

CATERPILLAR D9R

ABK / SEBP2511

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MOUNTING GP

Mounting Gp

Drawing 1 of 2

INSTRUCTIONS:

⚠ CAUTION

Cleanliness is of the 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: Refer to the appropriate Caterpillar service manuals for additional information regarding steps 1 and 2.

1. Drain hydraulic oil into a suitable container. Recycle or dispose of drain oil in an environmentally responsible manner. Securely install hydraulic reservoir drain plug after oil has drained.
2. Remove and discard the ripper hose junction block (if so equipped) from rear of tractor.
3. Clean all paint, oil, grease, rust and dirt from the mounting surfaces of the winch adapter brackets, and counterweights.
4. Install mounting plate, item 1, to Caterpillar counterweight (P/N 1Q3267) with fasteners, items 3, 10 and 11. Coat threads with Loctite 242, or equivalent, and torque to 1360 lb·ft (1840 N·m).
5. Install mounting plate and counterweight to winch mounting base with fasteners, item 4. Coat threads of fasteners with Loctite 242, or equivalent, and torque to 1380 lb·ft (1840 N·m).
6. Install studs, items 2 and 5, into tractor mounting holes; utilize Loctite 242.
7. Install spacers, items 6 and 7, on tractor. Install winch and counterweight to tractor with fasteners items 8 and 9. Coat threads with Loctite 242 and torque to 1500 lb·ft (2030 N·m).

⚠ WARNING

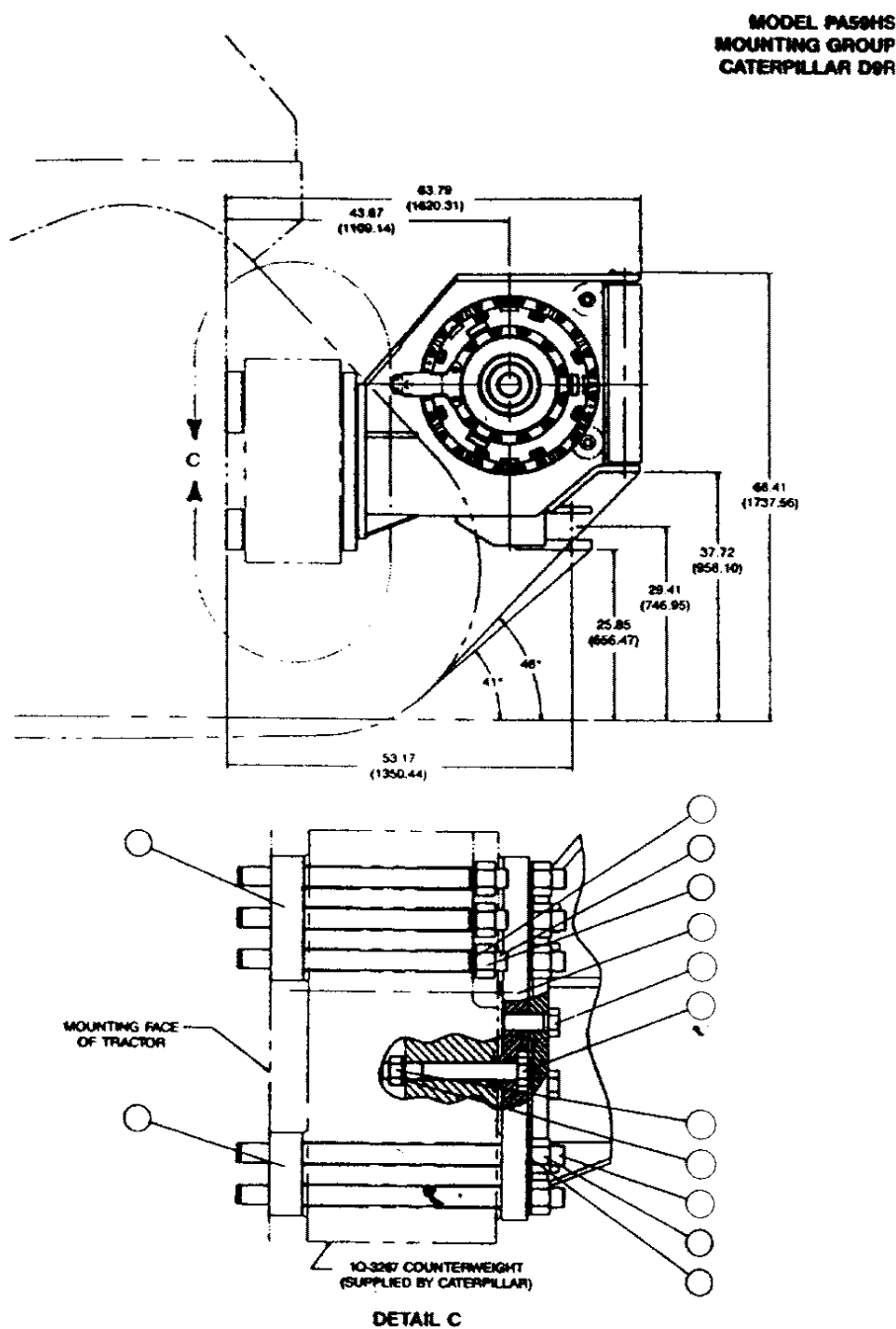
Winch and counterweight weigh approximately 12,200 lb (5535 kg). Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury or death.

