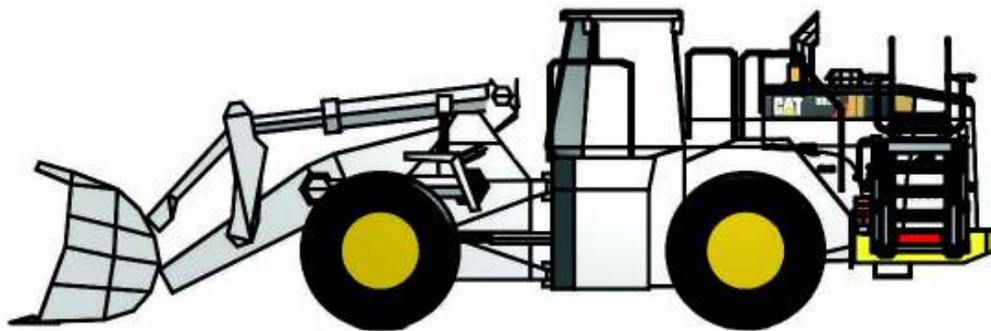


FOLDING STAIRWAY

Manual for Cat 988H Wheel Loader



Model No.:PSA-CAT988H
Serial No.:988H-FS-001 to 988H-FS-002
Date Manufactured: Nov 2011

FOLDING STAIRWAY

Caterpillar 988H Loader



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FOLDING STAIRWAY

Caterpillar 988H Loader



Section 1 Installation and Mounting Instructions

NOTE

Follow all on-site/Mine lifting and safety procedures when installing PSFS to Loader

INSTALLATION PROCEDURE

See Drawing **PSA-C988H-A01**

1. With the stair latched in its stowed position, locate the stair set against the side of the rear bumper as shown in **Views 1** and **2** and per the dimensions given in **View 3**. Weld the back plate of the stair base to the skin of the bumper with substantial tack welds.
2. Manually unlock the latch and lower the stair to its deployed position using lifting devices as required. Check that the stair (in both the original raised position and the deployed position) will be appropriate for use. Report any problems to Power Step or make minor adjustments to suit.
3. With the stair deployed and a support (to suit) under the lower end of the stair, release the side isolator clamp bolts nuts and the shear isolator cap bolts (shown in **View 4**) as required to allow the base of the stair to tilt away from the back plate by a distance of about 10 to 12 mm at the top, as shown on **View 5**. Be sure that the top clamp nuts are not undone so far that they allow the stair base to fall forward. ALTERNATIVELY, the installer may choose to remove all of the side isolator clamp bolt nuts and all of the shear isolator clamp bolts and then fully remove the stair base and stair from back plate before welding.
4. Weld the back plate to the bumper skin as per **View 3**.
5. Reinstall the isolators
6. Connect stair hydraulics to power pack.

