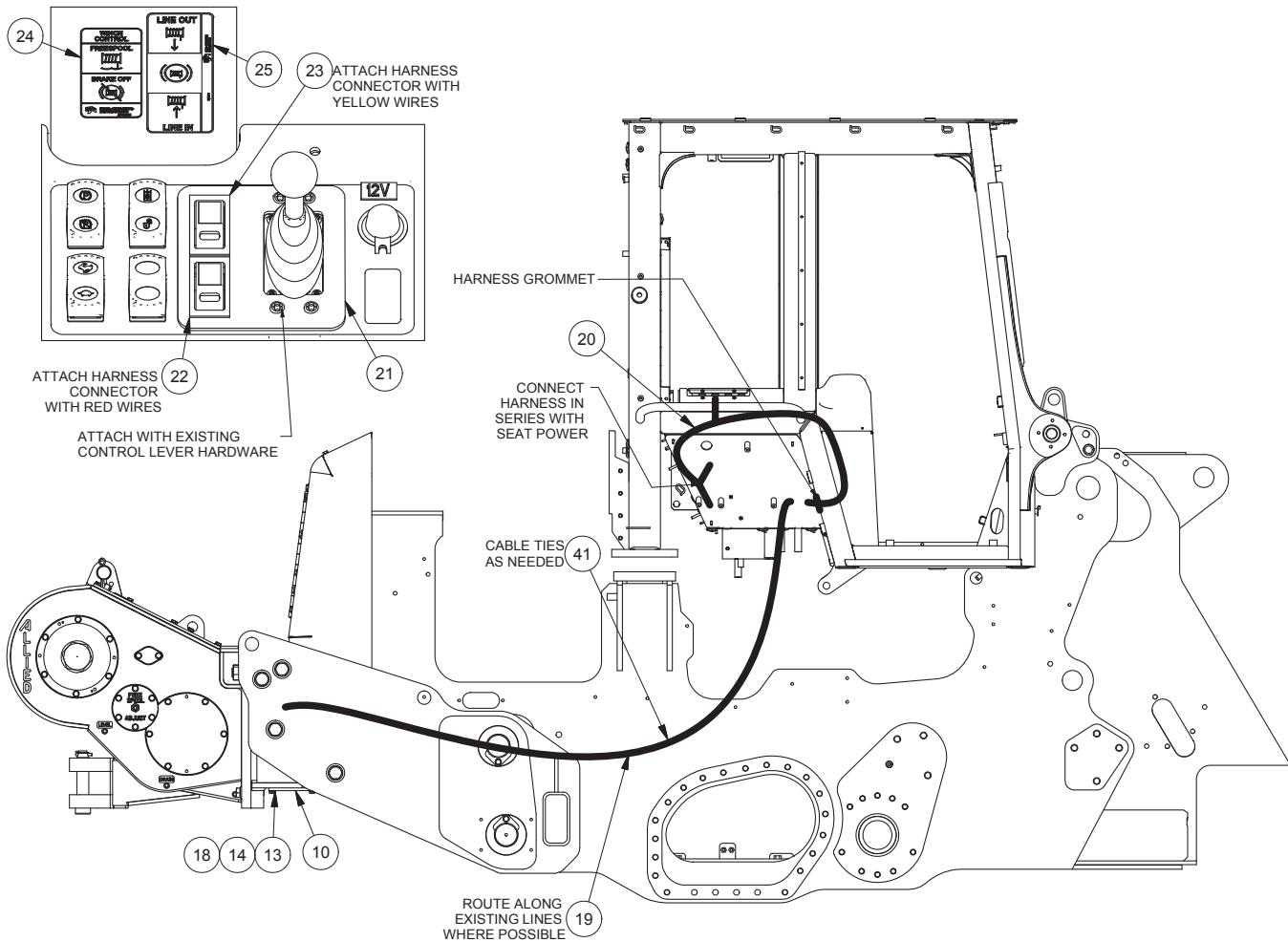
Caterpillar 963D Track Loader (H6HT1BC963) *b



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.15	2316050	1	Wire Harness, Winch	3.8	2307241W	1	Label - Pilot
3.1 *a	049-2392	1	Hose Assembly	3.9	2307242W	1	Label - Tank
3.2 *a	236893	1	Hose Assembly	3.10	242596	1	Cable Tie
3.3 *a	2316081	2	Hose Assembly	3.11	242597	1	Cable Tie
3.4	R834200	3	Fitting	3.12	242598	1	Cable Tie
3.5	232960	1	Fitting	*a Included in Seal Kit 2317934			
3.6	2307238W	1	Label - RO	*b Consult Factory For H6HT1DC963 Parts Information			
3.7	2307239W	1	Label - RI				

Electrical Installation

Caterpillar 963D Track Loader (H6HT1BC963)*

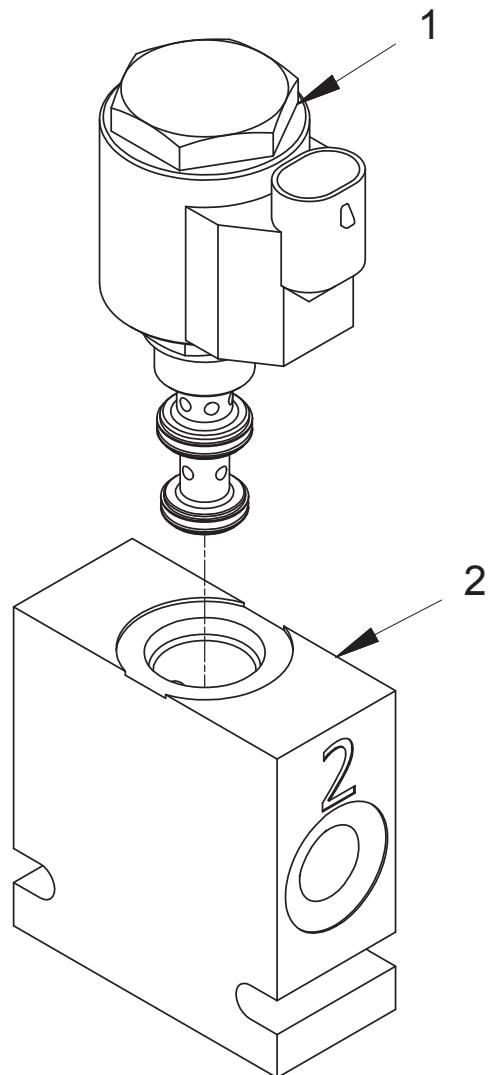


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
10	2316059	1	. Cover Plate - Lower	22	2310504	1	. Switch Assembly
13	296422W	10	. Washer	23	2310013	1	. Switch Assembly
14	292527W	10	. Capscrew	24	2310414	1	. Decal
19	2316069	1	. Wire Harness, Ext	25	2312177	1	. Decal
20	2316070	1	. Wire Harness, Console	41	223872	15	Cable Tie
21	2315593	1	. Plate, Control Mounting				

* Consult Factory For H6HT1DC963 Parts Information

Valve Manifold Assy

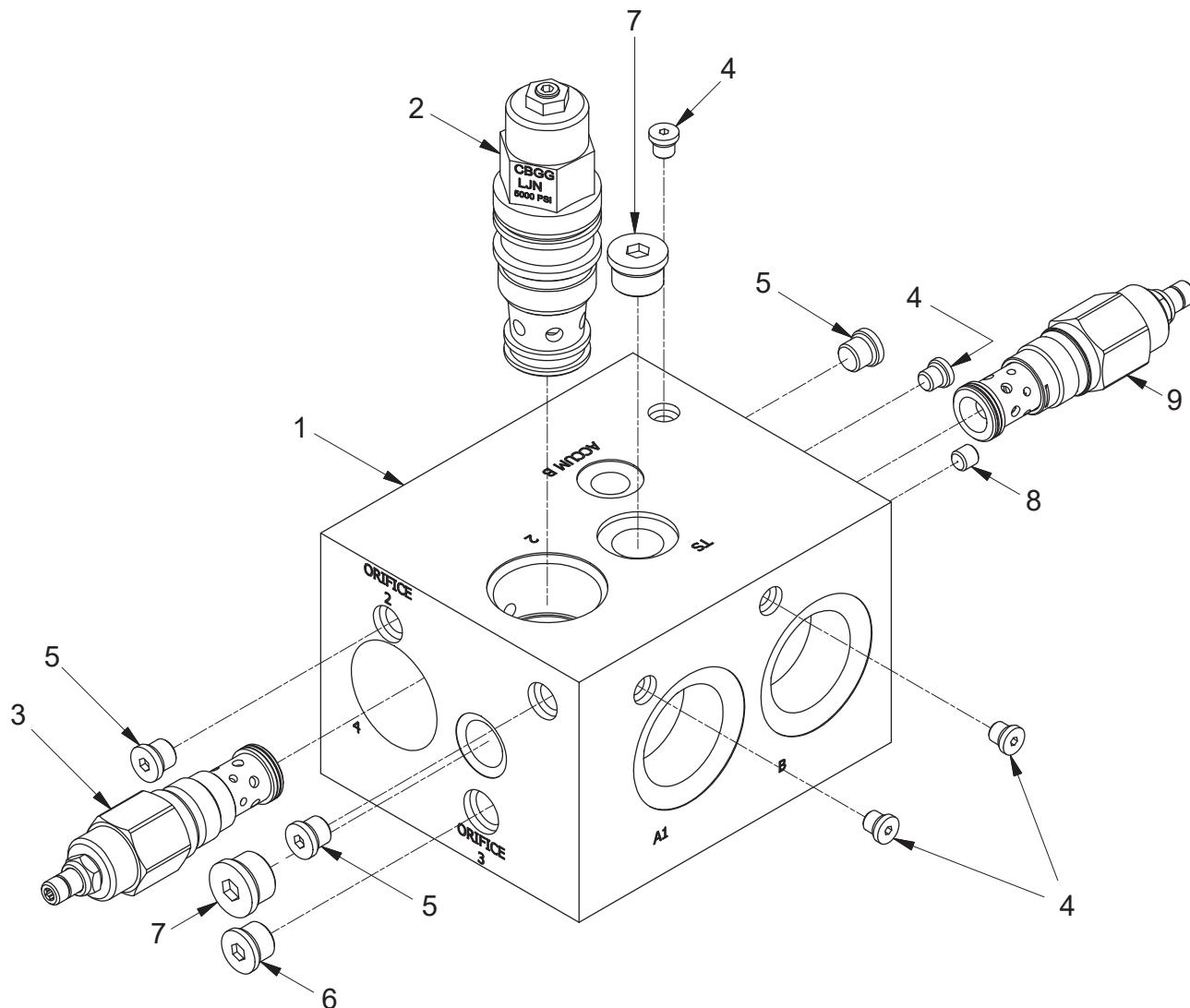
Caterpillar D6N (H6GT*EC81, H6HT*BC81)
 Caterpillar 963D (H6HT1DC963)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2307833W	1	Assy, Valve Manifold				
1	2307834W	1	. Valve, Solenoid Cartridge				
1.1	2307835W	1	.. Valve, Cartridge				
1.2	250589	1	.. Coil, Solenoid				
1.3	R15668	1	.. Kit, Seal				
2	R12973129	1	. Body, Valve				

Counterbalance Relief Manifold Assy

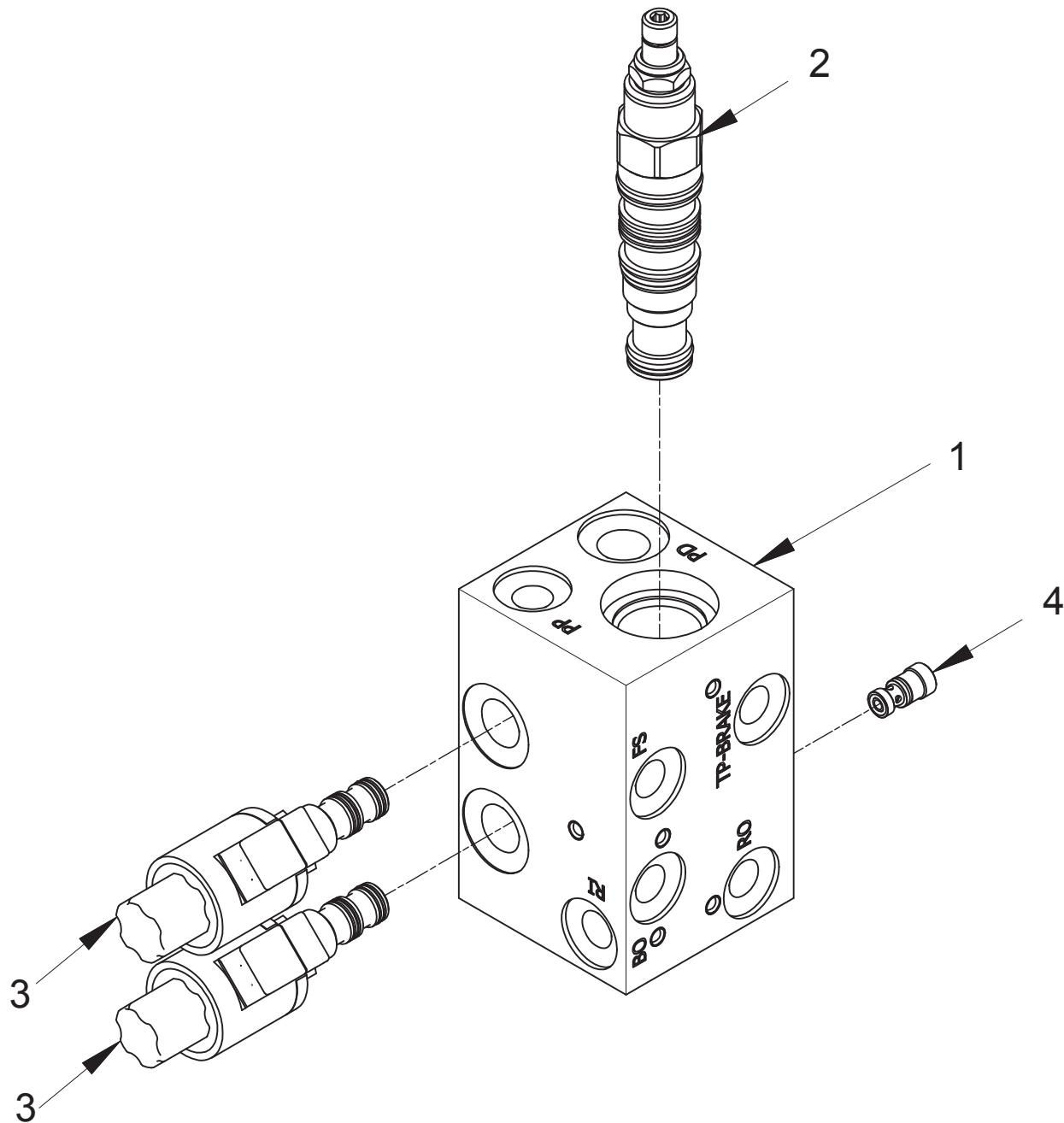
Caterpillar DR Series II, III, D6T (H6H*C71)
 Caterpillar D6/D6XE BUILD 20A (H6H*C712)
 Caterpillar D6N (H6H*C81)
 Caterpillar D6N (H6H*C811)
 Caterpillar D5 BUILD 17 A/B (H6H*C812)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2311718	1	Assy, Counterbalance Relief Manifold				
1	2311719	1	. Body, Manifold	5	235387	3	. Fitting
2	2312068	1	. Valve, Counterbalance	6	229383	1	. Fitting
	243815	1	. . Seal Kit	7	229345	2	. Fitting
3	2307438W-3500	1	. Valve, Relief	8	2310181	1	. Plug, Orifice
	259258	1	. . Kit, Seal	9	2307438W-4100	1	. Valve, Relief
4	242230	4	. Fitting		259258	1	. . Kit, Seal

Control Manifold Assy

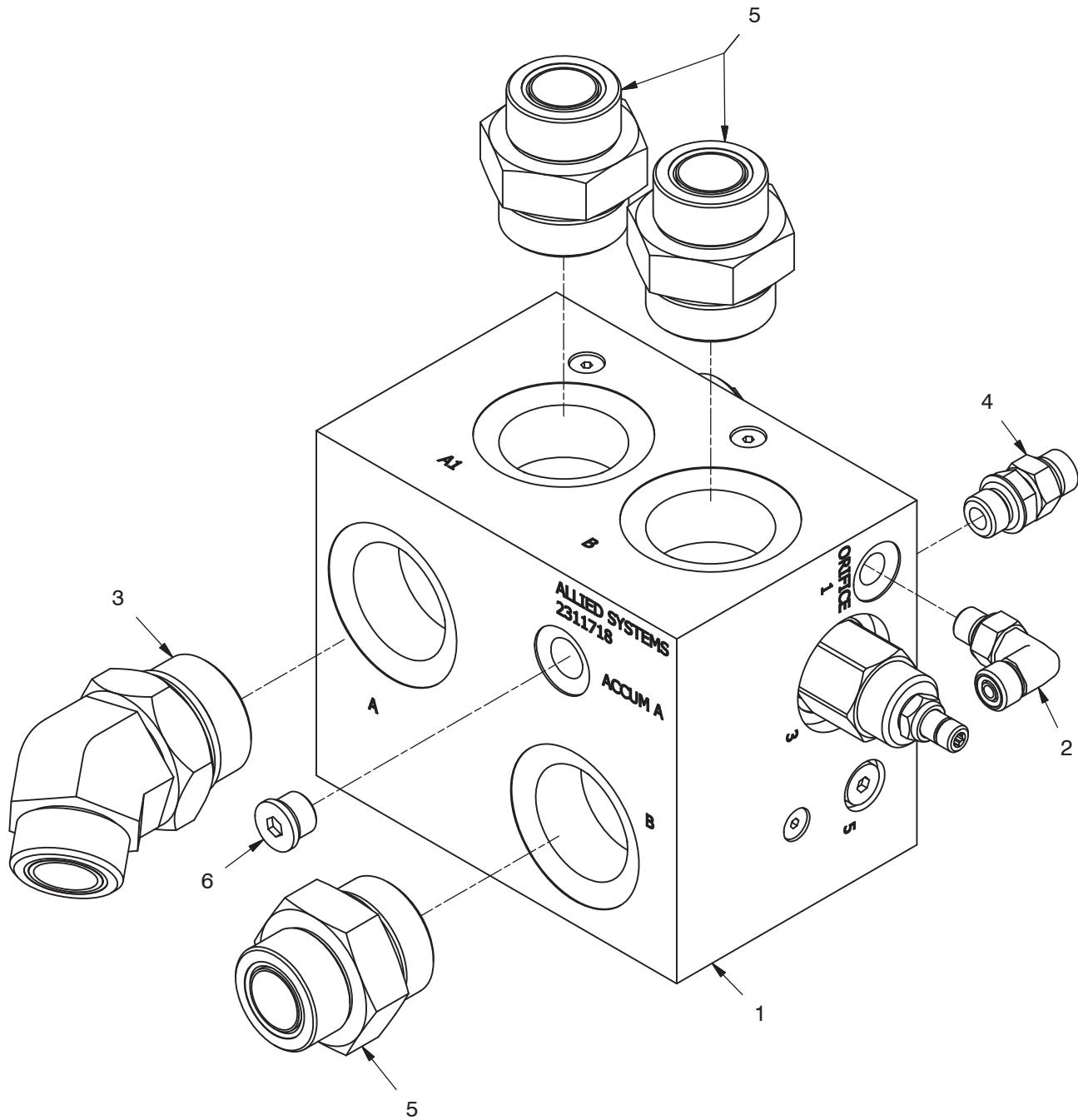
Caterpillar DR Series II, III, D6T (H6HT*C71)
 Caterpillar D6N (H6HT*C81)
 Caterpillar D6K2 T4f (H6HH*C805)
 Caterpillar 963D Track Loader (H6HT*C963)