⚠ CAUTION

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

MOUNTING GP (continued)

Drawing 2 of 2



Ref.	Part number	Description	Qty	Code	Group page
1	126-0873	MOUNTING PLATE	1		
2	126-2862	STUD (1 1/2 - 6 X 25)	10		
3	126-0864	CAPSCREW, HEX HEAD (1 1/4 - 7 X 10 1/2 G8)	8		
4	2B-1955	CAPSCREW, HEX HEAD (1 1/4 - 7 X 3 1/2 G8)	10		
5	126-0863	STUD (1 1/2 - 6 X 20 1/2)	6		
6	126-0861	SPACER	2		

MOUNTING GP (continued)

Ref.	Part number	Description	Qty	Code	Group page
7	126-0859	SPACER	2		
8	9S-8216	NUT, HEX (1 1/2 - 6)	16		
9	3S-6162	WASHER, HARDENED (1 1/2)	16		
10	4K-0684	WASHER, HARDENED (1 1/4)	8		
11	7X-0451	NUT, HEX (1 1/4 - 7)	8		

CONTROL GP - HYDRAULIC

Control Gp - Hydraulic

Drawing 1 of 1

INSTRUCTIONS:



CAUTION

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

NOTE: Refer to the appropriate Caterpillar service manuals for additional information regarding step 1.

1. Remove the operator's seat and cab floor plate and RH console top and side coverplates to gain access to hydraulic piping.

2. Preassemble logic block valve assembly, item 2, as shown on page 6.

3. Mount logic block valve assembly, item 2, to logic block bracket, item 30, utilizing fasteners, items 13 and 14.

4. Preassemble joystick valve assembly, item 1, as shown on page 5.

5. Attach joystick subassembly, item 1, and instruction plate, item 40, to instrument cover assembly, item 34, utilizing fasteners, items 36, 37 and 41.

6. Install instrument cover assembly, item 34, utilizing original fasteners from step 1.

7. Install indicator light, item 38, in instruction plate, item 40. Insure that tractor master switch is in the "off" position. Connect harness, item 39, to pigtails on joystick and logic block. Connect harness leads to posts on indicator light as follows:
black to —
purple to +
Connect harness to tractor DC volt input.

8. Attach manifold, item 42, to manifold mount, item 12, with fasteners, items 14 and 20.

9. Attach manifold and bracket to lower surface of fuel tank with fasteners, items 22, 23 and 24.

10. Install -6 STR THD Adapters, item 1 from page 5, in the wet end caps of the winch section of the implement valve stack.

