

CATERPILLAR D6R III

DPS / SEBP5034

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GENERAL SAFETY RECOMMENDATIONS

GENERAL SAFETY RECOMMENDATIONS

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General Safety Recommendations Caterpillar D6R III & D6T

Some illustrations in this manual may show details or attachments which may be different from your winch. Also, some components may be removed for illustrative purposes.

Continuing product improvement may cause changes in your winch which may not be included in this manual. When a question arises regarding your winch or this manual, contact your nearest PACCAR dealer or the factory Service Department at 918-251-8511, Monday - Friday, 8:00 a.m. to 4:30 p.m. CST, or by Fax at 918-259-1575. Provide the complete winch model number and serial number when making inquiries. The model and serial numbers are stamped into the winch housing on the upward facing surface near the forward most mounting flange.

PACCAR provides parts and service through a network of authorized dealers. Parts and service are not available directly from the factory. For the name of your nearest dealer, consult your local phone directory or call us at the phone number shown above.

 **WARNING** 

Make sure the tractor is secured so that it cannot roll away and the engine switched off before starting ANY work on the hydraulic system.

 **CAUTION** 

The hydraulics may only be operated or serviced independently by persons who are over the age of 18, are physically and mentally fit, and have been instructed on how to operate and service hydraulic systems

 **WARNING** 

The hydraulic system may be under high pressure. It must therefore be depressurized as specified in the operating instructions before starting any work on the hydraulic system.

 **CAUTION** 

Beware of injuries when attempting to locate leaks. Always use a piece of paper or cardboard for this purpose, never your hands. Fluid emerging under pressure may not be visible but can penetrate the skin and cause serious injuries which must be treated by a medical professional without delay.

 **WARNING** 

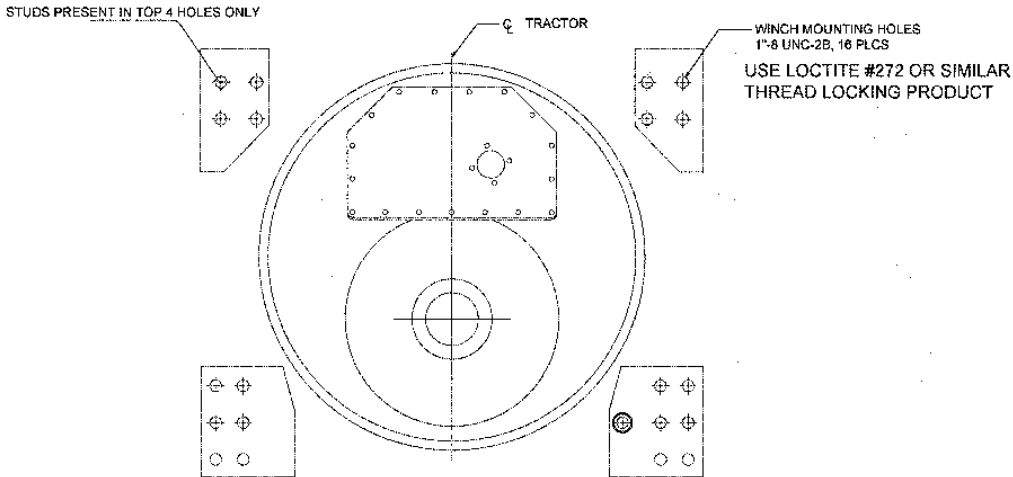
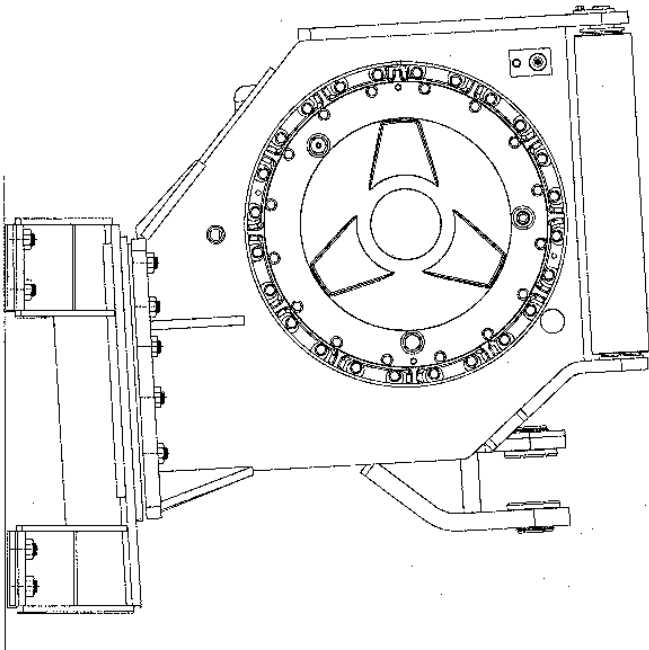
Hydraulic hose lines must be examined regularly. The hoses must be replaced if damaged or deformed and upon expiry of their service life. The hose lines must comply with technical specifications of the supplier.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP5034/SEBP50340001 yet.					