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		2312112	1	. . Seals, O-Ring
	252566	1	. . Kit, Seal				
3	2312073	2	. Valve, Cartridge				
	2314106	1	. . Base, Valve Cartridge				
	2313984	1	. . Coil				
	2312111	1	. . Kit, Seal				

Counterbalance Relief Manifold Assy

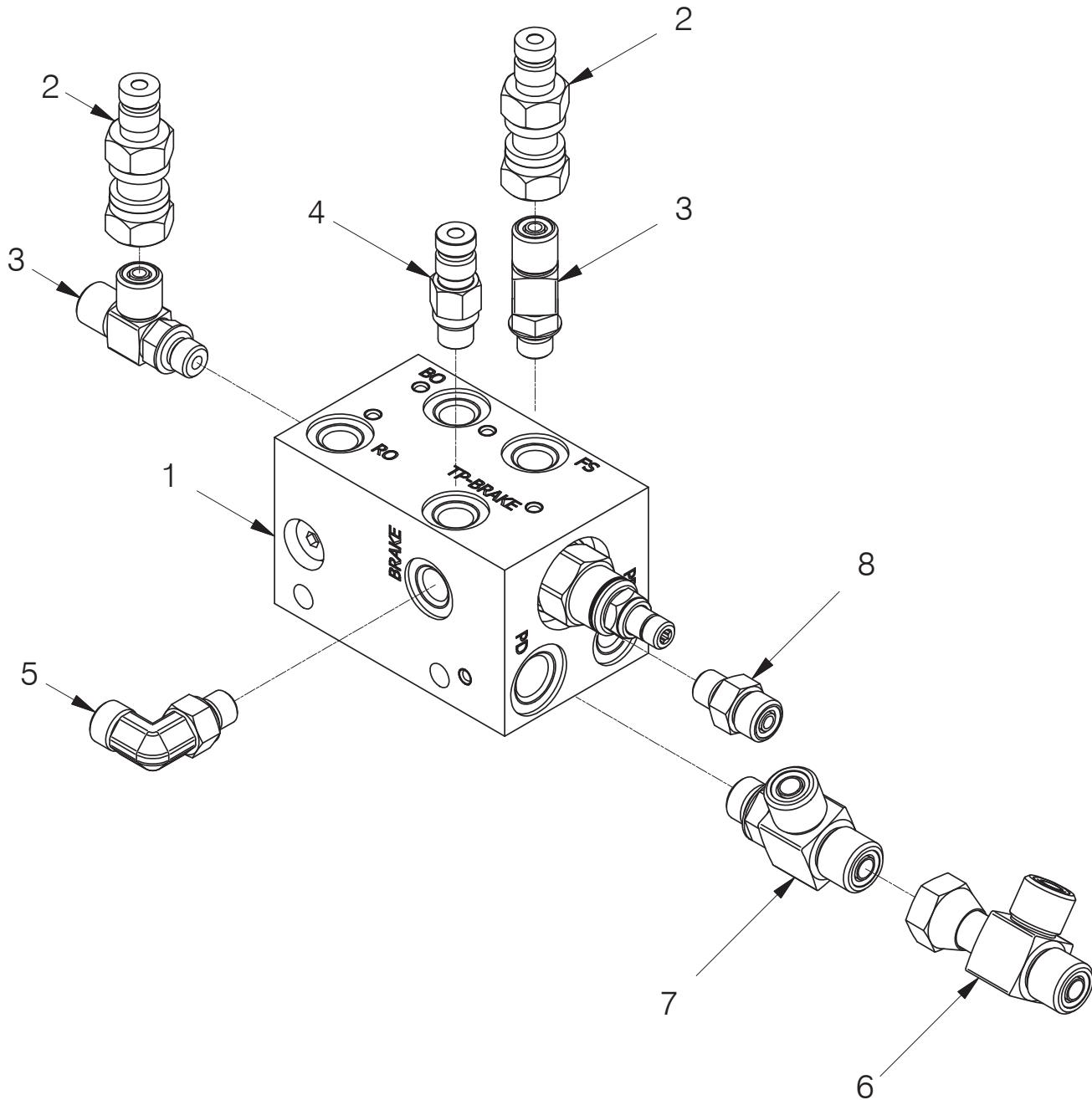
Caterpillar D6N (C81) and (C811)
Last Used on S/N 1496



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2312816	1	Assy, Counterbalance Relief Manifold				
1	2311718	1	. Assy, Counterbalance Relief Manifold (See p. 105)	4	229347	1	. Fitting
				5	R833133	3	. Fitting
2	R833251	1	. Fitting	6	222443W	1	. Fitting
3	R833218	1	. Fitting				

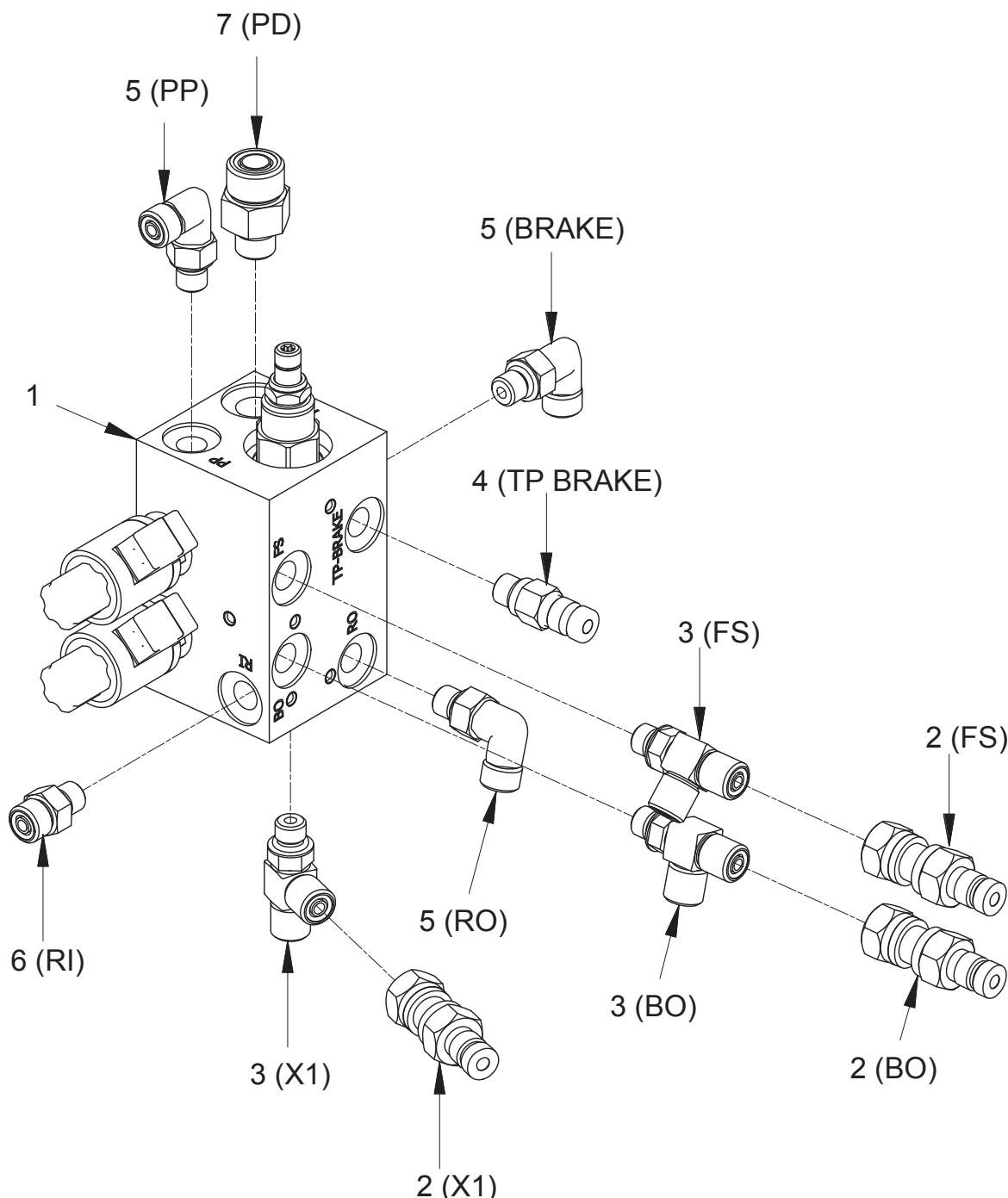
Control Manifold Assy

Caterpillar D6N (C81)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2312908 2311770	1	Assy, Control Manifold . Assy, Control Manifold (See p. 106)	5	R833251	1	. Fitting
2	2307625W	2	. Coupler	6	231955	1	. Fitting
3	R833400	2	. Fitting	7	231465	1	. Fitting
4	R14040	1	. Coupler	8	231439	1	. Fitting

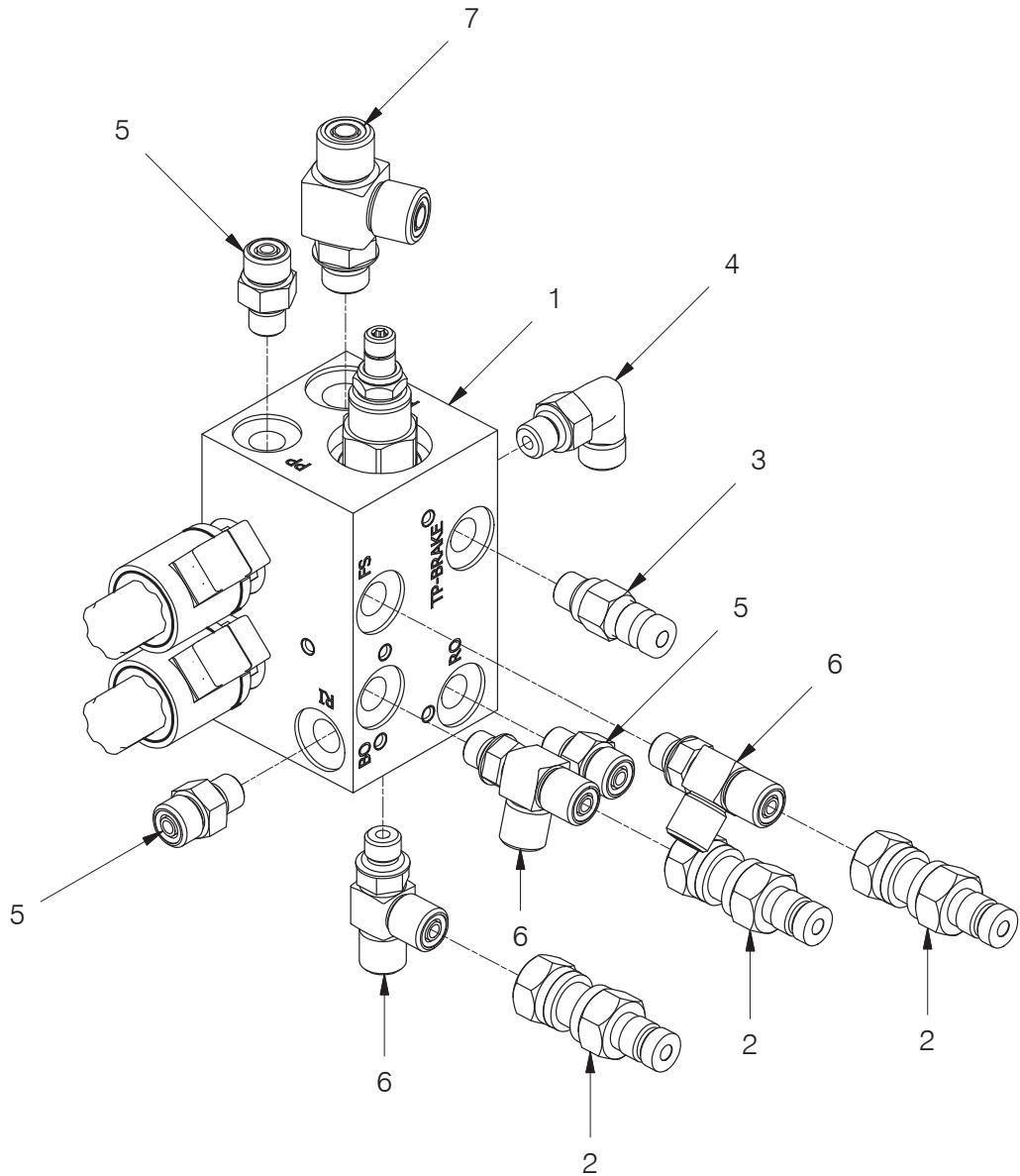
Control Manifold Assy



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2313043 2311770	1	Assy, Control Manifold . Assy, Control Manifold (See p. 106)	5	R833251 6	3	. Fitting
2	2307625W	3	. Coupler	7	R833112	1	. Fitting
3	R833400	3	. Fitting				
4	R14040	1	. Coupler				

Control Manifold Assy

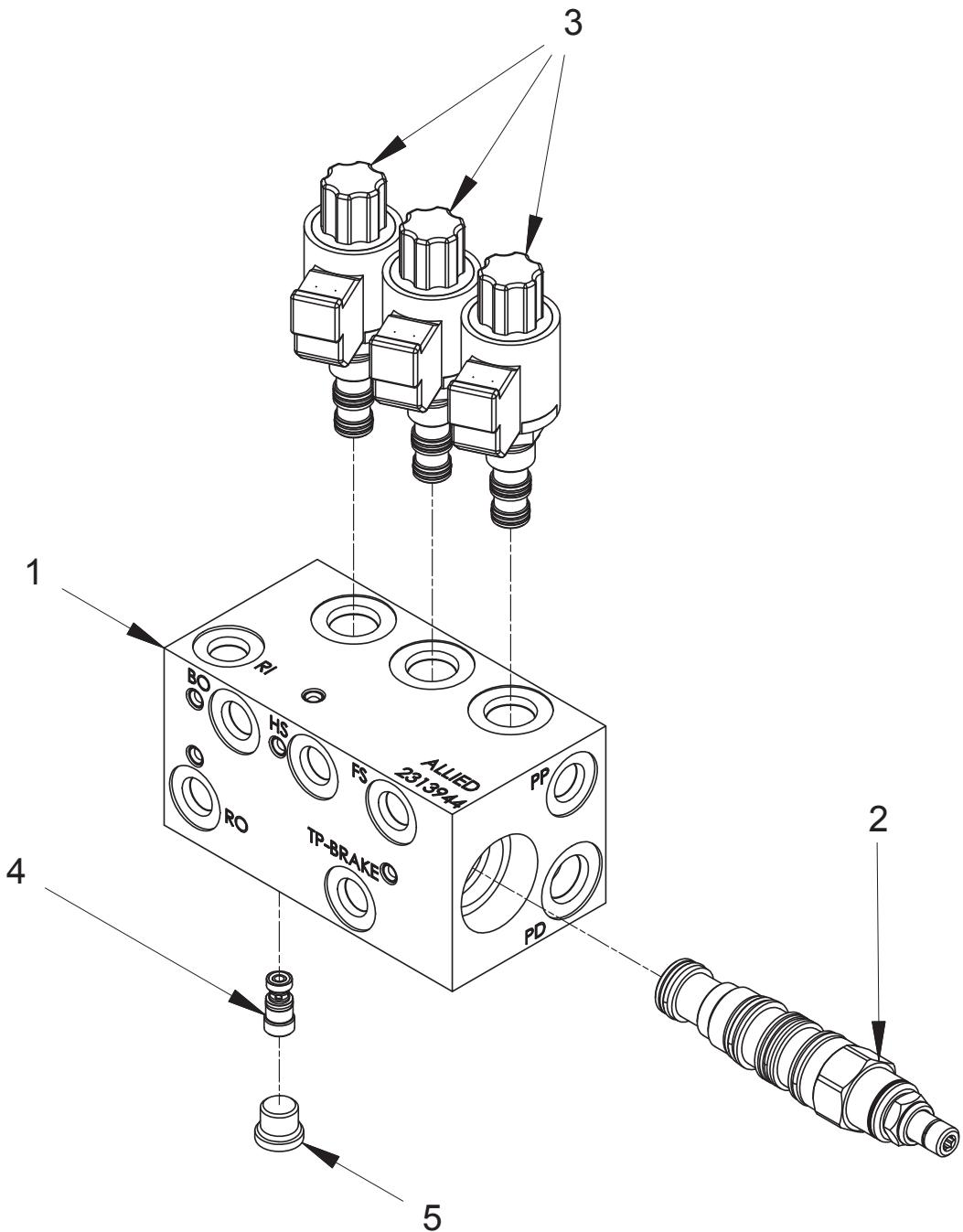
Caterpillar D6T (C71)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2313617 2311770	1	Assy, Control Manifold . Assy, Control Manifold (See p. 106)	5	231439	3	. Fitting
2	2307625W	3	. Coupler, Quick Male	6	R833400	3	. Fitting
3	R14040	1	. Coupler, Quick Male	7	231465	1	. Fitting
4	R833251	1	. Fitting				