FOLDING STAIRWAY

Caterpillar 988H Loader

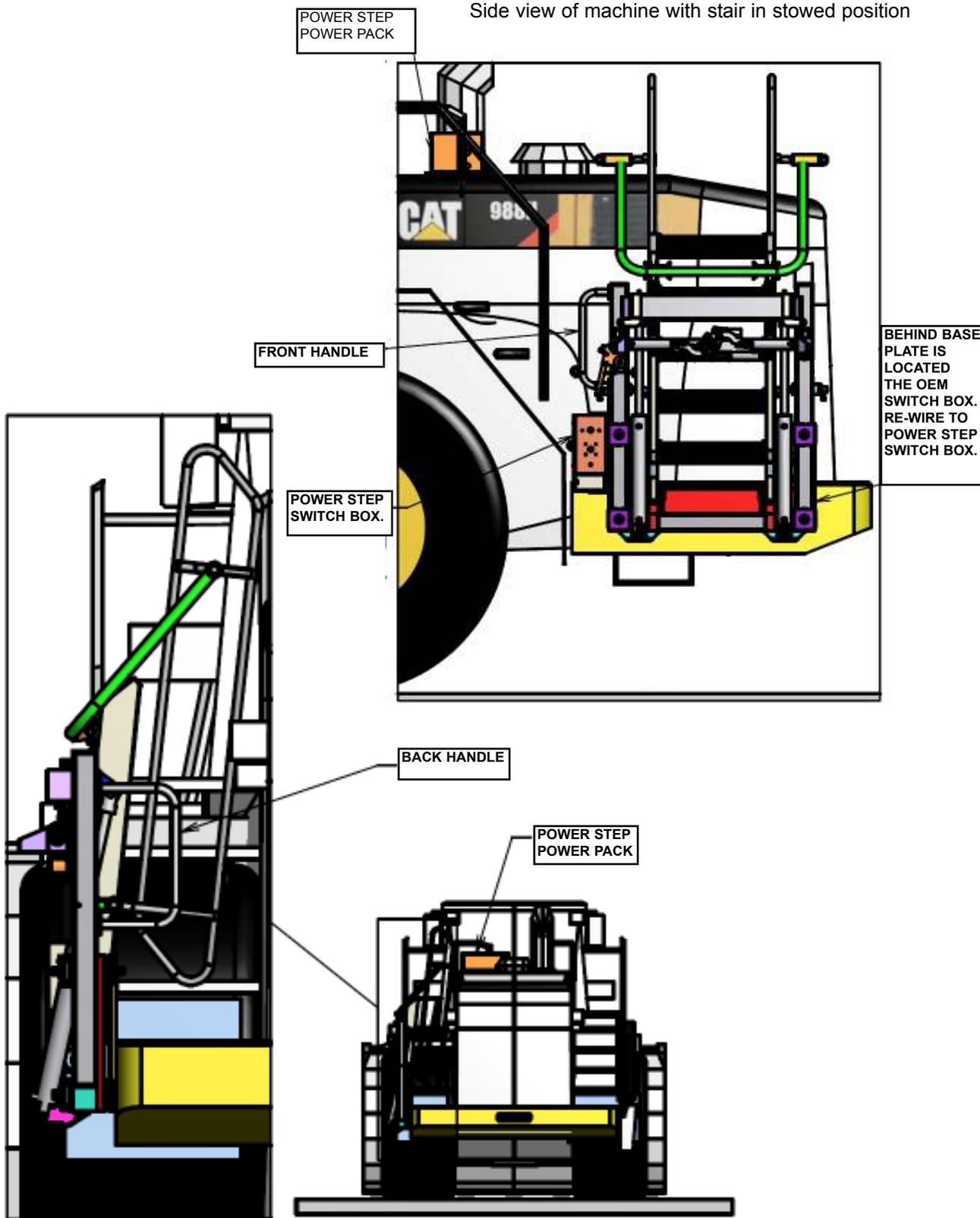


Section 1 Installation Instructions - Drawing

See Drawing PSA-C988H-A01

VIEW 1

Side view of machine with stair in stowed position



VIEW 2

Rear view of machine with stair in stowed position

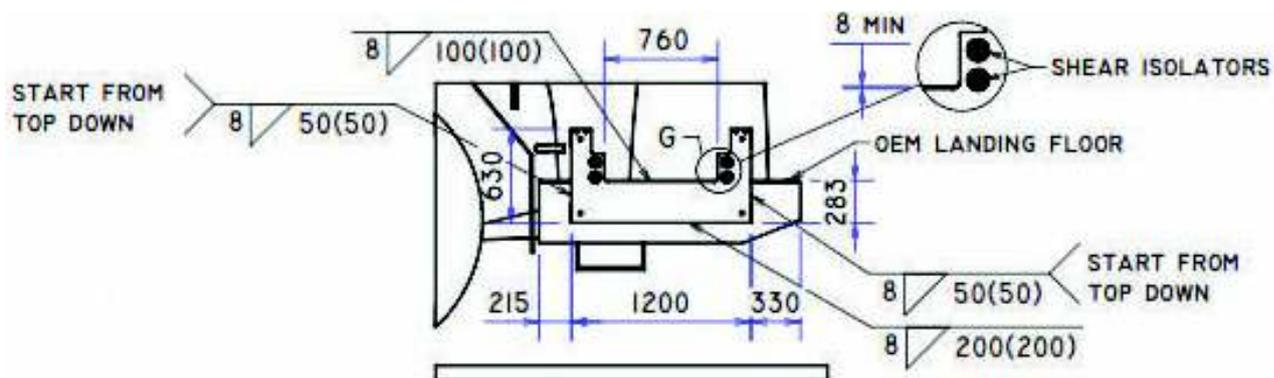
FOLDING STAIRWAY

Caterpillar 988H Loader



Section 1 Installation Instructions Drawing

See Drawing PSA-C988H-A01



VIEW 3

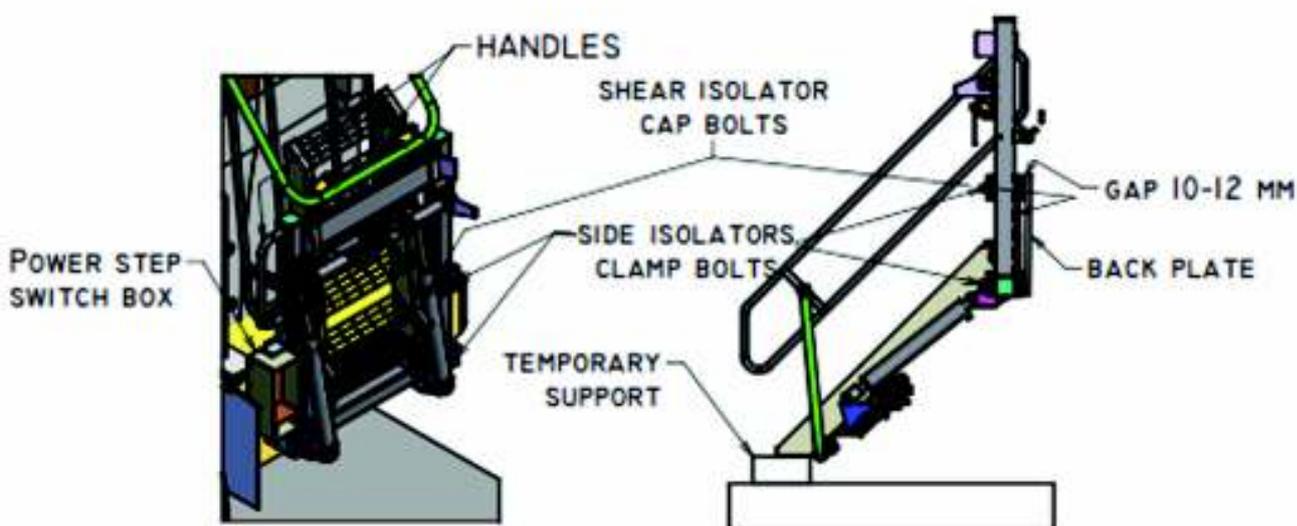
Location of back plate on bumper and welding details

NOTE:

The whole purpose of lifting the base away from the back plate or removing the base from the back plate in iii above is to ensure that the welding at the top of the back plate does not burn the rubber isolators. If the welding can be undertaken in small increments so that the isolators do not heat above 70°C without lifting or removing the base away, lifting/removing the base will not be required.

USE SAFE WORKING PRACTICES AT ALL TIMES

Welding Cat SP to AS1554,8cfw uno.



VIEW 4

Pictorial view of rear corner of the machine with stair in deployed position

VIEW 5

Rear view of stair with isolator bolts released

FOLDING STAIRWAY

Caterpillar 988H Loader



Section 1 Installation and Mounting Instructions (cont.)

WARNING

Raising the POWER STEP platform by external means can create a vacuum in the hydraulic cylinder and create the opportunity to allow air into the hydraulic system, defeating the inherent safety features of the POWER STEP.