MOUNTING GROUP

MOUNTING GROUP

Drawing 1 of 3



MOUNTING GROUP (continued)

Drawing 2 of 3

INSTALLATION INSTRUCTIONS

CAUTION

Cleanliness is of utmost importance when working on hydraulic equipment. Contamination may cause damage to close tolerances of the hydraulic components which may result in erratic operation and reduced service life.

NOTE: Mounting winch to tractor as the final step will ease access to control group and tractor conversion group. Install complete control group p/n 63652, except direct winch connections, prior to installing winch base unit on tractor.

WARNING

The winch weighs approximately 3,300 pounds (1,500 kg). Ensure your lifting equipment has the adequate capacity and use proper lifting techniques to eliminate the possibility of damage or injury.

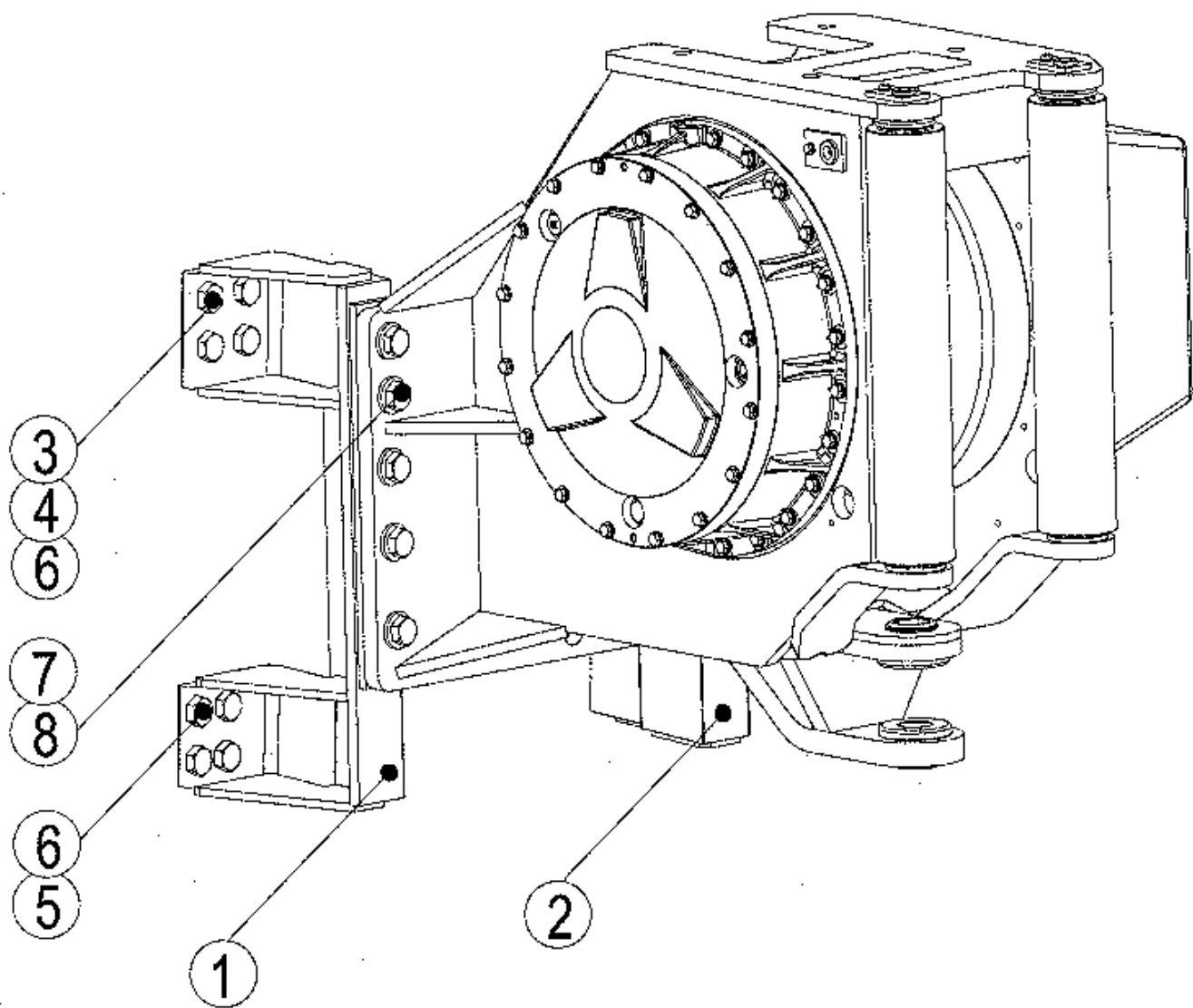
WARNING

Fill the winch to the proper level with the recommended oil **BEFORE** operating the winch. Component damage may occur if the winch is operated without oil.

1. Ensure that mating surfaces of winch, adapter brackets, and tractor frame are free of paint, clean and smooth.
2. Secure left hand adapter (item 1) and right hand adapter (item 2) to winch with 10 capscrews (item 7) and washers (item 8); torque to 1363 ft-lbs.
3. Install studs (item 3) to top mounting holes in tractor frame on each side (use Loctite 272.)
4. Raise winch/ bracket assembly to tractor and secure with nuts (item 4,) washers (item 6,) and capscrews (item 5). **DO NOT** torque fasteners until all hardware of the mounting assembly is installed
5. Torque nuts (item 4) and capscrews (item 5) to 682 ft-lbs.

MOUNTING GROUP (continued)

Drawing 3 of 3



Ref.	Part number	Description	Qty	Code	Group page
1	010-3652	MOUNTING BRACKET (LH)	1	*	
2	010-3653	MOUNTING BRACKET (RH)	1	*	
3	119-0171	STUD (1-8 X UNC X 3.25 LONG)	4		
4	6V-8190	NUT (HEX 1-8 UNC GR8)	4		
5	7X-0403	CAPSCREW (1-7 UNC X 2.25 GR8)	12		
6	8T-5361	WASHER (HARDENED) (1.00)	16		
7	010-5261	CAPSCREW (1-8 UNC X 4.00 GR8)	10	*	