Control Manifold Assy

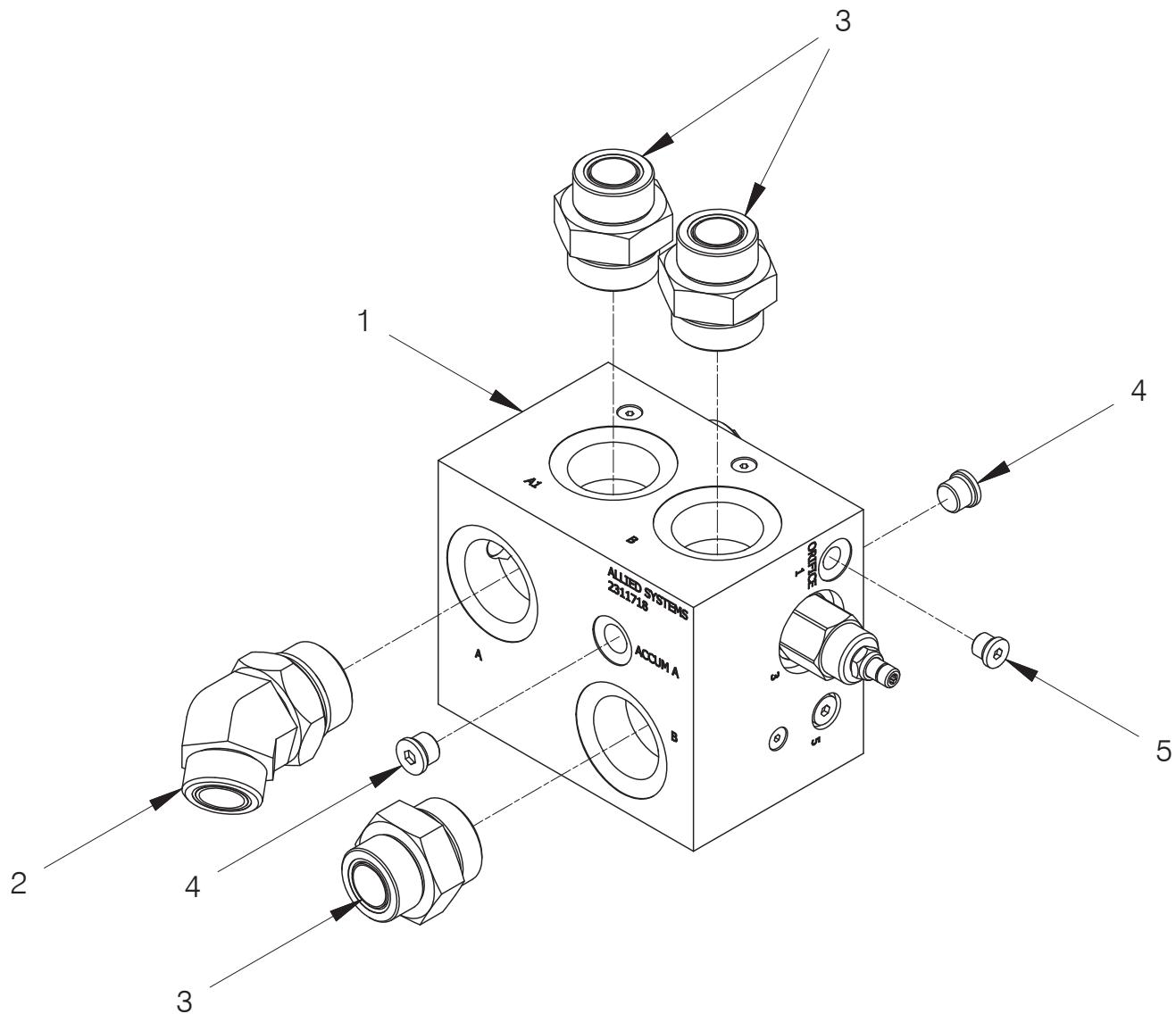
Caterpillar D6/D6XE BUILD 20A (H6HT*C712)
 Caterpillar D6K2 T4f (H6HT*C805)
 Caterpillar D6N (H6HT*C811)
 Caterpillar D5 BUILD 17 A/B (H6HT*C812)



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

Counterbalance Relief Manifold Assy

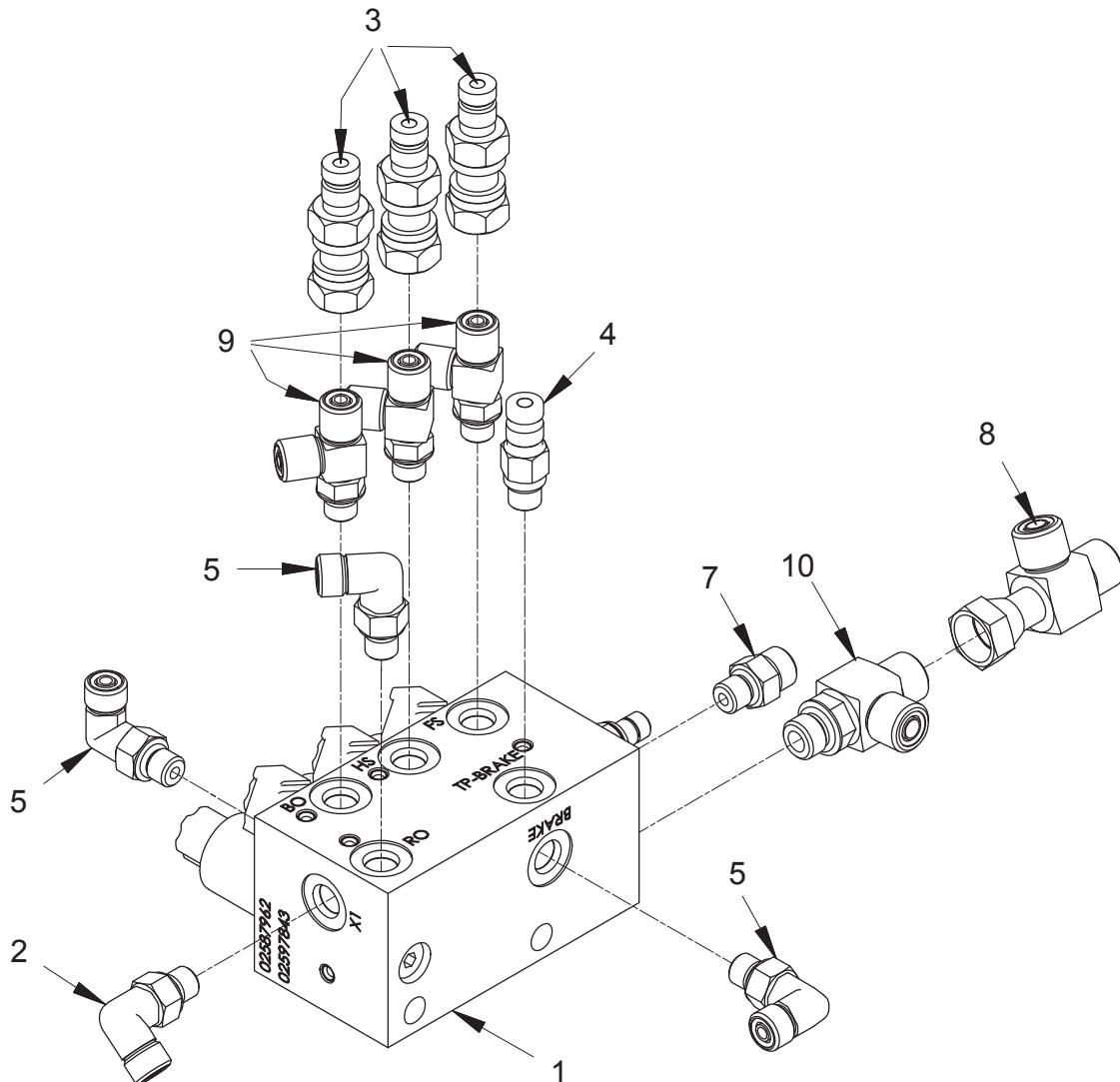
Cat (H6HT*DC811)
non-current



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2313959	1	Assy, Counterbalance Relief Manifold				
1	2311718	1	. Assy, Counterbalance Relief Manifold (See p. 105)	3	R833133	3	. Fitting
2	R833218	1	. Fitting	4	229383	2	. Fitting
				5	235387	1	. Fitting

Control Manifold Assy

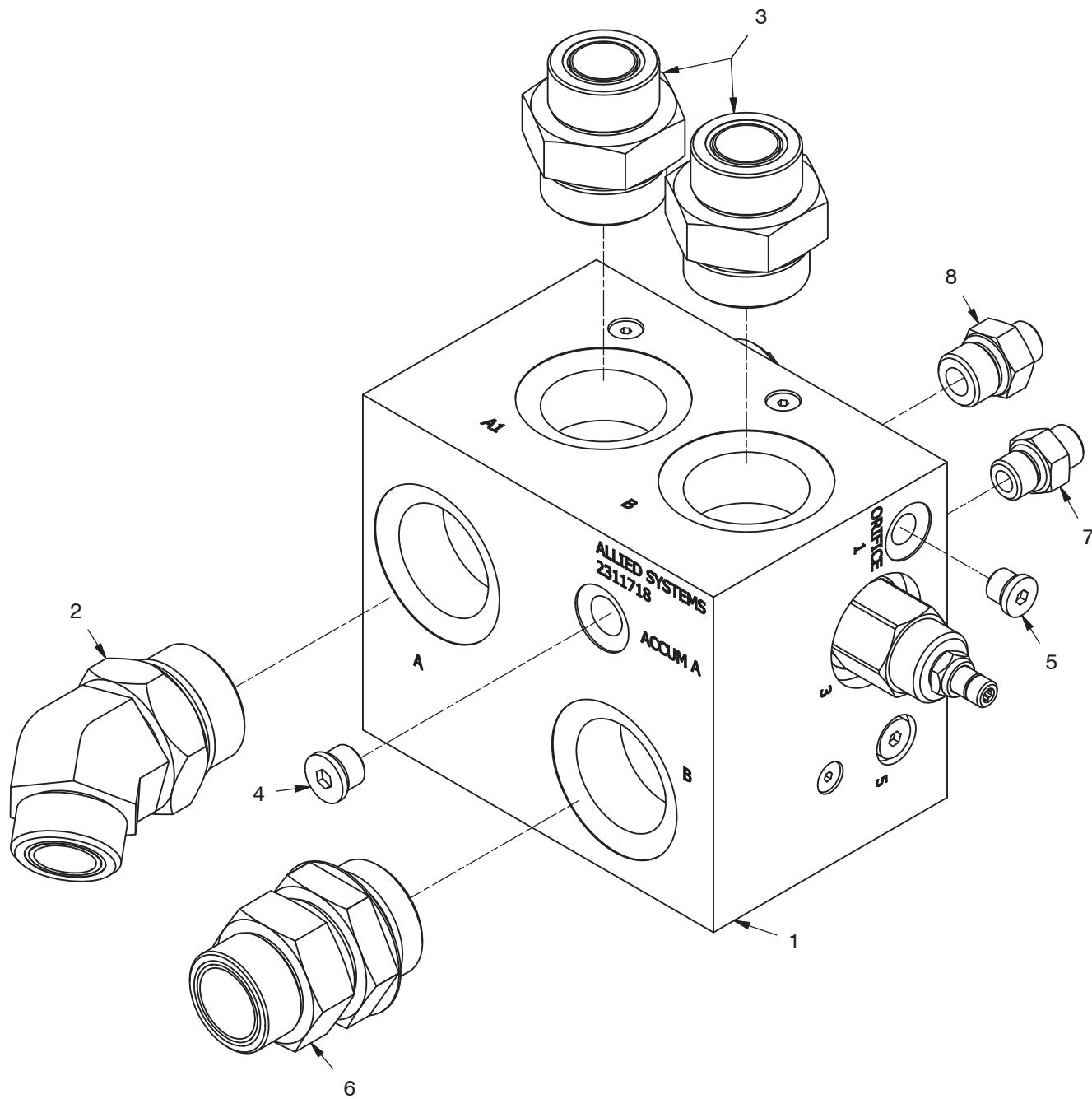
Caterpillar D6N (C811)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2313960	1	Assy, Control Manifold				
1	2313944	1	. Assy, Control Manifold (See p. 111)	7	231439	1	. Fitting
2	2311500	1	. Assy, Fitting	8	231955	1	. Fitting
3	2307625W	3	. Fitting	9	R833400	3	. Fitting
4	R14040	1	. Coupler, Quick Male	10	231465	1	. Fitting
5	R833251	3	. Fitting				

Counterbalance Relief Manifold Assy

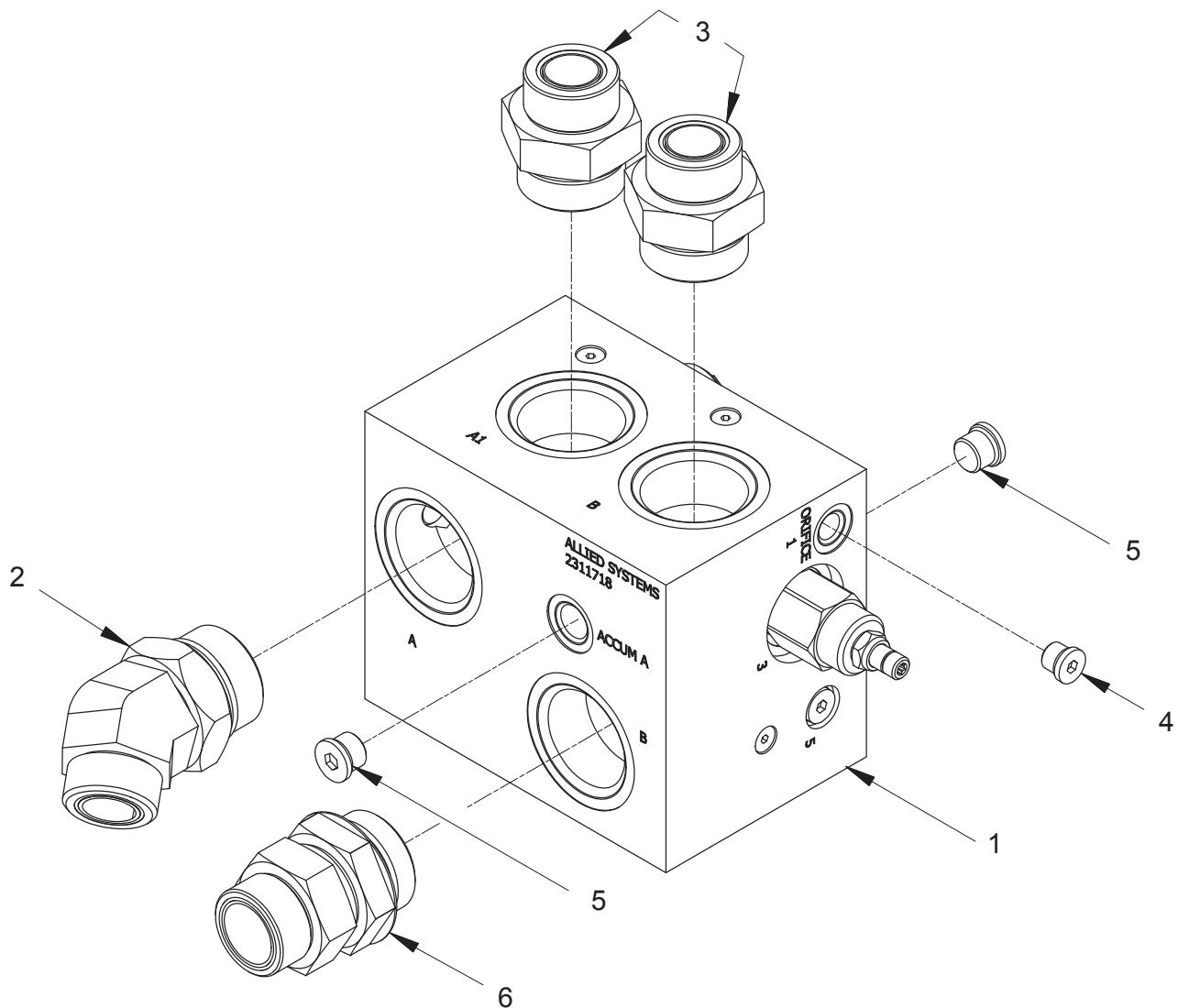
Caterpillar D6N (C811)
First Used on S/N 1497



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314727	1	Assy, Counterbalance Relief Manifold				
1	2311718	1	. Assy, Counterbalance Relief Manifold (See p. 105)	4	229383	1	. Fitting
				5	235387	1	. Fitting
2	R833218	1	. Fitting	6	2313948	1	. Fitting
3	R833133	2	. Fitting	7	R833103	1	. Fitting
				8	R833104	1	. Fitting