11. Install ORFS tee, item 8, and quick disconnect, item 9, into port HA, of Cat P/N 6E4138 manifold on implement valve stack.

12. Install ORFS/ORB tee, item 5, and elbow, item 6, at implement pump case drain.

13. Install hose, item 7, between tee at implement valve

manifold port HA and port P on logic block valve assembly.

14. Install elbows, item 19, at wet end caps on winch section of implement valve stack. Install hoses, items 16 and 17 between wet end caps and ports 1 and 3 of joystick, item 1. These hoses control winch drum rotation vs. joystick position; the correct porting can be determined once the winch is operational.

15. Install hoses, item 18, from winch section of implement valve stack to manifold, item 42. Utilize split flange kits, item 25.

16. Install hose, item 4, between tee, item 5, and port T at logic block valve assembly, item 2.

17. Install hose, item 10, between port P on joystick, item 1, and port J on logic block valve assembly, item 2.

18. Install hose, item 11, between port T on joystick, item 1, and port T on the logic block valve assembly, item 2.

19. Install hose, item 15, between port 4 on joystick, item 1, and drum clutch release line on winch utilizing male SAE union, item 31.

20. Install hose, item 3, from remaining -8 port on logic block valve assembly, item 2, to motor case drain.

21. Install hose, item 29, from X port of logic block valve assembly to X port on motor.

22. Install hoses, items 26 and 27, between motor work ports and manifold, item 42. Utilize split flange kits, item 25.

23. Turn on the tractor master switch. Turn the starter key switch on (**DO NOT START ENGINE**). Pressing the rocker switch should cause the indicator lamp and solenoid valve to activate.

24. Check all hydraulic connections for tightness. Make certain all hoses and wires are routed and secured to avoid chaffing.

25. Fill the hydraulic reservoir to the proper level with recommended oil. Refer to the Caterpillar oil specifications.

26. Start the engine and operate at low throttle to purge air from lines. Operate winch in all functions and refill hydraulic reservoir as required. Check for leaks and take corrective action as required. If winch haul-in and pay-out functions at joystick do not match drum rotation, hoses at ports 1 and 3 of the joystick may be reversed.

27. Record winch and tractor serial numbers on delivery report form(s). Conduct winch operator training as required.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2511/SEBP25110002 yet.					

SEBP2511

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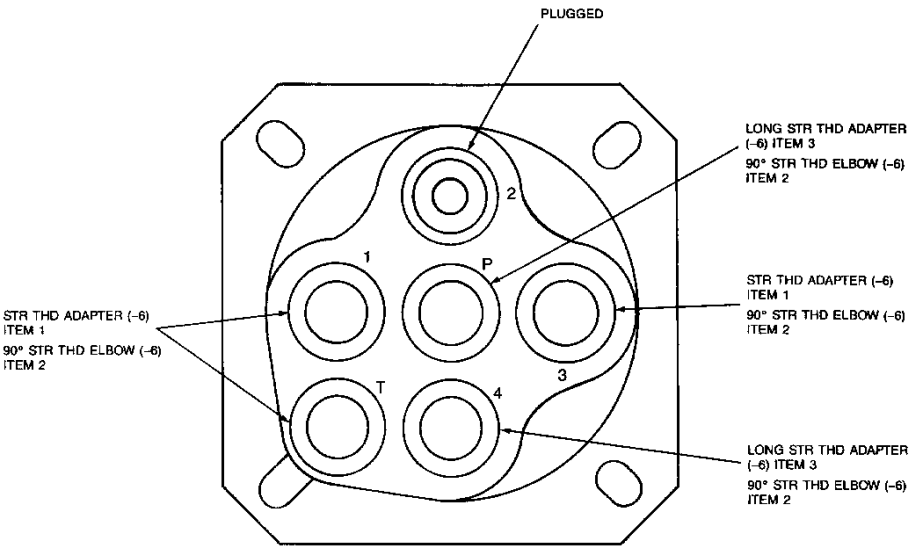
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CONTROL GP - HYDRAULIC