8	7X-0533	WASHER (HARDENED) (1-1/4)	10		
CAT source note: * CAT source note; shown as provided					

TRACTOR CONVERSION GROUP

TRACTOR CONVERSION GROUP

Drawing 1 of 2



Cleanliness is of utmost importance when working on hydraulic equipment. Contamination may cause damage to close tolerances of the hydraulic components which may result in erratic operation and reduced service life.

If Tractor is not equipped with ripper controls or pat blade:

1. Replace existing studs (item 107) with longer (15.75-inch long) studs provided with winch kit.
2. Add winch valve section (item 100) to top of valve stack.
3. Re-install stack valve end-cap using existing nuts and washers.
4. Install split-flange halves, bolts, and washers (items 101, 102, & 103) finger tight for safe-keeping until required for winch control group installation.

If Tractor is equipped with pat blade but not ripper controls:

1. Replace existing studs (item 107) with longer (18.1-inch long) studs provided with winch kit.
2. Add winch valve section (item 100) to top of valve stack.
3. Re-install stack valve end-cap using existing nuts and washers.
4. Install split-flange halves, bolts, and washers (items 101, 102, & 103) finger tight for safe-keeping until required for winch control group installation.

If Tractor is equipped with ripper controls and pat blade:

1. Remove ripper control valve, ripper pilot control hoses, ripper output hoses, and ripper adapter manifold (under fuel tank) from tractor.
2. Add winch stack valve section (item 100) to top of valve stack.
3. Re-install stack valve end-cap using existing nuts and washers.
4. Install split flange halves, bolts, and washers (items 101,

If Tractor is equipped with ripper controls but no pat blade:

NOTE: Ripper control valve may be removed or left in place at customer's option. Removing ripper control valve will slightly reduce initial winch installation time. Leaving ripper control valve in place will make subsequent conversion back to ripper much easier.