Manifold Assy

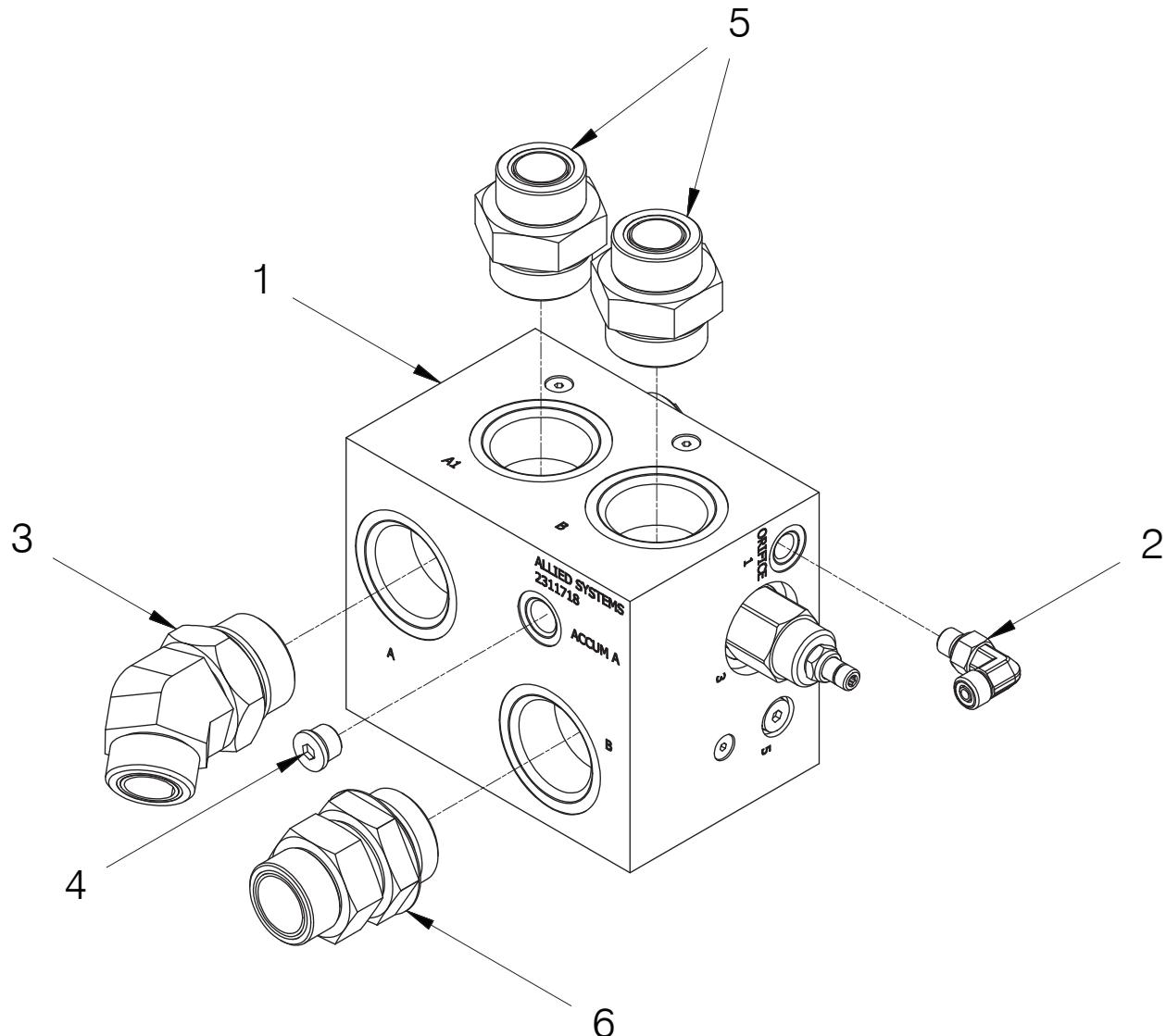
First Used on S/N H6H-1497



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314691	1	Assy, Manifold				
1	2311718	1	. Assy, Counterbalance Relief Manifold (See p. 105)	4	235387	1	. Fitting
2	R833218	1	. Fitting	5	229383	2	. Fitting
3	R833133	2	. Fitting	6	2313948	1	. Fitting

Counterbalance Relief Manifold Assy

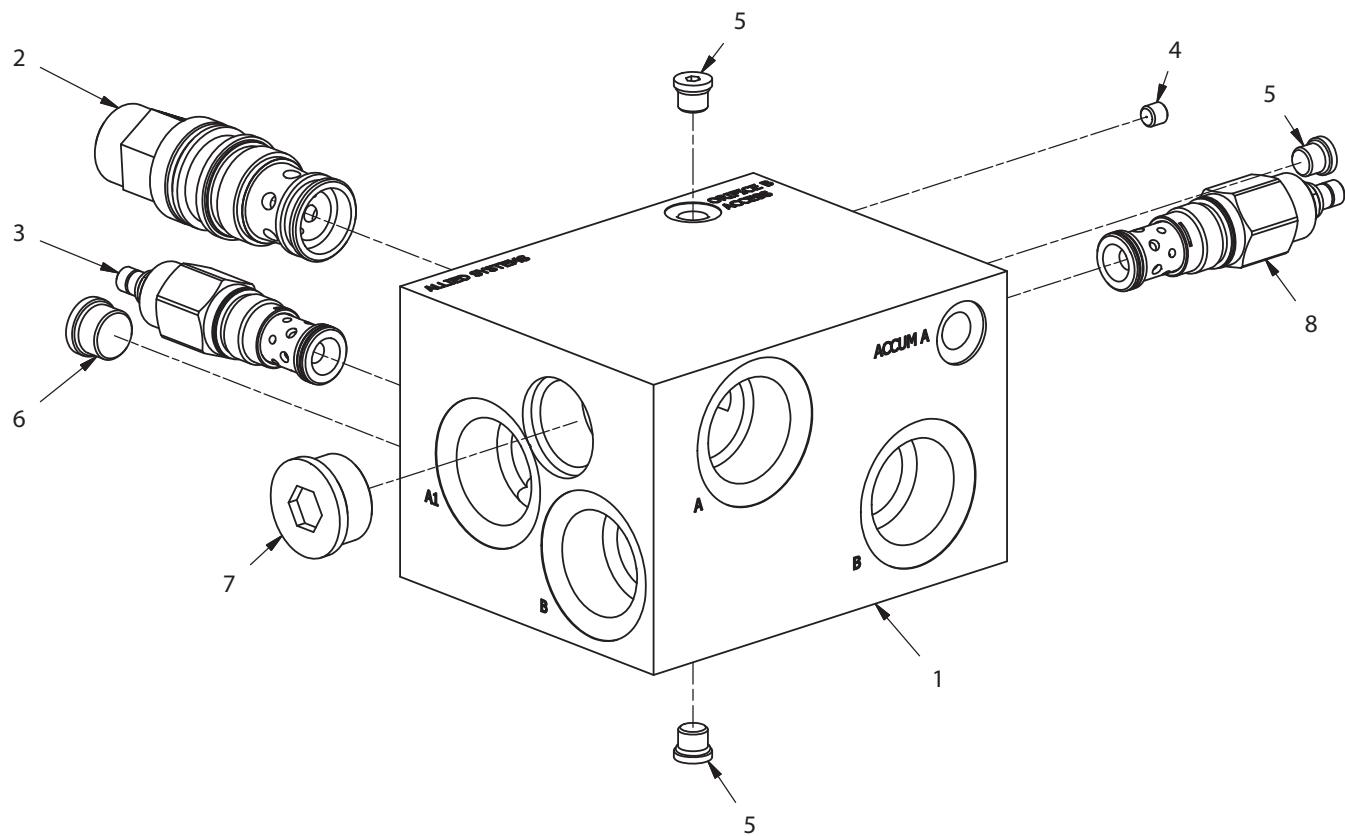
Caterpillar D6N (C81)
First Used on S/N 1497



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	2314965	1	Assy, Counterbalance Relief Manifold	3	R833218	1	. Fitting
	2311718	1	. Assy, Counterbalance Relief Manifold (See p. 105)	4	229383	2	. Fitting
				5	R833133	2	. Fitting
2	R833251	1	. Fitting	6	2313948	1	. Fitting

Counterbalance Relief Manifold Assy

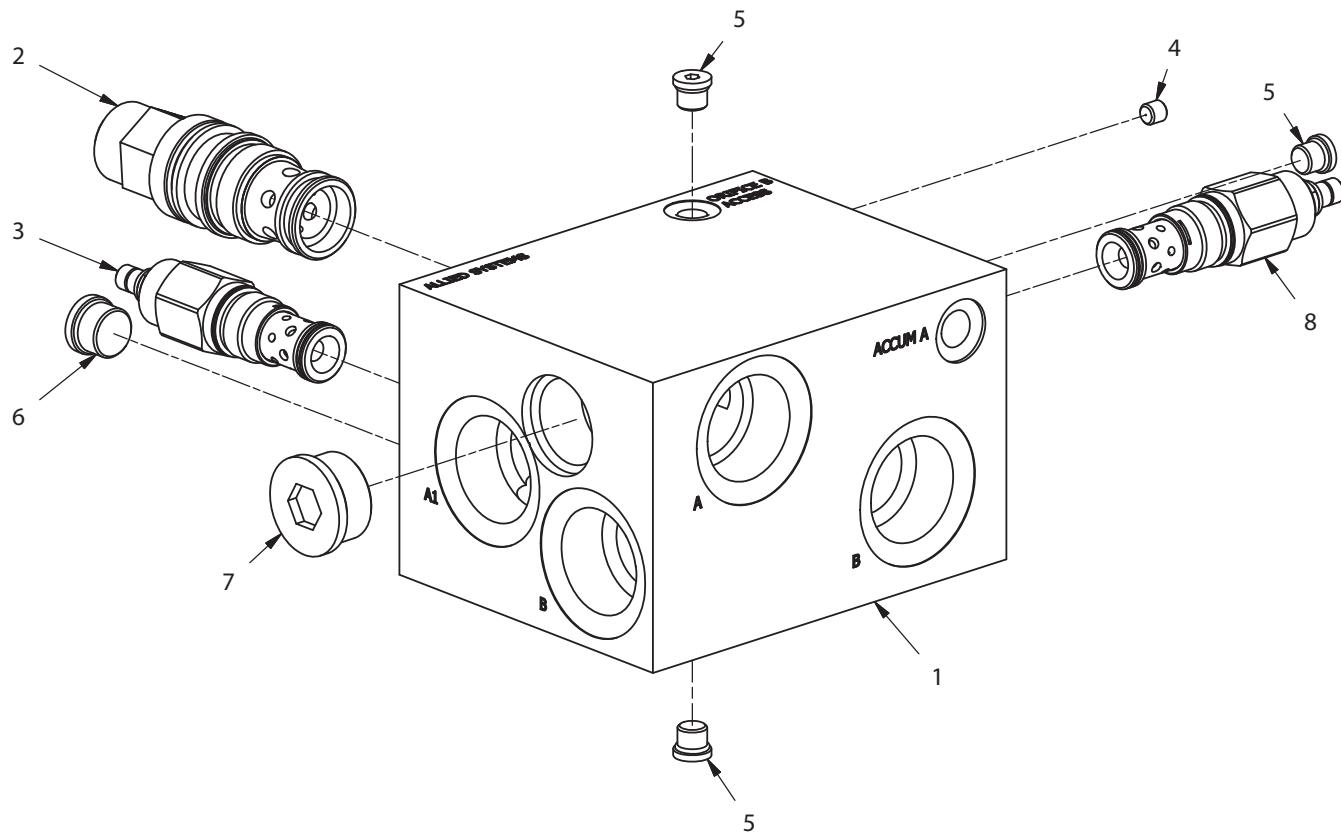
Caterpillar D6K2 T4f (H6HT*C805)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2312941	1	Assy, Counterbalance Relief Manifold	4	2310181	1	. Plug
1	2312940	1	. Manifold - Body, CBR	5	235387	3	. Fitting
2	2312068	1	. Valve, Counterbalance	6	229345	1	. Fitting
	243815	1	. . Seal Kit	7	227949	1	. Fitting
3	2307438W-3500	1	. Relief Valve	8	2307438W-4250	1	. Relief Valve
	259258	1	. . Seal Kit		259258	1	. . Seal Kit

Counterbalance Relief Manifold Assy

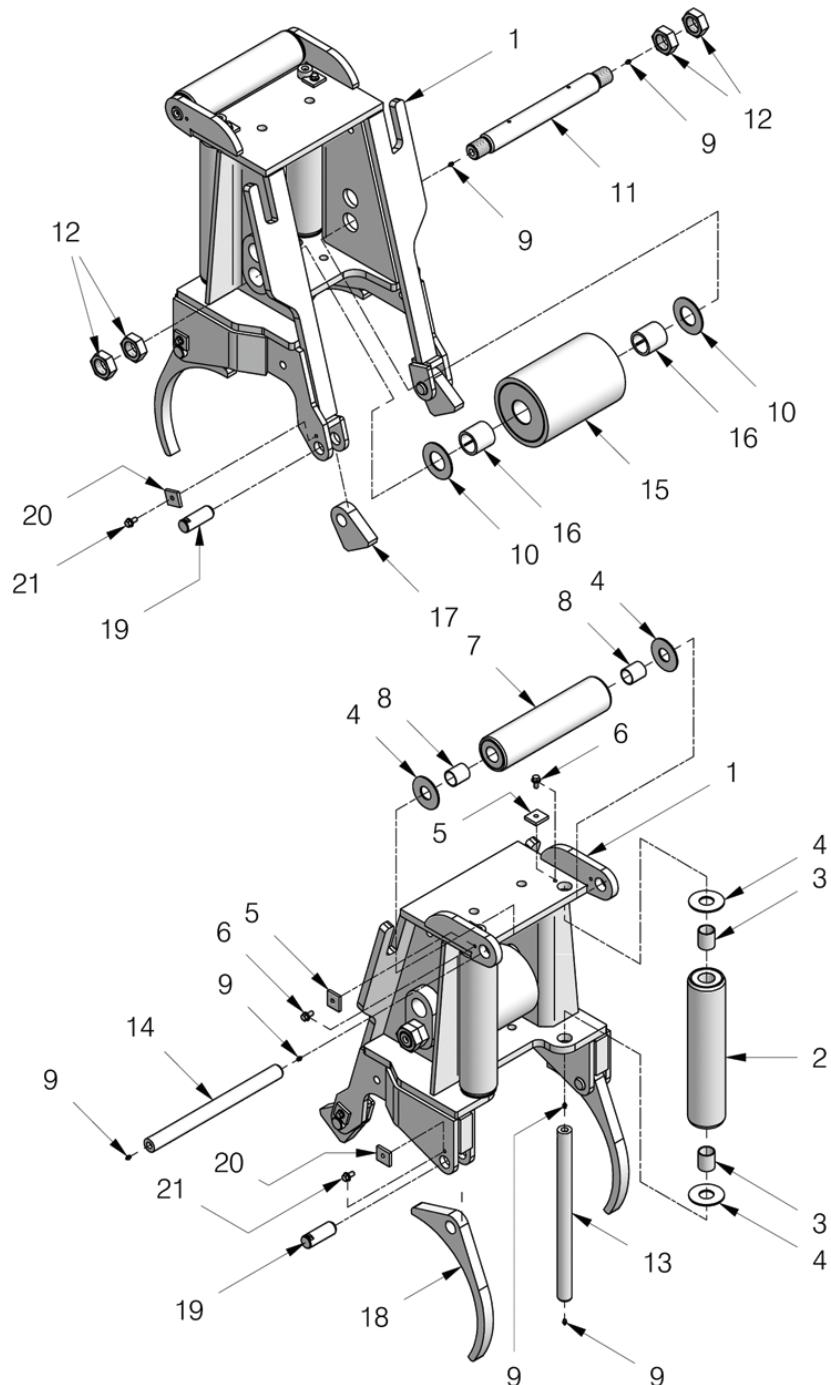
963D Track Loader (C963)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314242	1	Assy, Counterbalance Relief Manifold	4	2310181	1	. Plug
1	2312940	1	. Manifold - Body, CBR	5	235387	3	. Fitting
2	2312068	1	. Valve, Counterbalance	6	229345	1	. Fitting
	243815	1	.. Seal Kit	7	227949	1	. Fitting
3	2307438W-3500	1	. Relief Valve	8	2307438W-3600	1	. Relief Valve
	259258	1	.. Seal Kit		259258	1	.. Seal Kit