Control Gp - Hydraulic

Drawing 1 of 1



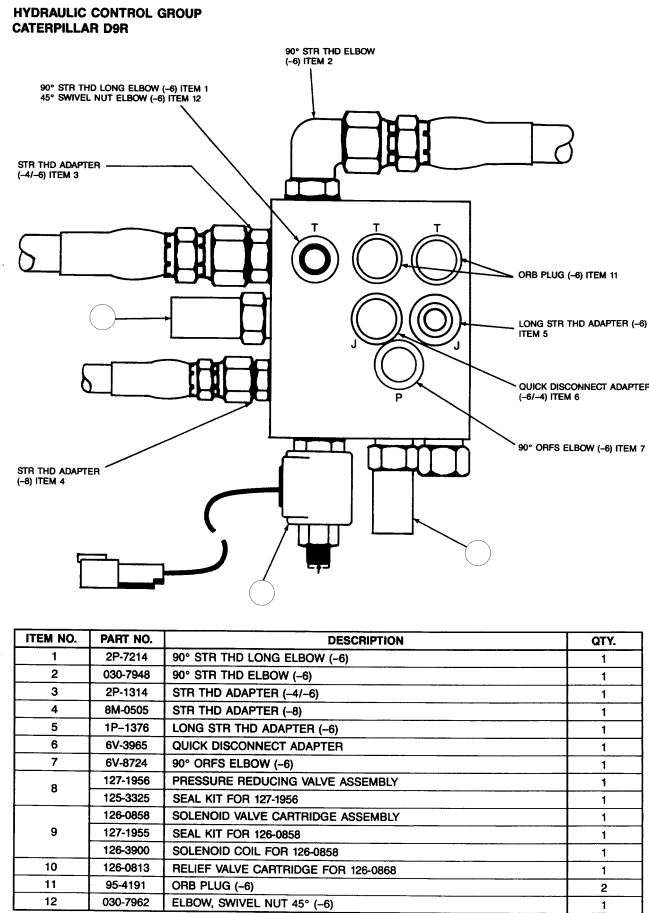
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	2R-6806	STR THD ADAPTER, ORB TO -6 JIC	3
2	6K-9194	90° SWIVEL ELBOW -6 JIC	5
3	1P-1376	LONG ADAPTER, STR THD ORB TO -6 JIC	2

Ref.	Part number	Description	Qty	Code	Group page
1	2R-6806	STR THD ADAPTER, ORB TO -6 JIC	3		
2	6K-9194	90 degrees SWIVEL ELBOW -6 JIC	5		
3	1P-1376	LONG ADAPTER, STR THD ORB TO -6 JIC	2		