To install winch by removing ripper controls:

1. Remove ripper control valve, ripper output hoses, and ripper adapter manifold (under fuel tank) from tractor.
2. Add winch stack valve section (item 100) to top of valve stack in place of ripper valve.
3. Re-install stack valve end-cap using existing nuts and washers.
4. Install split-flange halves, bolts, and washers (items 101, 102, 103) finger tight for safe keeping until required for winch control group installation.

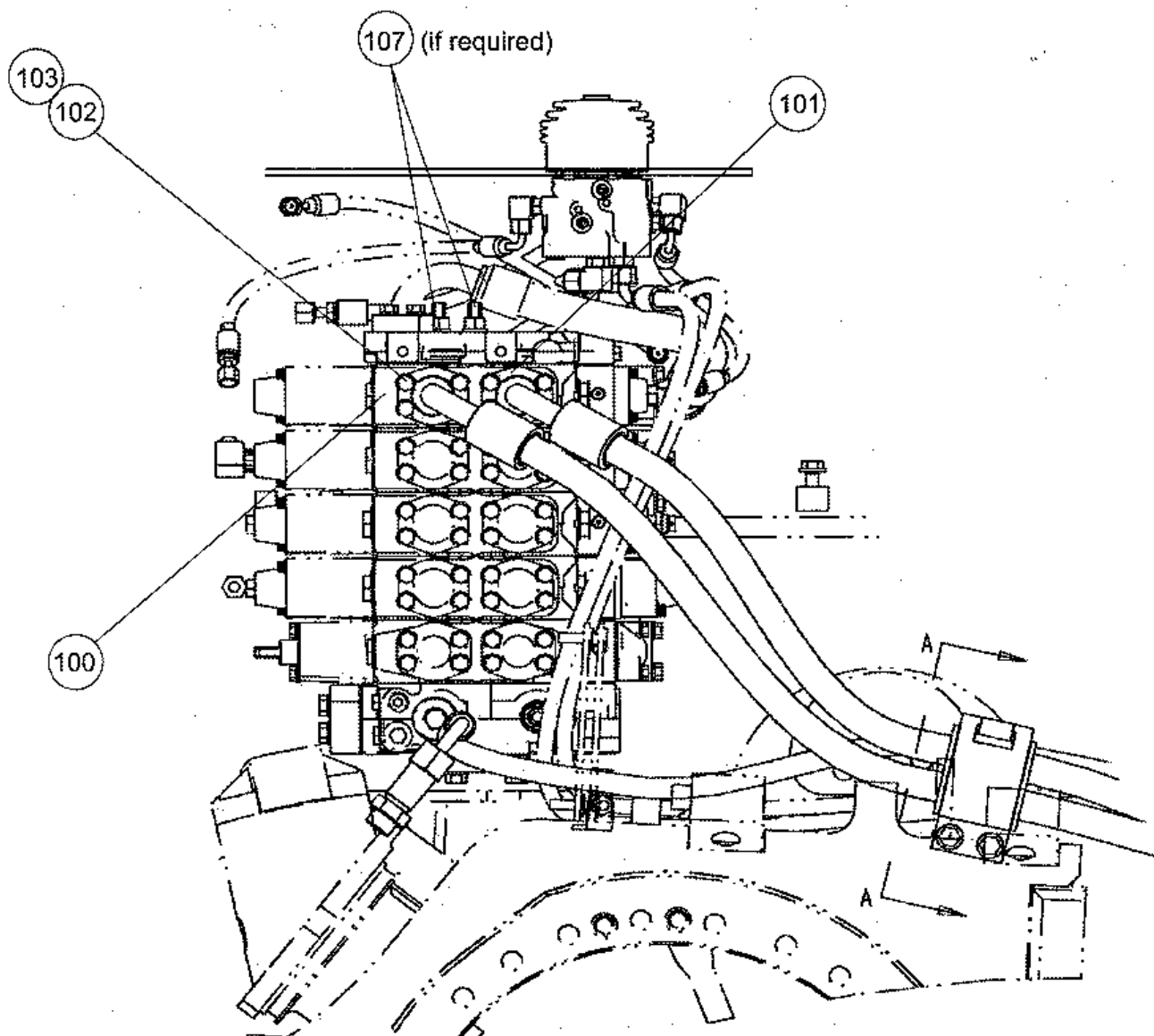
To install winch leaving ripper controls in place:

1. Remove ripper pilot control hoses, ripper control hoses, and ripper adapter manifold (under fuel tank.)
2. Plug pilot control input ports and power output ports in ripper control valve with suitable high pressure plugs.
3. Replace existing studs (item 107) with longer (18.1-inch long) studs provided with winch kit.
4. Add winch stack valve section (item 100) to top of stack valve.
5. Re-install stack valve end-cap using existing nuts and washers.
6. Install split flange halves, bolts, and washers (items 101, 102, & 103) finger tight for safe-keeping until required for winch control group installation.