Section 4

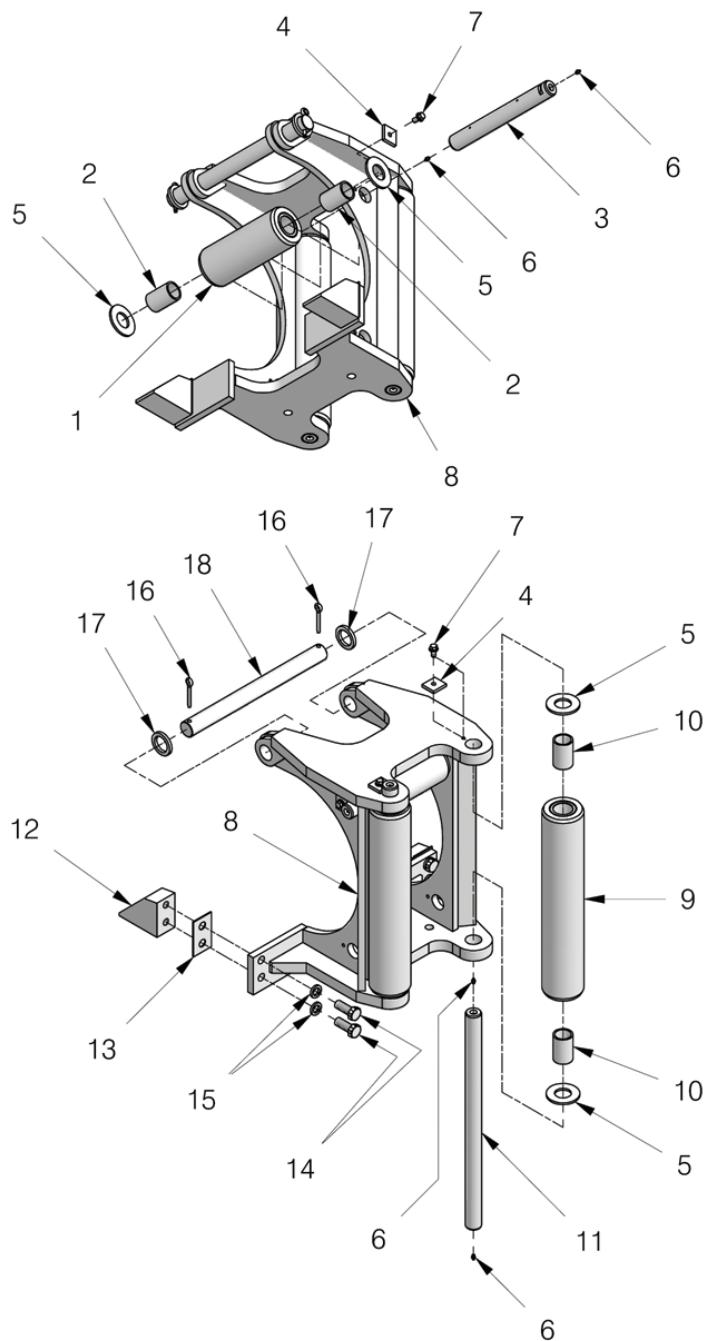
Optional Equipment

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

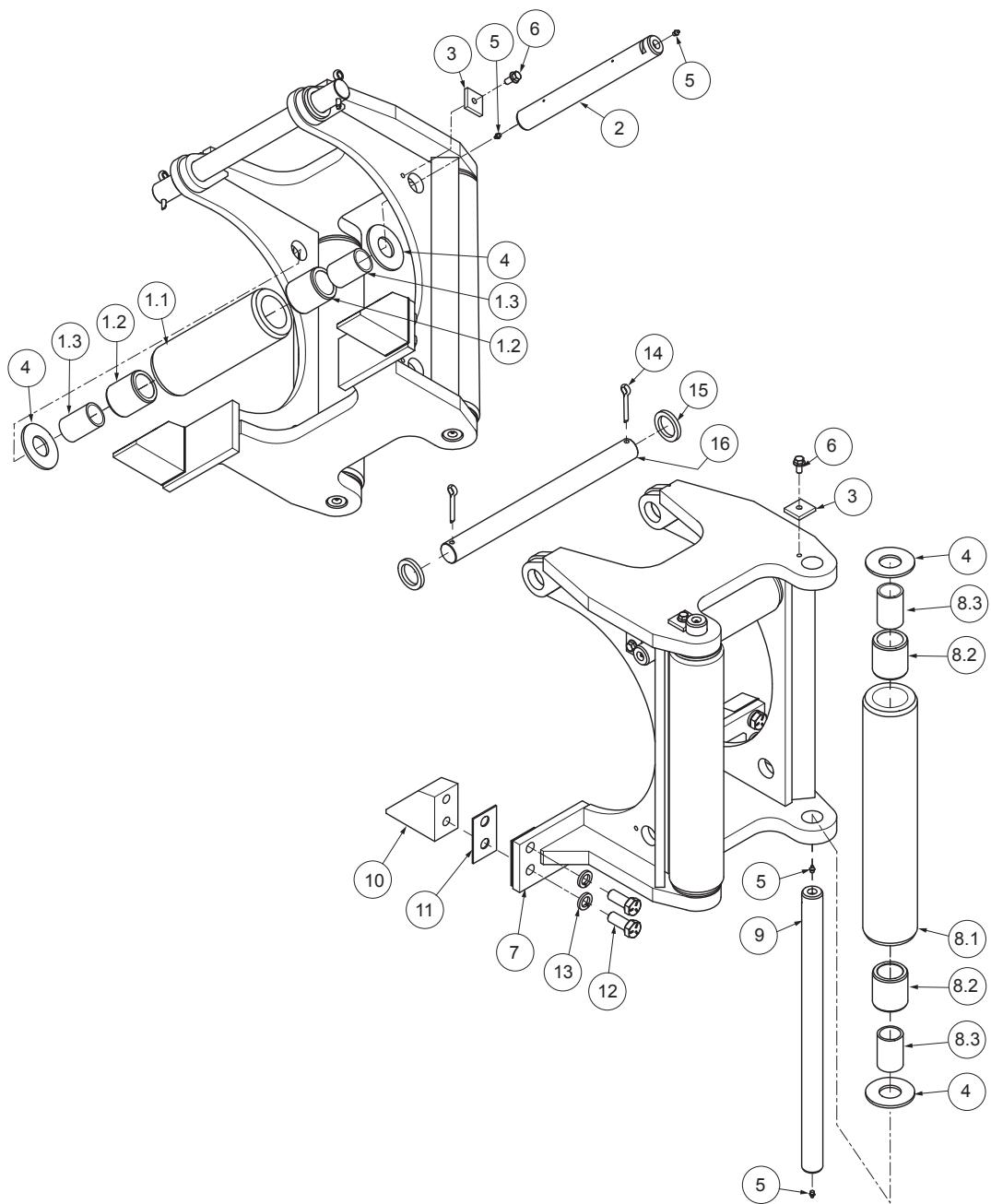
3-Roller, Last Used S/N 1609



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
Fairlead Assembly, 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

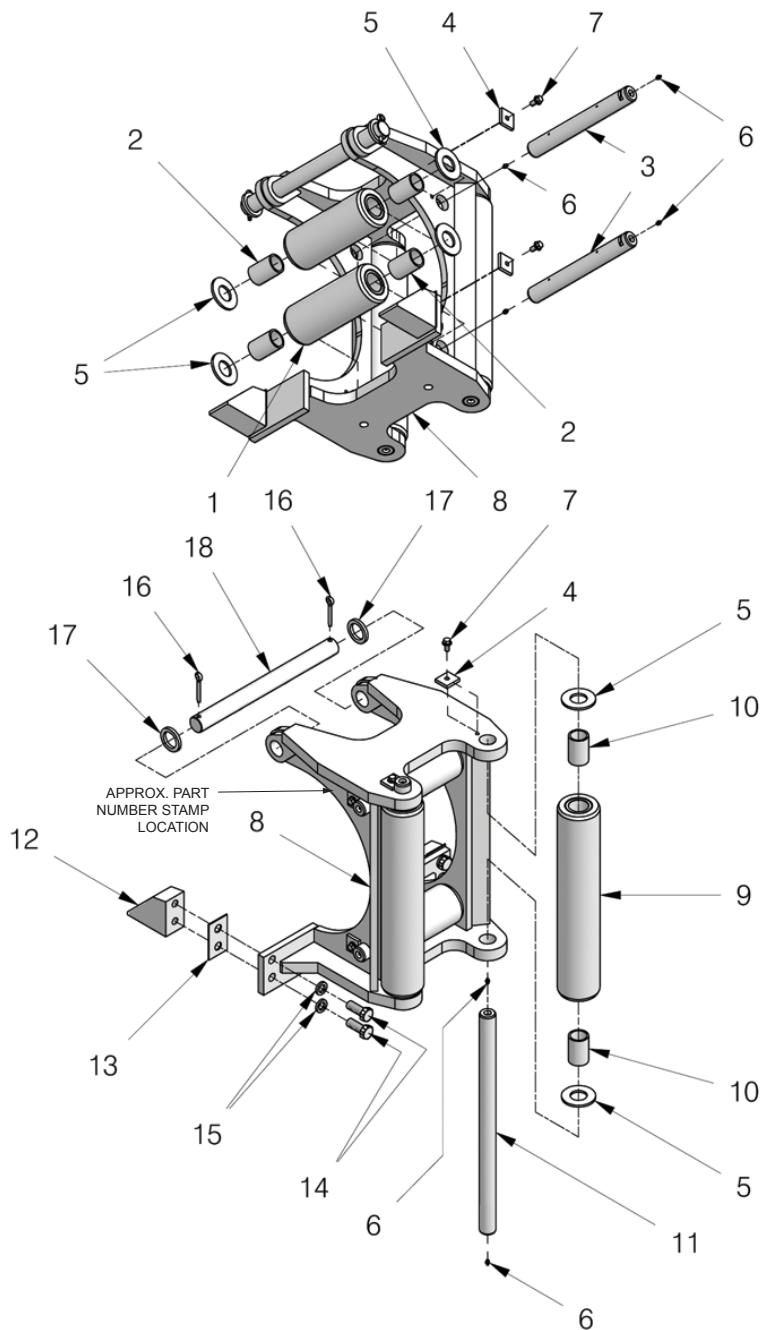
3-Roller, First Used S/N 1610



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

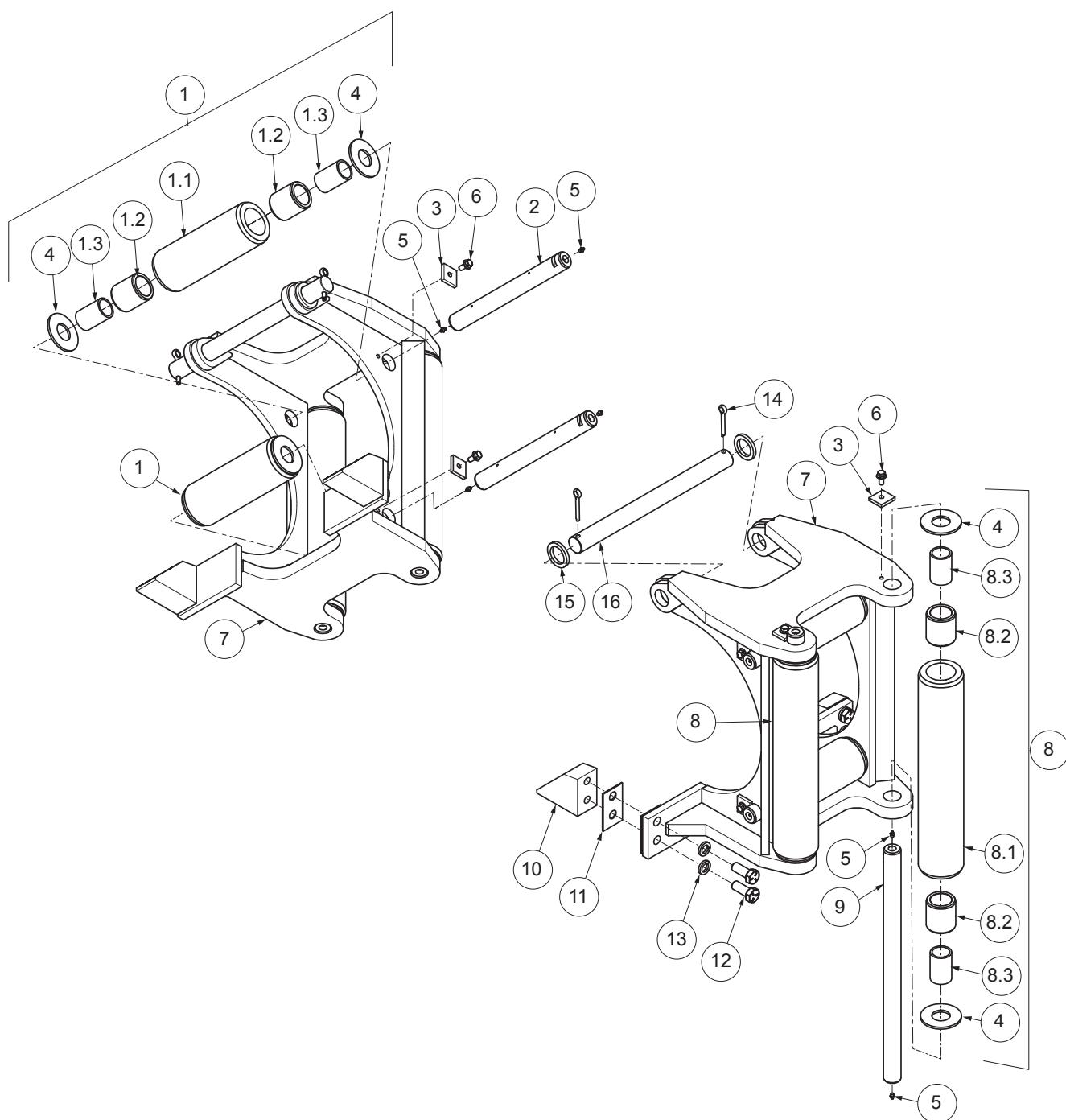
4-Roller, Last Used S/N 1609



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
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

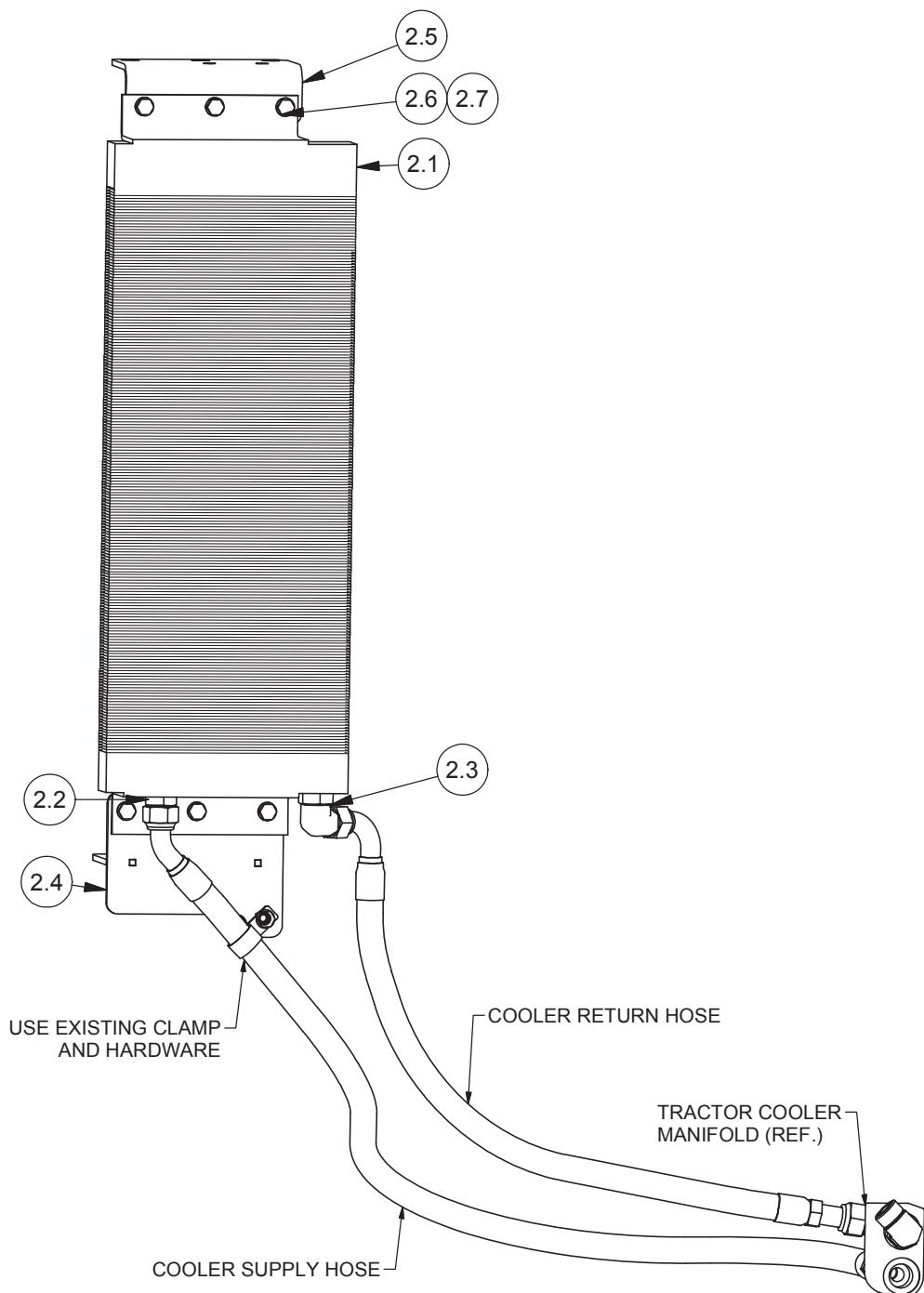
4-Roller, Wide, First Used S/N 1610



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

Optional Hydraulic Cooler Installation

Caterpillar D6N (H6HT**C81, C811)



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
2.1	2307695W	1	Cooler, Oil	2.5	2307696W	1	Bracket, Upper
2.2	231443	1	Fitting	2.6	136985W	6	Capscrew
2.3	R833270	1	Fitting	2.7	296420W	6	Washer
2.4	2307898W	1	Assy, Lower Bracket				

Wire Rope Assemblies

Wire Rope Drum End



Junior Ferrule

Wire Rope Loose End Options



Tail Chain & Hook (TC)



Wedge Socket (WS)



Open Spelter Socket (OS)

Part Number	Wire Rope Diameter	Wire Rope Type	Loose End Type	Loose End Rating (lbs)	Length (ft)	Weight (lbs)	Drum Fill	Wire Rope Breaking Strength (lbs)
WR6-275L	3/4"	EIPS	TC	34,200	275	306	2/3	58,800
WR6-413L					413	450	Full	
YS6-275LWS		EEIPS	WS	51,840	275	306	2/3	64,800
YS6-413LWS					413	450	Full	
WR7-198L	7/8"	EIPS	TC	34,200	198	311	2/3	79,600
WR7-297L					297	451	Full	
YS7-198LWS		EEIPS	WS	70,080	198	311	2/3	87,600
YS7-297LWS					297	451	Full	
WR8-154L	1"	EIPS	TC	47,700	154	384	2/3	103,400
WR8-230L					230	449	Full	
YS8-154LWS		EEIPS	WS	91,040	154	384	2/3	113,800
YS8-230LWS					230	459	Full	
YS8-154LOS		EEIPS	OS	113,800	154	385	2/3	
YS8-230LOS					230	459	Full	

Section 5

Recommended Service Intervals & Kits

Recommended Winch Service Intervals and Kits

Following the service schedule recommended here to help keep tractor 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 tractor's hour meter or the length of time the winch is mounted to the tractor, whichever occurs first.

*** Follow tractor schedule if using tractor filter.

Recommended Gear Compartment Oil					
Caterpillar	TO-4	Consult service/operating manual for low temperature oils and other details. Use of non-recommended oil may void the warranty.			
Chevron	Drive Train Fluids HD	Consult service/operating manual for low temperature oils and other details. Use of non-recommended oil may void the warranty.			
ExxonMobil	Mobiltrans HD Series	Consult service/operating manual for low temperature oils and other details. Use of non-recommended oil may void the warranty.			