CONTROL GP - HYDRAULIC

Control Gp - Hydraulic

Drawing 1 of 1

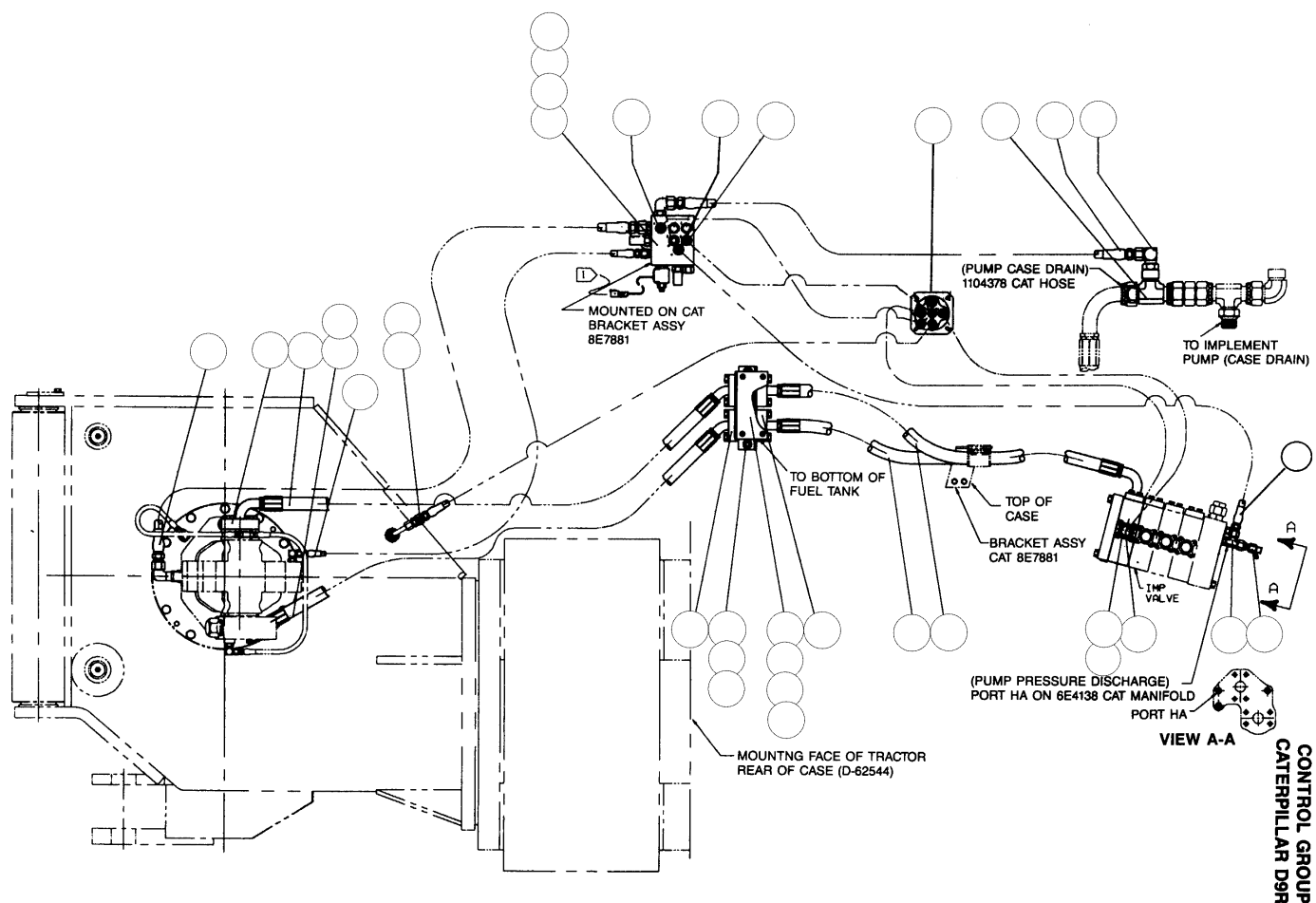


Ref.	Part number	Description	Qty	Code	Group page
1	2P-7214	90 degrees STR THD LONG ELBOW (-6)	1		
2	030-7948	90 degrees STR THD ELBOW (-6)	1		
3	2P-1314	STR THD ADAPTER (-4/-6)	1		
4	8M-0505	STR THD ADAPTER (-8)	1		
5	1P-1376	LONG STR THD ADAPTER (-6)	1		
6	6V-3965	QUICK DISCONNECT ADAPTER	1		
7	6V-8724	90 degrees ORGS ELBOW (-6)	1		
8	127-1956	PRESSURE REDUCING VALVE ASSEMBLY	1		
	125-3325	SEAL KIT FOR 29853	1		
9	126-0858	SOLENOID VALVE CARTRIDGE ASSEMBLY	1		
	127-1955	SEAL KIT FOR 29820	1		
	126-3900	SOLENOID COIL FOR 29820	1		
10	126-0813	RELIEF VALVE CARTRIDGE	1		
11	095-4191	ORB PLUG (-6)	2		
12	030-7962	ELBOW, SWIVEL NUT 45 degrees (-6)	1		