NOTE: On initial startup, winch control and operation may be slow or unstable until air has been purged from the hydraulic control circuits. Clearing all air from the system may require several minutes of operation. In extreme conditions it may be desirable to manually "bleed" the various hydraulic control connections

TRACTOR CONVERSION GROUP (continued)

Drawing 2 of 2

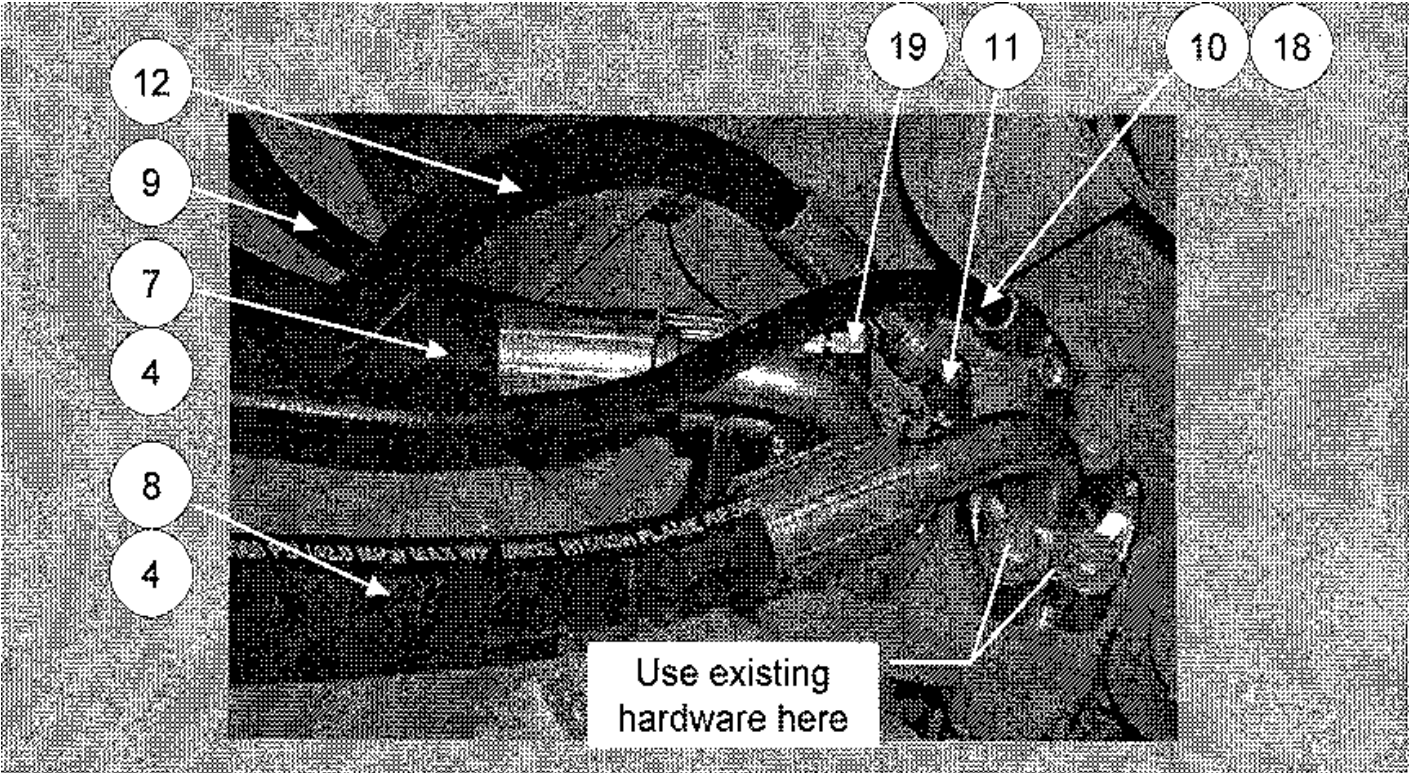


Ref.	Part number	Description	Qty	Code	Group page
100	232-4854	CONTROL VALVE SECTION	1		
101	1P-5765	SPLIT FLANGE (HALF)	4		
102	5S-7383	CAPSCREW (HEX HD) (3/8-16 UNC X 1.75 GR8)	8		
103	8T-4896	WASHER (HARDENED) (3/8)	8		
107	166-7220	STUD (1/2-13 UNC X 18.1 LONG)	3		
107	164-6174	STUD (1/2-13 UNC X 15.75 LONG)	3		