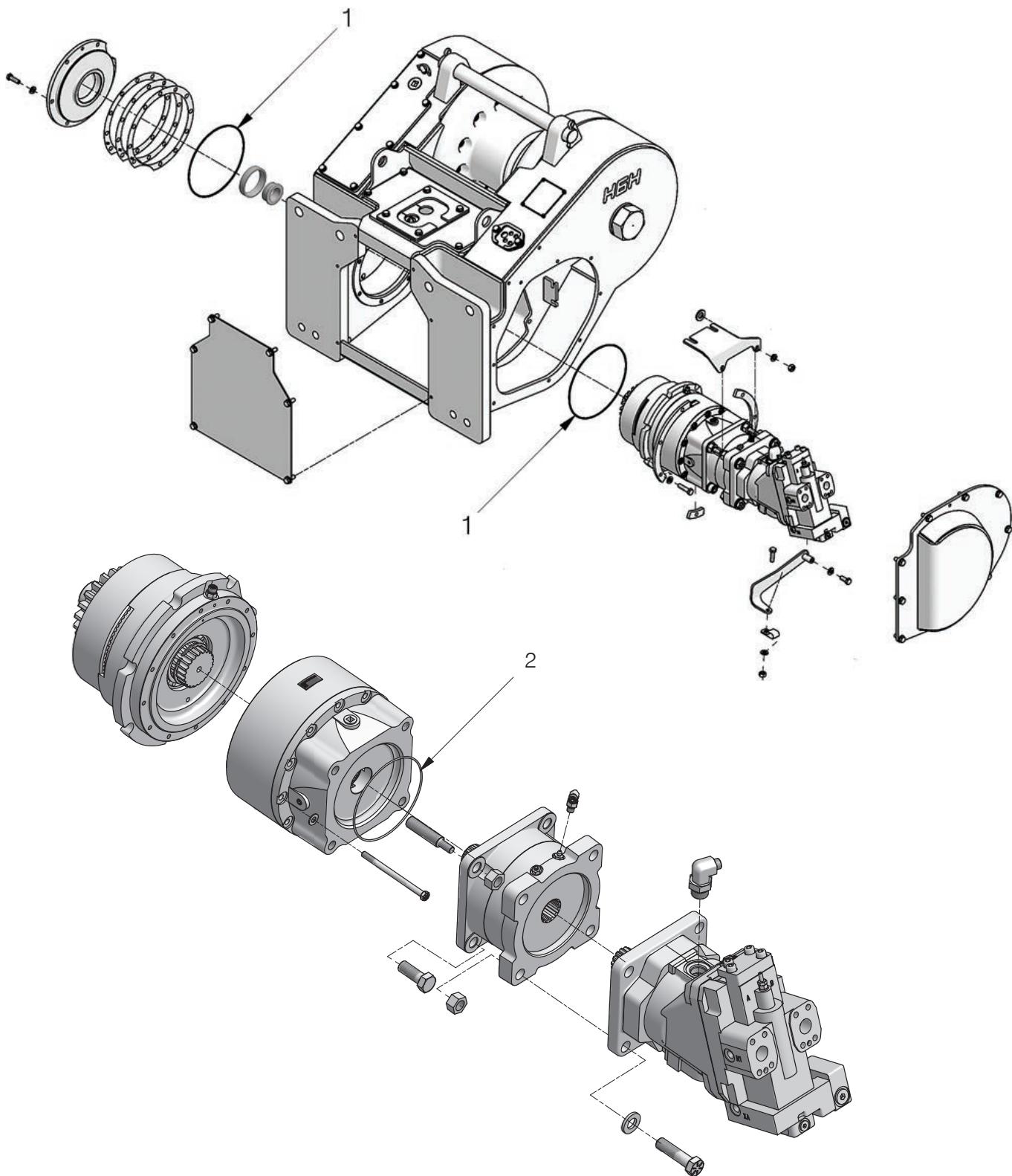
Table 1 Recommended Winch Service Intervals

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 tractor 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	2314660	

Table 2 Routine Maintenance Kits

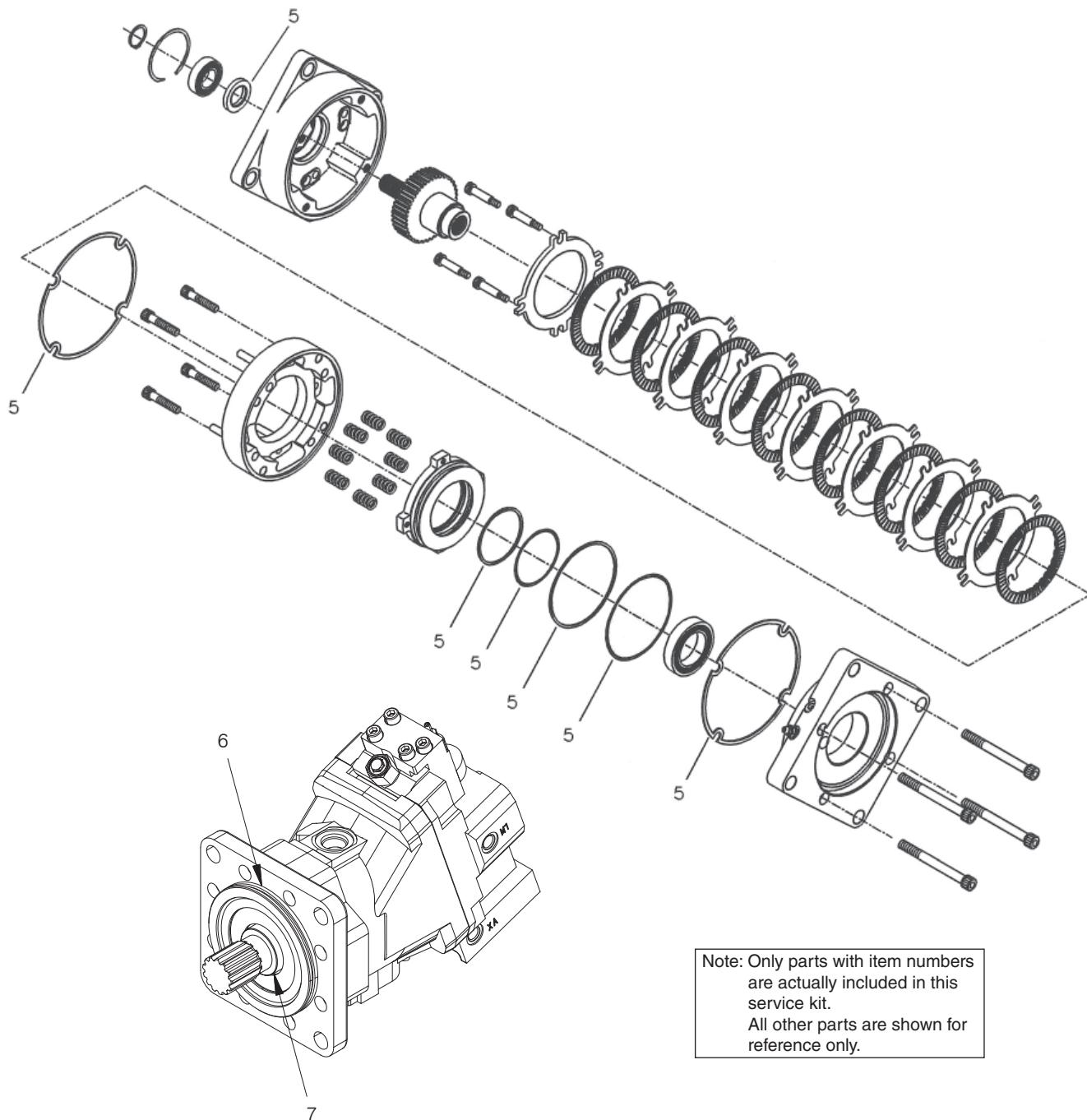
Motor, Reducer & Brake Assembly Rebuild Kit: 2314659

Page 1 of 2



Motor, Reducer & Brake Assembly Rebuild Kit: 2314659

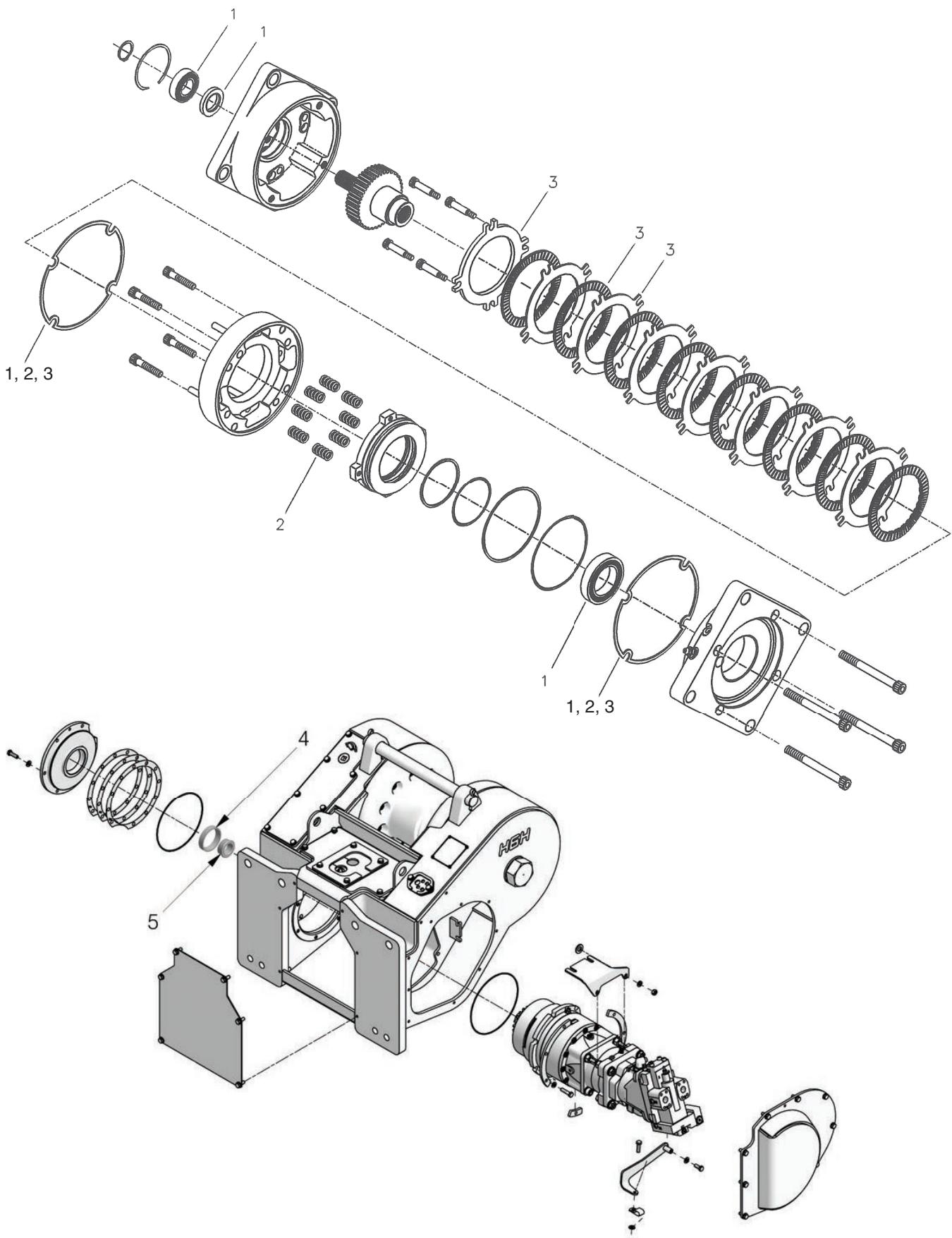
Page 2 of 2

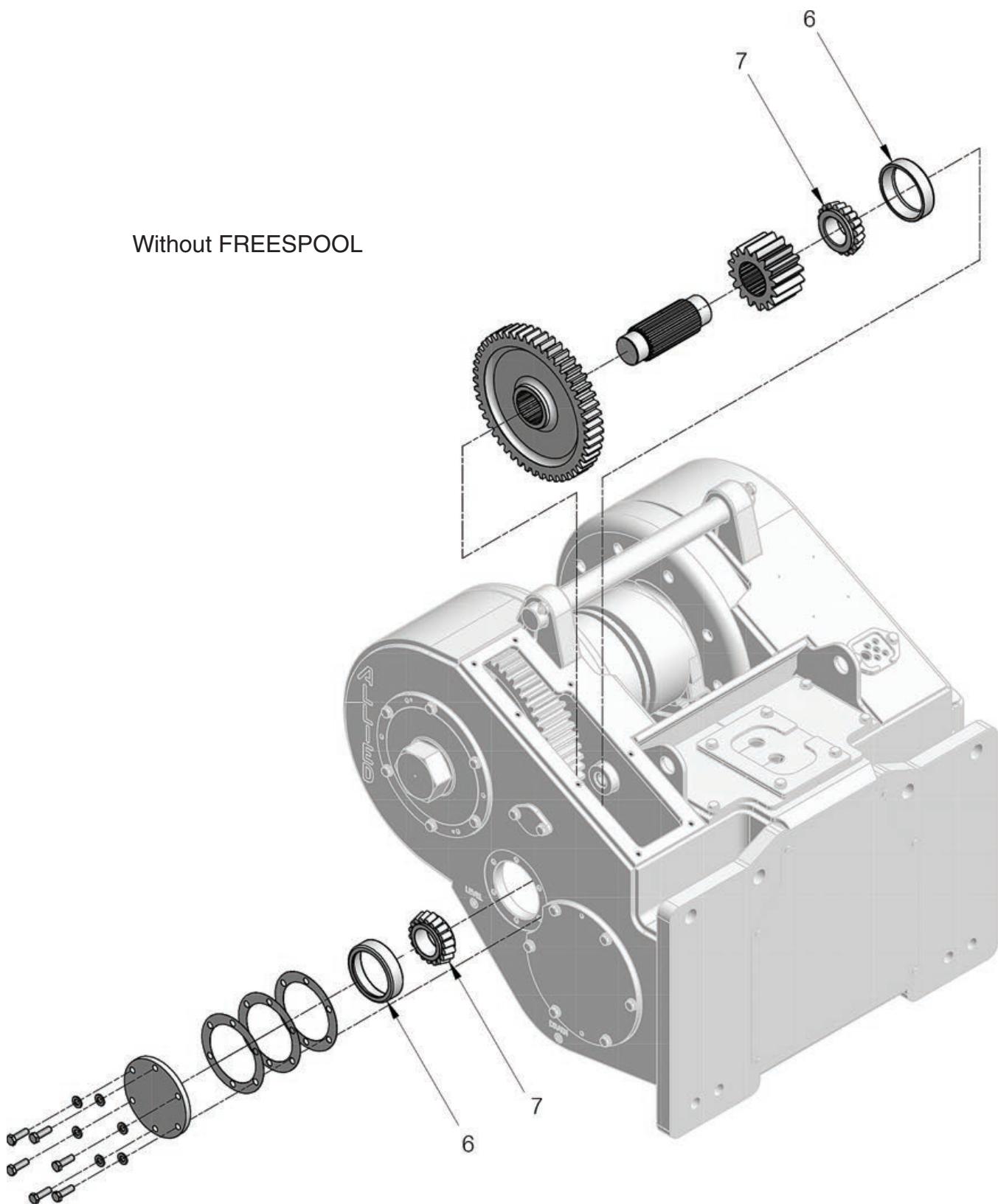


Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	2314659		Rebuild Kit, Motor, Reducer & Brake Assy	6	2313890	1	. O-Ring
1	203564	2	. O-Ring	7	*a 2313891	1	. Kit, Shaft Seal
2	237349	1	. O-Ring	7	*b 2316156	1	. Kit, Shaft Seal
3	313022W	1	. Adhesive (Not Shown)				
4	230064W	1	. Adhesive (Not Shown)				
5	2312302	1	. Kit, O-Ring				
				*a	Last used S/N 1713 (Danfoss 51V Motor)		
				*b	First used S/N 1714 (Danfoss H1B Motor)		

Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660

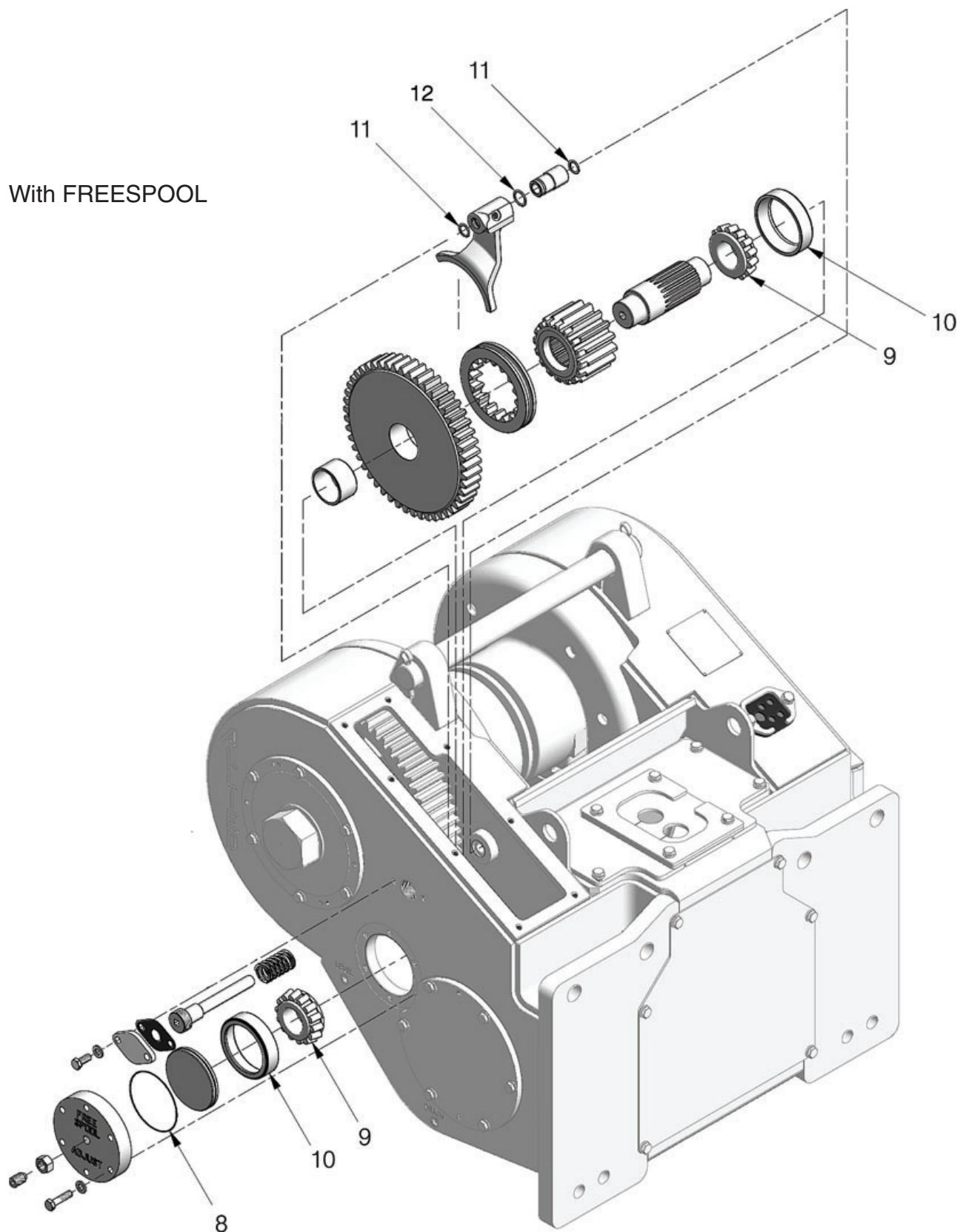
Page 1 of 4



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

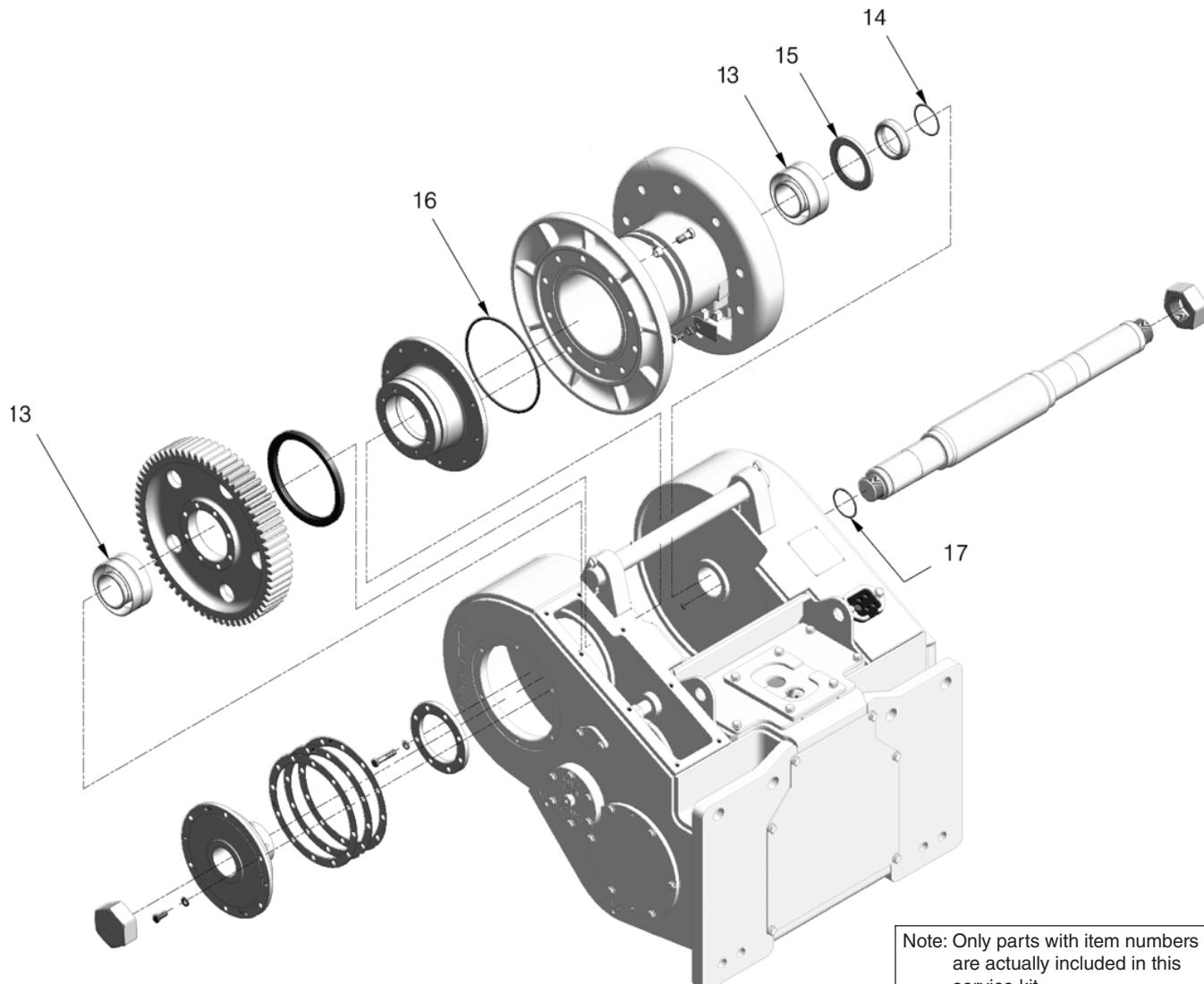
Intermediate/Drum Shaft & Brake Assembly Rebuild Kit: 2314660

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-Ring
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				
9	2302311W	2	. Cone, Bearing				

Section 6

Recommended 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 1 through page 4 include lists of gaskets and seals. Keep these parts in stock at all times for regular maintenance. Order parts from the table based on your winch.

Page 4 and page 5 contain 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. Order parts from the table based on your winch.

Page 5 also contains a list of wire rope assemblies. Order parts as required and as relevant for your installation.

Page 6 contains a list of spare parts. Order parts or kits as required and as relevant for your installation.

Page 7 contains lists of operator controls components, and hose kits. Order parts or kits as required and as relevant for your installation.

Page 8 contains lists of 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		Order as Required		
Applies to: H6H Standard Winch mounted on Caterpillar DR Series II, III, D6T (C71)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
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	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	
Applies to: H6H Standard Winch mounted on Caterpillar D6N (C81)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
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	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	
R15668	Seal Kit, Solenoid Cartridge Valve	1	Valve Manifold Assembly	
Applies to: H6H Standard Winch mounted on Caterpillar D6N (C811)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
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	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	

Gaskets & Seals	Order as Required
----------------------------	--------------------------

Applies to: H6H Standard Winch mounted on Caterpillar D6/D6XE BUILD 20A (C712)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
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)	3	Control Manifold Assembly	
2312112	Seal Kit, Shuttle Valve (P/N 2312074)	1	Control Manifold Assembly	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	

Applies to: H6H Standard Winch mounted on Caterpillar D5 BUILD 17 A/B (C812)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
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)	3	Control Manifold Assembly	
2312112	Seal Kit, Shuttle Valve (P/N 2312074)	1	Control Manifold Assembly	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	

Applies to: H6H Standard Winch mounted on Caterpillar 963D Track Loader (C963)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
2312045	Gasket, Top Right-Hand	1	Frames/Covers	
151646W	Gasket, Freespool	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	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	
R15668	Seal Kit, Solenoid Cartridge Valve	1	Valve Manifold Assembly	

Gaskets & Seals	Order as Required
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Applies to: H6H Standard Winch mounted on Caterpillar D6K2 T4f (C805)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
2312045	Gasket, Top Right-Hand	1	Frames/Covers	
151646W	Gasket, Freespool	1	Frames/Covers	
252566	Seal Kit, Directional Valve (P/N 2311592)	1	Control Manifold Assembly	
2312111	Seal Kit, Cartridge Valve (P/N 2312073)	3	Control Manifold Assembly	
2312112	Seal Kit, Shuttle Valve (P/N 2312074)	1	Control Manifold Assembly	
243815	Seal Kit, Counterbalance Valve (P/N 2312068)	1	CBR Manifold Assembly	
259258	Seal Kit (Buna), Relief Valve (P/N 2307438W)	2	CBR Manifold Assembly	

Applies to: H6H High Performance Winch mounted on Caterpillar D6K2 T4f (C805)				
Allied P/N	Description	Quantity on Winch	See Parts Manual Page	Order Quantity
2312045	Gasket, Top Right-Hand	1	Frames/Covers	
151646W	Gasket, Freespool	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	

Motor, Reducer & Brake Assembly Rebuild Kit, P/N: 2314659**Applies to:** All**Service Interval:** Every 5,000 Hours

Allied P/N	Description	Quantity in Kit	See Parts Manual Page	Order Quantity
2314659	Rebuild Kit, Motor, Reducer & Brake Assembly			
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 *b	. Kit, Shaft Seal	1	Hydraulic Motor	
2316156 *a	. Kit, Shaft Seal	1	Hydraulic Motors	

*a First used with S/N 1714

*b Last used with S/N 1713

Intermediate/Drum Shaft, and Brake Assembly Rebuild Kit, P/N: 2314660**Applies to:** All**Service Interval:** Every 10,000 hours

Allied P/N	Description	Quantity in Kit	See Parts Manual Page	Order Quantity
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	2	Shaft, Intermediate Gear	
30080W	. Cone, Bearing	2	Shaft, Intermediate Gear	
159940W	. O-Ring	1	Shaft, Intermediate Gear	
2302311W	. 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 Assemblies		Order as Required		
Applies to: All				
Allied P/N	Description	Length	Will Fill Drum To:	Order Quantity
WR6-275L	Wire Rope Assembly, 3/4"	275' (84 M)	2/3 Capacity (Recommended)	
WR6-413L	Wire Rope Assembly, 3/4"	413' (126 M)	Full Capacity	
WR7-198L	Wire Rope Assembly, 7/8"	198' (60 M)	2/3 Capacity (Recommended)	
WR7-297L	Wire Rope Assembly, 7/8"	297' (91 M)	Full Capacity	
WR8-154L	Wire Rope Assembly, 1"	154' (47 M)	2/3 Capacity (Recommended)	
WR8-230L	Wire Rope Assembly, 1"	230' (70 M)	Full Capacity	
YS6-275LWS	Wire Rope Assembly, 3/4"	275' (84 M)	2/3 Capacity (Recommended)	
YS6-413LWS	Wire Rope Assembly, 3/4"	413' (126 M)	Full Capacity	
YS7-198LWS	Wire Rope Assembly, 7/8"	198' (60 M)	2/3 Capacity (Recommended)	
YS7-297LWS	Wire Rope Assembly, 7/8"	297' (91 M)	Full Capacity	
YS8-154LWS	Wire Rope Assembly, 1"	154' (47 M)	2/3 Capacity (Recommended)	
YS8-230LWS	Wire Rope Assembly, 1"	230' (70 M)	Full Capacity	
YS8-154LOS	Wire Rope Assembly, 1"	154' (47 M)	2/3 Capacity (Recommended)	
YS8-230LOS	Wire Rope Assembly, 1"	230' (70 M)	Full Capacity	

Spare Parts Order as Required					
Applies to: See "Relevant for Installation" Column					
Allied P/N	Description	Quantity on Winch	Relevant for Installation	See Parts Manual Page	Order Quantity
2316125 *a 2313780 *b	Motor, Hydraulic	1	H6HT6B**C71	Motor Shaft Assembly	
2316121 *a 2313144 *b	Motor, Hydraulic	1	H6HT1B**C81 H6HT1B**C811	Motor Shaft Assembly	
2316118 *a 2311814 *b	Motor, Hydraulic	1	H6HT1B**C963	Motor Shaft Assembly	
2316926	Motor, Hydraulic	1	H6HT***C712	Motor Shaft Assembly	
2317119	Motor, Hydraulic	1	H6HH***C805	Motor Shaft Assembly	
2316120	Motor, Hydraulic	1	H6HT***C805	Motor Shaft Assembly	
2317872	Motor, Hydraulic	1	H6HT***C812	Motor Shaft Assembly	

*a First used with S/N 1714

*b Last used with S/N 1713

Operator Controls Components		Order as Required	
Applies to: All			
Allied P/N	Description	Quantity on Winch	Order Quantity
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	

Spare Parts		Order as Required			
Applies to: See "Relevant for Installation" Column					
Allied P/N	Description	Quantity on Winch	Relevant for Installation	See Parts Manual Page	Order Quantity
2311883	Assembly, Reducer	1	H6HT***C805 H6HT1B**C81 H6HT1B**C811 H6HT***C812 H6HT1B**C963	Motor Shaft Assembly	
2312554	Assembly, Reducer	1	H6HT6B**C71 H6HT***C712	Motor Shaft Assembly	
2312965	Assembly, Reducer	1	H6HH***C805	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	

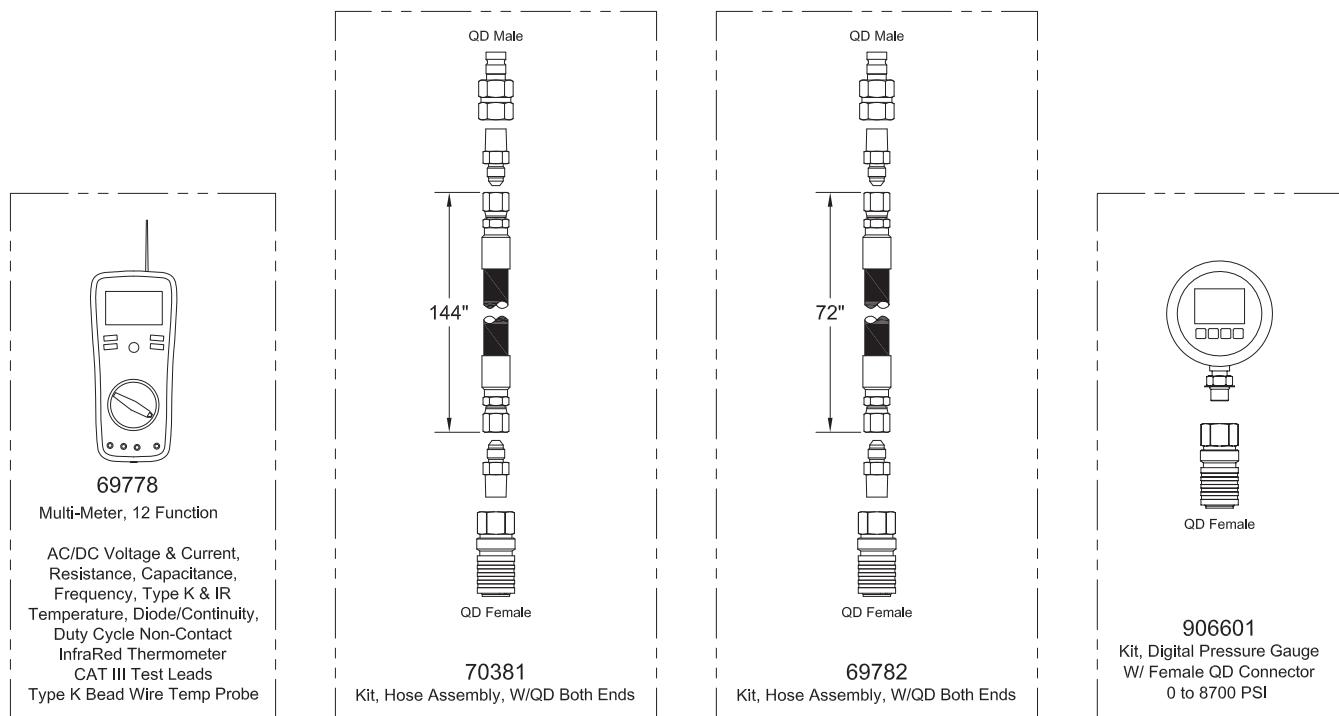
Hose Kits		Order as Required		
Applies to: See "Relevant for Installation" Column				
Allied P/N	Description	Quantity on Winch	Relevant for Installation	Order Quantity
2314769	Hose Kit, Winch Hydraulics	1	Caterpillar DR Series II, III, D6T (C71)	
2317931	Hose Kit, Winch Hydraulics	1	Caterpillar D6/D6XE Build 20A (C712)	
2317932	Hose Kit, Winch Hydraulics	1	Caterpillar D6K2 T4f (C805)	
2314767	Hose Kit, Winch Hydraulics	1	Caterpillar D6N (C81)	
2314768	Hose Kit, Winch Hydraulics	1	Caterpillar D6N (C811)	
2317933	Hose Kit, Winch Hydraulics	1	Caterpillar D5 BUILD 17 A/B (C812)	
2317934	Hose Kit, Winch Hydraulics	1	Caterpillar 963D Track Loader (C963)	

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

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

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

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



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2301749W	120	1	2305715W	29	30.6	2307438W-	118	8
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2301910W	120	7	2306151W	71	3.9	2307438W-	117	8
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2301920W	120	13	2306151W	78	3.9	2307625W	51	2.31
2301924W	120	19	2306151W	85	1.31	2307625W	59	2.23
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2301961W	122	1.2	2306421W	17	1.7	2307625W	65	14
2301961W	122	8.2	2306421W	19	7	2307625W	69	1.4
2301961W	124	1.2	2306836W	25	1.64	2307625W	69	2.9
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2302311W	140		2307104W	97	14	2307625W	87	1.4
2302624W	44	9	2307121W	53	2.23	2307625W	95	9
2302625W	44	11	2307121W	80	1.52	2307625W	101	1.4
2303221W	13	2.2	2307121W	91	1.41	2307625W	108	2
2303221W	15	2.2	2307122W	53	2.24	2307625W	109	2
2303221W	143		2307122W	80	1.51	2307625W	110	2
2303992W	38	13	2307122W	91	1.40	2307625W	113	3
2303992W	39	13	2307238W	71	3.1	2307695W	125	2.1
2303992W	40	13	2307238W	75	3.10	2307696W	125	2.5
230406W	45	3	2307238W	78	3.10	2307702W	27	1.1
230406W	134	13	2307238W	102	3.6	2307702W	29	1
						2307833W	79	1.3