CONTROL GP

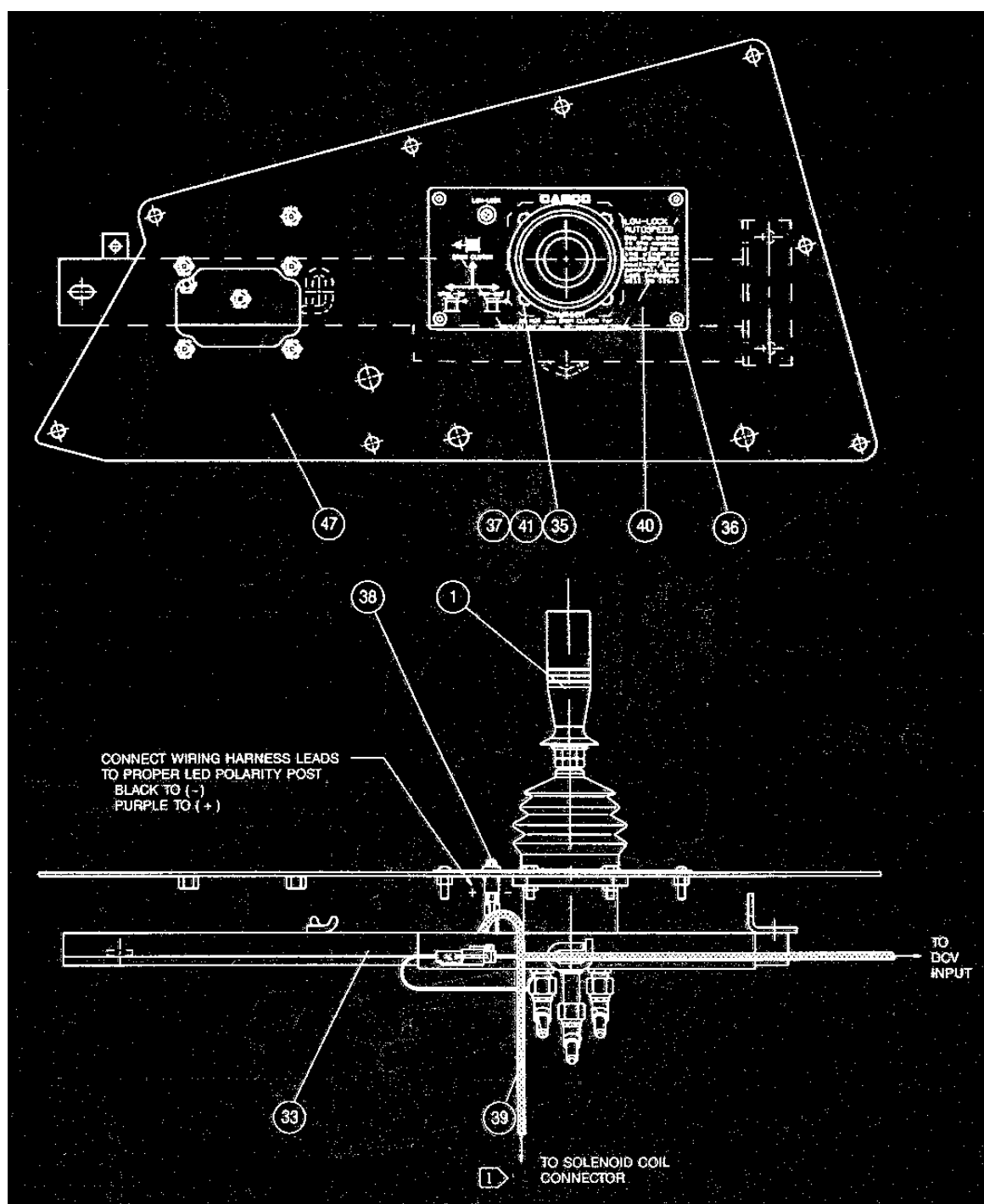
Control Gp

Drawing 1 of 2



CONTROL GP (continued)