MOTOR LINES GROUP

MOTOR LINES GROUP

Drawing 1 of 1



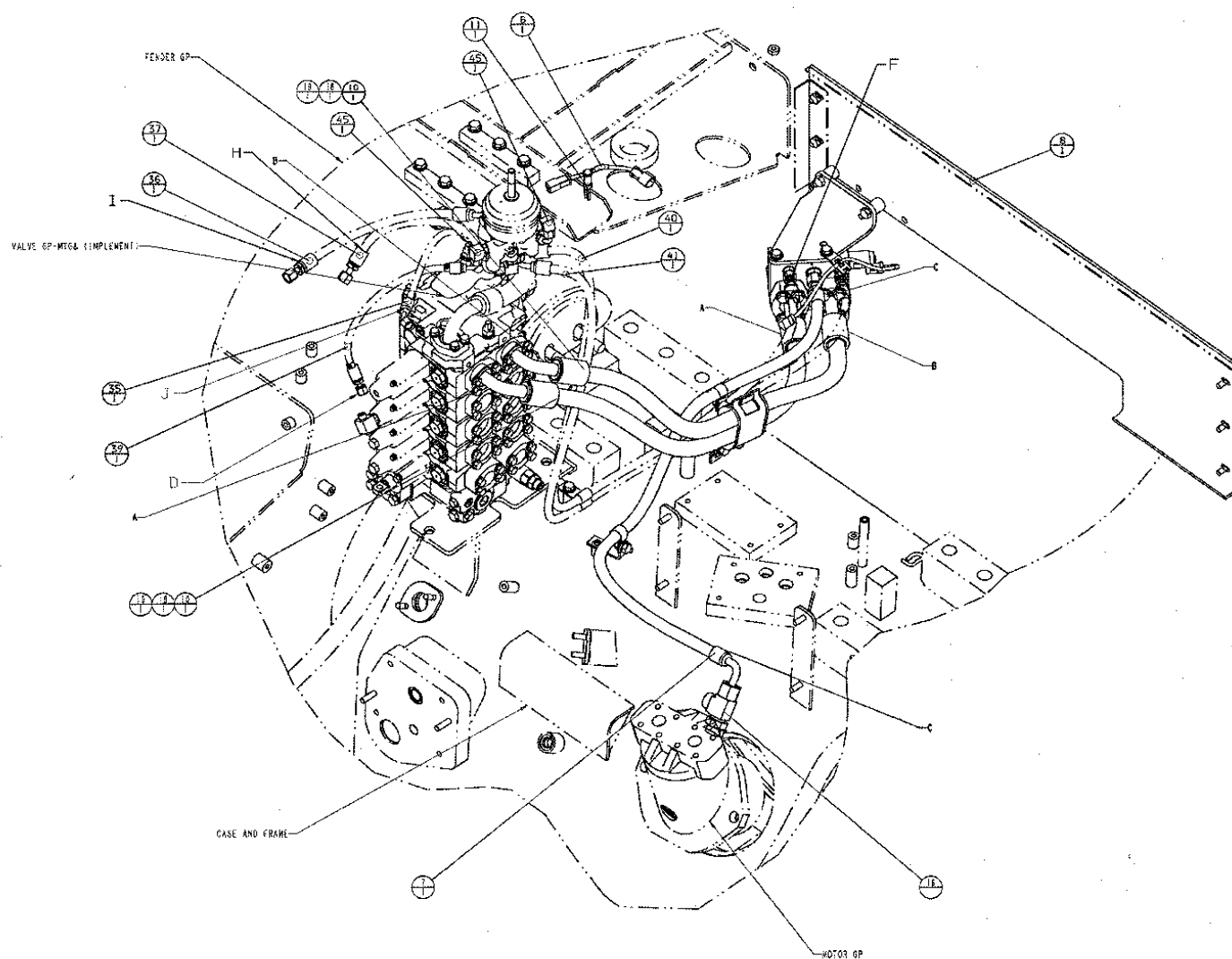
Ref.	Part number	Description	Qty	Code	Group page
1	1P-5766	SPLIT FLANGE (HALF)	2		
2	010-4319	CAPSCREW (HEX HEAD) (7/16-14X2-3/4 GD8 Z)	4	*	
3	8T-5360	WASHER (HARD) (7/16 Z)	4		
4	1P-3703	D-RING (SPLIT FLANGE)	3		
6	6V-8637	ADAPTER (-12/-12 ORB/ORFS)	1		
7	010-6636	HOSE (-16/-12X27.0) (REEL-OUT)	1	*	
8	010-6637	HOSE (-16/-12X20.5) (REEL-IN)	1	*	
9	8W-6688	HOSE (-4X26.0) (MOTOR X PORT)	1		
10	052-9105	HOSE AS (-6X27.0) (DRUM CLUTCH)	1		
11	148-8354	ELBOW (45) (-8/-8 ORB/ORFS)	1		
12	010-4200	HOSE ASSY (-8 ORFSX20.5) (MOTOR CASE DRAIN)	1	*	
16	003-2235	RETAINING STRAP	2	*	
18	148-8353	ELBOW (45) (-6/-6 ORB/ORFS)	1		
19	148-8369	ADAPTER (90) (ELBOW ORB/ORFS)	1		