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2307835W	79		2310920	78	3.13		2311855	38 1
2307835W	104	1.1	2310920	85	1.34		2311855	39 1
2307890W	24	1.4	2310920	89	1.34		2311855	40 1
2307893W	24	1.46	2311072	55	1.15		2311856	38 2
2307894W	25	1.42	2311072	92	5		2311856	39 2
2307895W	24	1.24	2311072	98	28		2311856	40 2
2307896W	24	1.23	2311072	142			2311857	47 1
2307897W	79	1.4	2311251	41	9		2311869	38 18
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2307958W	93	1.15	2311592	111	2		2311903	40 11
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2310013	57	2	2311655	39	7		2311904	41 1
2310013	81	2	2311655	40	7		2311905	39 21
2310013	92	2	2311683	38	5		2311905	40 21
2310013	98	27	2311683	39	5		2311906	41 6
2310013	103	23	2311683	40	5		2311907	41 2
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2310414	103	24	2311687	39	20		2312009	137
2310504	55	1.14	2311687	40	20		2312009	137
2310504	57	3	2311718	105			2312009	138
2310504	81	3	2311718	107	1		2312009	138
2310504	92	3	2311718	112	1		2312018	47 9
2310504	98	29	2311718	114	1		2312029	41 3
2310504	103	22	2311718	115	1		2312036	47 7
2310506	81	4	2311718	116	1		2312039	38 4
2310726	120	17	2311719	105	1		2312039	39 4
2310891	45	18	2311770	106			2312039	40 4
2310919	71	3.12	2311770	108	1		2312041	33 1.4
2310919	75	3.12	2311770	109	1		2312041	35 1.4
2310919	78	3.12	2311770	110	1		2312041	35 1.4
2310919	85	1.33	2311771	106	1		2312041	37 1.4
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2312045	137		2312155	37	1.1	2312353	69	1.14
2312045	138		2312155	37	1.1	2312353	73	1.14
2312045	138		2312155	143		2312353	77	1.14
2312045	138		2312168	120	18	2312353	101	1.14
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2312046	13	13.5	2312208	137		2312358	63	1.22
2312059	47	11	2312208	137		2312358	65	26
2312060	47	12	2312208	138		2312358	69	2.12
2312061	47	10	2312208	138		2312358	73	2.5
2312064	45	20	2312212	59	2.32	2312358	77	2.5
2312068	105	2	2312212	63	1.13	2312358	83	1.22
2312068	117	2	2312212	69	1.17	2312358	87	1.22
2312068	118	2	2312212	73	1.17	2312358	89	1.22
2312069	69	2.15	2312212	77	1.17	2312358	95	21
2312073	106	3	2312212	83	1.13	2312437	121	17
2312073	111	3	2312212	87	1.13	2312437	123	17
2312074	106	4	2312212	95	15	2312442	38	6
2312074	111	4	2312212	101	1.17	2312442	39	6
2312089	30	8	2312269	44	14	2312442	40	6
2312090	30	6	2312280	44	13	2312486	13	3.14
2312095	69	2.14	2312302	130	5	2312486	15	3.14
2312099	143		2312302	140		2312487	47	5
2312111	106		2312303	134	1	2312488	44	20
2312111	111		2312303	140		2312488	47	3
2312111	137		2312350	51	2.35	2312554	35	3
2312111	137		2312350	59	2.30	2312554	143	
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2312111	138		2312350	77	1.15	2312580	122	16
2312111	139		2312350	83	1.11	2312580	123	18
2312111	139		2312350	87	1.11	2312580	124	16
2312112	106		2312350	89	1.11	2312628	59	2.35
2312112	111		2312350	95	12	2312628	65	31
2312112	137		2312350	101	1.15	2312628	69	1.19
2312112	137		2312351	63	1.19	2312628	73	1.22
2312112	137		2312351	73	2.4	2312628	77	1.22
2312112	138		2312351	77	2.4	2312628	87	1.43
2312112	138		2312351	83	1.19	2312628	95	27
2312112	138		2312351	87	1.19	2312628	101	1.22
2312112	139		2312351	89	1.19	2312816	107	
2312112	139		2312351	95	13	2312878	59	2.31
2312155	33	1.1	2312351	101	2.7	2312878	69	1.16

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2312878	101	1.16	2313639	63	1.17	2314162	59	2.6
2312908	69	2.13	2313639	65	25	2314162	73	2.11
2312908	73	2.2	2313639	89	1.17	2314162	77	2.11
2312908	77	2.2	2313639	95	20	2314162	83	1.24
2312908	108		2313780	33	2	2314162	101	2.12
2312928	33	4	2313780	142		2314231	85	1.26
2312928	33	4	2313843	83	1.16	2314231	89	1.26
2312928	35	4	2313844	63	1.12	2314242	101	2.3
2312928	35	4	2313844	83	1.12	2314242	118	
2312928	37	4	2313844	89	1.12	231439	38	3
2312928	40		2313844	95	14	231439	39	3
2312940	117	1	2313890	33		231439	40	3
2312940	118	1	2313890	33		231439	59	2.29
2312941	117		2313890	33		231439	63	1.10
2312965	143		2313890	35		231439	65	24
2312965	37	3	2313890	35		231439	69	1.11
2312966	37	4	2313890	37		231439	73	1.11
2312966	39		2313890	37		231439	77	1.11
2312977	38	21	2313890	130	6	231439	83	1.10
2313026	38		2313891	33		231439	87	1.10
2313036	44	8	2313891	130	7	231439	95	19
2313039	33	5	2313891	140		231439	101	1.11
2313043	101	2.1	2313943	111	1	231439	108	8
2313043	109		2313944	111		231439	109	6
2313045	101	2.8	2313944	113	1	231439	110	5
2313113	80	1.49	2313948	65	4	231439	113	7
2313113	81		2313948	101	2.4	2314422	71	3.7
2313114	81	5	2313948	114	6	2314422	75	3.7
2313122	23	17.4	2313948	115	6	2314422	78	3.7
2313135	80	1.48	2313948	116	6	2314422	85	1.30
2313136	57	1	2313959	112		2314422	89	1.30
2313136	81	1	2313960	63	1.23	2314423	71	3.6
2313136	92	1	2313960	83	1.23	2314423	75	3.6
2313137	75	3.18	2313960	89	1.23	2314423	78	3.6
2313137	78	3.18	2313960	95	10	2314423	85	1.29
2313137	85	1.38	2313960	113		2314423	89	1.29
2313137	89	1.38	2313961	90	1.39	231443	125	2.2
2313138	80	1.55	2313961	91	1.39	231444	52	1.11
2313143	33		2313978	91	4	231450	52	1.26
2313144	142		2313978	92		2314627	50	2.4
2313200	80	1.50	2313979	57	4	2314628	50	2.3
2313200	91	1.37	2313979	92	4	2314637	56	2.13
2313380	13	13.3	2313984	106		231465	108	7
2313617	59	2.2	2314097	122	4	231465	110	7

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2314655	53	2.18	2314768	85		2316070	103	20
2314655	57		2314768	87		2316077	99	29
2314659	33		2314768	89		2316081	102	3.3
2314659	33		2314768	90		2316101	99	32
2314659	33		2314768	91		2316102	99	33
2314659	35		2314768	93		2316103	99	34
2314659	35		2314768	143		2316104	99	35
2314659	37		2314769	51		2316105	99	36
2314659	37		2314769	59		2316108	59	
2314659	47		2314769	60		2316108	63	1.24
2314659	130		2314769	143		2316108	87	1.24
2314659	140		2314965	73	2.1	2316108	95	5
2314660	44		2314965	77	2.1	2316109	59	
2314660	47		2314965	116		2316109	63	1.25
2314660	134		2315005	9	2	2316109	87	1.25
2314660	140		2315544	122	1.1	2316109	95	6
2314664	60	2.9	2315544	124	1.1	2316118	35	2
2314690	59	2.5	2315544	124	8.1	2316118	142	
2314690	73	2.12	2315545	122	1	2316120	142	
2314690	77	2.12	2315545	124	1	2316121	142	
2314690	83	1.25	2315546	122	2	2316125	35	2
2314690	101	2.13	2315546	124	2	2316125	142	
2314691	59	2.1	2315548	122		2316147	35	
2314691	115		2315549	124		2316151	35	
2314696	51	2.37	2315555	122	7	2316156	35	
231470	79	1.10	2315555	124	7	2316156	35	
2314727	63	1.18	2315574	71	3.1	2316156	37	
2314727	83	1.18	2315574	78	3.1	2316156	37	
2314727	87	1.18	2315593	103	21	2316156	130	7
2314727	95	1	2315641	63	1.16	2316156	140	
2314727	114		2315641	65	28	2316162	13	3.6
2314735	90	1.3	2315641	89	1.16	2316491	47	
2314739	60	2.13	2315641	95	23	2316736	63	1.26
2314742	90	1.19	2315725	66	10	2316737	63	1.27
2314743	60	2.14	2315725	96	6	2316925	37	
2314753	50	2.1	2315880	19	4	2316926	37	2
2314754	50	2.2	2316022	33		2316926	142	
2314767	24		2316040	30	1	2317048	63	1.38
2314767	69		2316041	30	2	2317103	37	
2314767	73		2316042	30	3	2317119	37	2
2314767	75		2316050	101	2.15	2317119	142	
2314767	77		2316050	102	2.15	2317137	21	1.19
2314767	78		2316059	103	10	2317138	21	1.2
2314767	79		2316061	30	4	2317676	66	3

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2317866	96	2	232984	77	2.7	24257	59	2.34
2317867	97	16	232984	83	1.21	24257	69	1.21
2317868	97	17	232984	87	1.21	24257	73	1.21
2317872	142		232984	95	25	24257	77	1.21
2317878	98	25	232984	101	2.6	24257	83	1.15
2317880	98	26	234191	71	3.5	24257	101	1.21
2317931	143		234191	75	3.5	242596	60	2.15
2317932	52		234191	78	3.5	242596	75	3.22
2317932	65		234191	85	1.28	242596	78	3.22
2317932	66		234191	89	1.28	242596	99	38
2317932	143		234191	101	2.14	242596	102	3.10
2317933	95		234509	57	5	242597	60	2.16
2317933	96		235387	101	2.10	242597	75	3.23
2317933	97		235387	105	5	242597	78	3.23
2317933	143		235387	111	5	242597	99	37
2317934	99		235387	112	5	242597	102	3.11
2317934	101		235387	114	5	242598	60	2.17
2317934	102		235387	115	4	242598	75	3.24
2317934	143		235387	117	5	242598	78	3.24
231820	63	1.28	235387	118	5	242598	85	1.42
231820	66	2	235527	75	3.1	242598	89	1.42
231820	96	3	235536	51	2.36	242598	99	39
231821	101	2.16	236855	51	2.30	242598	102	3.12
231955	51	2.33	236855	59	2.3	242629	79	1.11
231955	79	1.14	236855	63	1.20	242629	93	1.16
231955	93	1.13	236855	65	29	243057	90	1.48
231955	99	30	236855	77	2.6	243502	89	1.46
231955	108	6	236855	79	1.9	243506	89	1.47
231955	113	8	236855	83	1.20	243815	105	
232382	101		236855	87	1.20	243815	117	
232383	63		236855	95	24	243815	118	
232383	66		236855	101	2.2	243815	137	
232383	96		236893	102	3.2	243815	137	
232960	60	2.19	237349	33	1.5	243815	137	
232960	63	1.41	237349	33	1.5	243815	138	
232960	66	6	237349	35	1.5	243815	138	
232960	75	3.21	237349	35	1.5	243815	138	
232960	78	3.21	237349	37	1.5	243815	139	
232960	85	1.41	237349	37	1.5	249072	51	2.34
232960	89	1.41	237349	130	2	249465	79	1.19
232960	96	5	237349	140		249465	90	1.18
232960	102	3.5	239147W	38	12	249465	93	1.18
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250850	134	2	283432W	44	8A	296422W	17	23.4
250850	140		283432W	44	8A	296422W	19	23.4
252566	106		283434W	44	8	296422W	23	17.2
252566	111		283434W	143		296422W	24	1.59
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252566	137		292527W	103	14	296422W	29	30.5
252566	138		292655W	25	1.43	296422W	30	13
252566	138		292656W	47	8	296422W	44	21
252566	138		292656W	56	2.17	296422W	45	22
252566	139		292660W	19	14	296422W	47	4
252566	139		293628W	41	8	296422W	56	2.14
252605	79	1.12	293645W	13	3.15	296422W	90	1.28
254680	79	1.18	293645W	13	13.1	296422W	103	13
254680	90	1.17	293645W	15	3.15	296430W	23	1.37
254680	91	1.17	293645W	47	6	296430W	25	1.37
254680	93	1.17	293646W	17	23.5	296430W	27	1.3
255101	99	40	293646W	19	23.5	296430W	29	3
2570W	121	2	293646W	23	17.1	296434W	19	16
2570W	121	10	293646W	27	17.1	296434W	21	1.8
2570W	122	1.3	293646W	29	30.7	296434W	30	15
2570W	122	8.3	293646W	56	2.15	296438W	30	11
2570W	123	2	293647W	24	1.58	296440W	21	1.4
2570W	123	10	293647W	47	19	296440W	30	7
2570W	124	1.3	293710W	23	1.36	30059W	44	18
2570W	124	8.3	293710W	25	1.36	30059W	134	6
2570W	143		293710W	27	1.22	30059W	134	10
2570W	143		293710W	29	2	30059W	140	
259258	105		293728W	19	15	30059W	140	
259258	105		293729W	21	1.6	30080W	134	7
259258	117		293729W	30	16	30080W	140	
259258	117		296420W	25	1.35	313022W	130	3
259258	118		296420W	41	7	313022W	140	
259258	118		296420W	59	2.21	318702W	17	1.12
259258	137		296420W	63	1.2	318702W	19	12
259258	137		296420W	65	16	318702W	21	1.18
259258	137		296420W	69	1.2	318702W	23	
259258	138		296420W	73	1.2	318702W	27	1.45
259258	138		296420W	77	1.2	318702W	30	18
259258	138		296420W	83	1.2	318702W	44	
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387316W	25	1.57	95978W	45	6	R833103	51	2.29
398817W	21	1.21	R12104	59	2.8	R833103	52	1.10
398817W	120	6	R12577880	63	1.35	R833103	59	2.28
398817W	120	21	R12577880	71	3.14	R833103	63	1.9
398817W	121	7	R12577880	75	3.14	R833103	65	7
398817W	122	6	R12577880	78	3.14	R833103	69	1.10
398817W	123	7	R12577880	85	1.35	R833103	73	1.10
398817W	124	6	R12577880	89	1.35	R833103	77	1.10
44547W	45	9	R12577882	71	3.15	R833103	83	1.9
44547W	134	15	R12577882	75	3.15	R833103	87	1.9
44547W	140		R12577882	78	3.15	R833103	95	2
53559W	45	2	R12973129	79		R833103	97	19
588466	144		R12973129	104	2	R833103	101	1.10
588467	144		R13801813	50	2.8	R833103	114	7
588468	144		R13801826	33	1.6	R833104	65	6
588469	144		R13801826	33	1.6	R833104	114	8
588526	144		R13801826	33	1.6	R833112	52	1.24
588527	144		R13801826	35	1.6	R833112	97	18
588528	144		R13801826	35	1.6	R833112	109	7
588529	144		R13801826	35	1.6	R833133	66	1
588530	144		R13801826	37	1.6	R833133	101	2.9
592255	63	1.3	R13801826	37	1.6	R833133	107	5
592255	87	1.3	R13801826	37	1.6	R833133	112	3
592255	95	7	R13801826	37	1.6	R833133	114	3
592575	66	4	R13801901	27	1.23	R833133	115	3
69778	144		R13801901	29	11	R833133	116	5
69782	144		R138019014	23	1.39	R833217	90	1.12
70381	144		R13806324	17	1.6	R833218	65	5
86585W	38	8	R13806324	19	6	R833218	101	2.5
86585W	39	8	R13807642	80	1.53	R833218	107	3
86585W	40	8	R13807642	91	1.46	R833218	112	2
87287W	38	9	R13811189	53	2.44	R833218	114	2
87287W	39	9	R13811189	80	1.45	R833218	115	2
87287W	40	9	R13811189	91	1.35	R833218	116	3
90263W	45	11	R13811617	38	14	R833251	33	1.10
90263W	134	17	R13811617	39	14	R833251	33	1.1
90263W	140		R13811617	40	14	R833251	33	1.10
906601	144		R13812514	50	2.7	R833251	35	1.10
93878W	121	13	R14040	108	4	R833251	35	1.10
93878W	122	11	R14040	109	4	R833251	35	1.10
93878W	123	13	R14040	110	3	R833251	37	1.10
93878W	124	11	R14040	113	4	R833251	37	1.10
95959W	13	2.1	R15668	79		R833251	37	1.1

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R833251	73	2.9	R834100	59	2.25	Y09C-M1025	87	1.1
R833251	77	2.9	R834100	63	1.6	Y09C-M1025	95	3
R833251	107	2	R834100	65	21	Y09C-M1025	101	1.1
R833251	108	5	R834100	69	1.7	Y09C-M1030	25	1.34
R833251	109	5	R834100	73	1.7	Y09C-M1235	29	30.4
R833251	110	4	R834100	77	1.7	Y09C-M1255	90	1.21
R833251	113	5	R834100	83	1.6	Y17C-1024	29	21
R833251	116	2	R834100	87	1.6	Y17C-1232	33	1.2
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R833253	63	1.5	R834100	99	28	Y17C-1232	35	1.2
R833253	65	13	R834100	101	1.7	Y17C-1232	35	1.2
R833253	69	1.5	R834103	24	1.17	Y17C-1232	35	1.2
R833253	73	1.5	R834103	90	1.11	Y17C-1232	37	1.2
R833253	77	1.5	R834103	99	27	Y17C-1232	37	1.2
R833253	83	1.5	R834200	60	2.18	Y17C-1232	37	1.2
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