Drawing 2 of 2



Ref.	Part number	Description	Qty	Code	Group page
1	126-3601	JOYSTICK SUB ASSEMBLY	1		
	130-7442	ROCKER SWITCH/SWITCH COVER BOOT FOR 82214	1		
	130-7444	BOOT, HANDLE FOR 82214	1		
	130-7443	HANDLE ASSEMBLY FOR 82214	1		
2	126-0865	LOGIC BLOCK VALVE ASSEMBLY	1		
3	6W-2335	HOSE ASSEMBLY, -8 x 75 in. (1905 mm)	1		

CONTROL GP (continued)

Ref.	Part number	Description	Qty	Code	Group page
4	5G-5962	HOSE ASSEMBLY, -8 x 48 in. (1219 mm)	1		
5	126-4862	SPECIAL TEE, ORFS/ORB	1		
6	126-2473	90 degrees STR THD ELBOW (-8/-16)	1		
7	8W-4200	HOSE ASSEMBLY, -6 x 40 in. (1016 mm)	1		
8	6V-8781	TEE, ORFS (-6)	1		
9	126-0814	QUICK DISCONNECT	1		
10	2W-4332	HOSE ASSEMBLY, -6 x 29.5 in. (749 mm)	1		
11	116-2579	HOSE ASSEMBLY, -6 x 34 in. (864 mm)	1		
12	126-0866	MANIFOLD MOUNT	1		
13	5S-7379	HEX HEAD CAPSCREW, 3/8 NC x 7/8 in. (22 mm)	2		
14	1B-2578	LOCKWASHER, 3/8	6		
15	103-7481	HOSE ASSEMBLY, -6 x 87 in. (2210 mm)	1		
16	9D-5296	HOSE ASSEMBLY, -16 x 20 in. (508 mm)	1		
17	2T-0961	HOSE ASSEMBLY, -6 x 45 in. (1143 mm)	1		
18	8E-7883	HOSE ASSEMBLY, -16 x 47.5 in. (1207 mm)	2		
19	030-7947	90 degrees STR THD ELBOW (-6)	4		
20	4L-9337	HEX HEAD CAPSCREW, 3/8 NC x 1 1/2 in. (38 mm)	4		
21	126-8746	SPLIT FLANGE UNION, -16/-16 CODE 61	1		
22	7X-0331	HEX HEAD CAPSCREW, 1/2 NC x 4 1/2 (115 mm)	2		
23	1F-7958	NUT, 1/2 NC	2		
24	3B-4508	LOCKWASHER, 1/2	2		
25	1P-4577	SPLIT FLANGE KIT, 1 in. CODE 61	4		
26	126-8748	HOSE ASSEMBLY, -16 x 45 1/4 in. (1154 mm)	1		
27	126-8747	HOSE ASSEMBLY, -16 x 43.88 in. (1115 mm)	1		
28	126-7138	SPLIT FLANGE KIT, 1 in. CODE 62	1		
29	9D-5403	HOSE ASSEMBLY, -4 x 63 in. (1600 mm)	1		
30	126-0867	LOGIC BLOCK BRACKET	1		
31	7K-4129	MALE SAE UNION (-6)	1		
32	6V-8714	ORFES ADAPTER (-16/-12)	1		
33	126-0871	CHANNEL ASSEMBLY	1		
34	126-0870	INSTRUMENT COVER ASSEMBLY	1		
35	1P-1376	LONG STR THD ADAPTER (-6)	4		
36	123-4435	BUTTON HEAD CAPSCREW, 1/4 NC x 1 (25 mm)	4		
37	6V-8185	NUT, 1/4 NC	4		
38	126-0810	INDICATOR LIGHT - GREEN	1		

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