CAT source note: * CAT source note; shown as provided

CONTROL GROUP

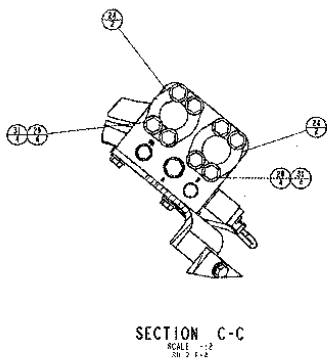
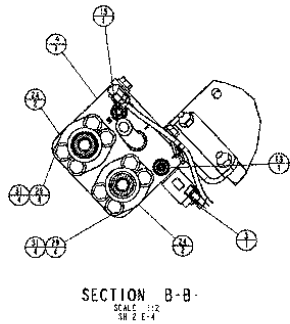
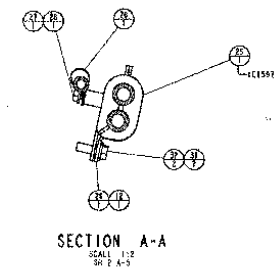
CONTROL GROUP

Drawing 1 of 3

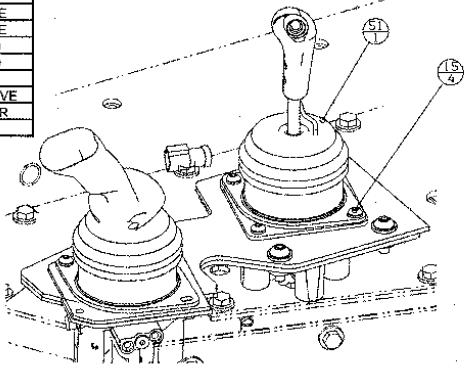


CONTROL GROUP (continued)

Drawing 2 of 3



HOSE ROUTING INDEX		
DESCRIPTION	FROM	TO
A WINCH SPOOL-IN	IMPLEMENT VALVE	MANIFOLD
B WINCH SPOOL-OUT	IMPLEMENT VALVE	MANIFOLD
C WINCH MANIFOLD DRAIN	WINCH MANIFOLD	CASE DRAIN LINE
D PILOT CONTROL WINCH SPOOL-IN	WINCH PILOT VALVE	IMPLEMENT VALVE
E PILOT CONTROL WINCH SPOOL-OUT	WINCH PILOT VALVE	IMPLEMENT VALVE
F PILOT CONTROL WINCH SPOOL-FREE	WINCH PILOT VALVE	WINCH MANIFOLD
G PILOT SUPPLY MANIFOLD	WINCH PILOT VALVE	WINCH MANIFOLD
H WINCH PILOT DRAIN	WINCH PILOT VALVE	TANK
I WINCH PILOT SUPPLY	BULKHEAD	WINCH PILOT VALVE
J FLOAT BOOST	DOZER PILOT VALVE	VALVE END COVER
K IMPLEMENT RETURN	VALVE END COVER	COOLER BYPASS



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