This must be avoided, to maintain safe operation of the POWER STEP.

In instances where the use of external means to raise the platform must be used, please follow the following instructions:

Loosen hard plumbed hydraulic lines on cylinder side of lock valve on cylinder.

Raise platform by available means.

Note: Make necessary arrangements to collect displaced oil, and be aware that air enters the piston side of the cylinder as platform is raised.

Lock in raised position.

Re-tighten hydraulic fittings.

SECURE THE PLATFORM IN THE RAISED POSITION, MECHANICALLY, CHAIN & TAGOUT THE POWER STEP

To recommission the POWER STEP:

Loosen hydraulic fittings on cylinder side of lock valve.

Note: Collect displaced oil.

Lower platform to lowest position, using alternate safety approved means, fully retracting cylinder. Ensure all personnel are clear of step radius.

Operate electrical control switch to purge air from the hydraulic line systems, lock valve and cylinder.

Tighten the hydraulic fittings either side of lock valves to restriction fittings.

Cycle step unloaded several times to purge all air from hydraulic system.

The Power Step will not operate correctly if there is any air in the hydraulic circuit (due to the incorrect operation of the lock valve).

FOLDING STAIRWAY

Caterpillar 988H Loader



Section 2 Recommended Maintenance Procedure

Daily

Visually check stairway and structure for damage, loose components, handrails, etc.

Check for hydraulic oil leaks from hydraulic cylinders, plumbing and hoses.

Notify the appropriate supervisor for any observed damage or malfunction.

500 Hours

Grease 2 grease nipples on hinge pins

Check main mounting bolts for torque.

Check hydraulic oil level in power pack and top up as necessary. (Stairway in raised position).

Top up using same hydraulic oil as used in hydraulics of machine.

Thoroughly check all electrical wiring for damage, replace as necessary.

Repeat daily check as above

5000 Hours

Change hydraulic oil in tank of hydraulic power pack (5.0 litres)

It is recommended that the same hydraulic oil be used in the power pack as the hydraulics of the machine.

Check and inspect all main bolts on stairway system.

Retorque if required.

Repeat daily check as above

FOLDING STAIRWAY

Caterpillar 988H Loader



Section 3 Operating Procedure

To Lower Stairway (from the machine)

Position machine in a level, safe area, away from the work face, whenever possible. Apply park brake and lower engine speed to idle.

Check that the area below the Ladder Access System is clear of people and obstacles, and lower ladder by operating the two position electrical switch adjacent to the ladder, to the down position by pressing the switch down.

Hold the switch in the down position until ladder is fully lowered.

If the truck is parked on uneven ground, the bottom of the stairway may touch the ground before the ladder is in the fully lowered position.

Should this occur, descend the ladder with caution.

To Raise Stairway

Ascend the ladder onto the landing of the Loader.

Ensure the area around the ladder is clear of people and standing to the side, clear of the area the handrails and ladder raises into, operate the electrical switch to the raise position (up).

Hold the switch in the up position until the ladder is in the fully raised position.

The ladder is now raised and stored.

OPERATING NOTES

NOTE: FLOW CONTROL VALVE ADJUSTMENT:

The valve should be positioned to restrict the flow and speed of the Power Step when lowering. Adjust the knob on top of the valve by turning left or right (clockwise) when the step is being lowered, until it is lowering at a safe and reasonable speed.

When it is adjusted, lock the adjusting knob by tightening the grub screw located on the side of the knob.

NOTE: MAGNETIC 'GO' SWITCH ADJUSTMENT:

The switch target trigger area is located on the opposite side and end from the cable entry point on the switch. Once it is mounted to the switch bracket, adjust the switch in or out from the stair steel trigger point, to be within 3mm - 10mm from touching each other when the stair is in the desired rest position.

[DO NOT EXCEED 10MM DISTANCE BETWEEN THE SWITCH AND STRIKER PLATE].

Test by raising and lowering the Power Step a couple of times and adjust again if necessary.

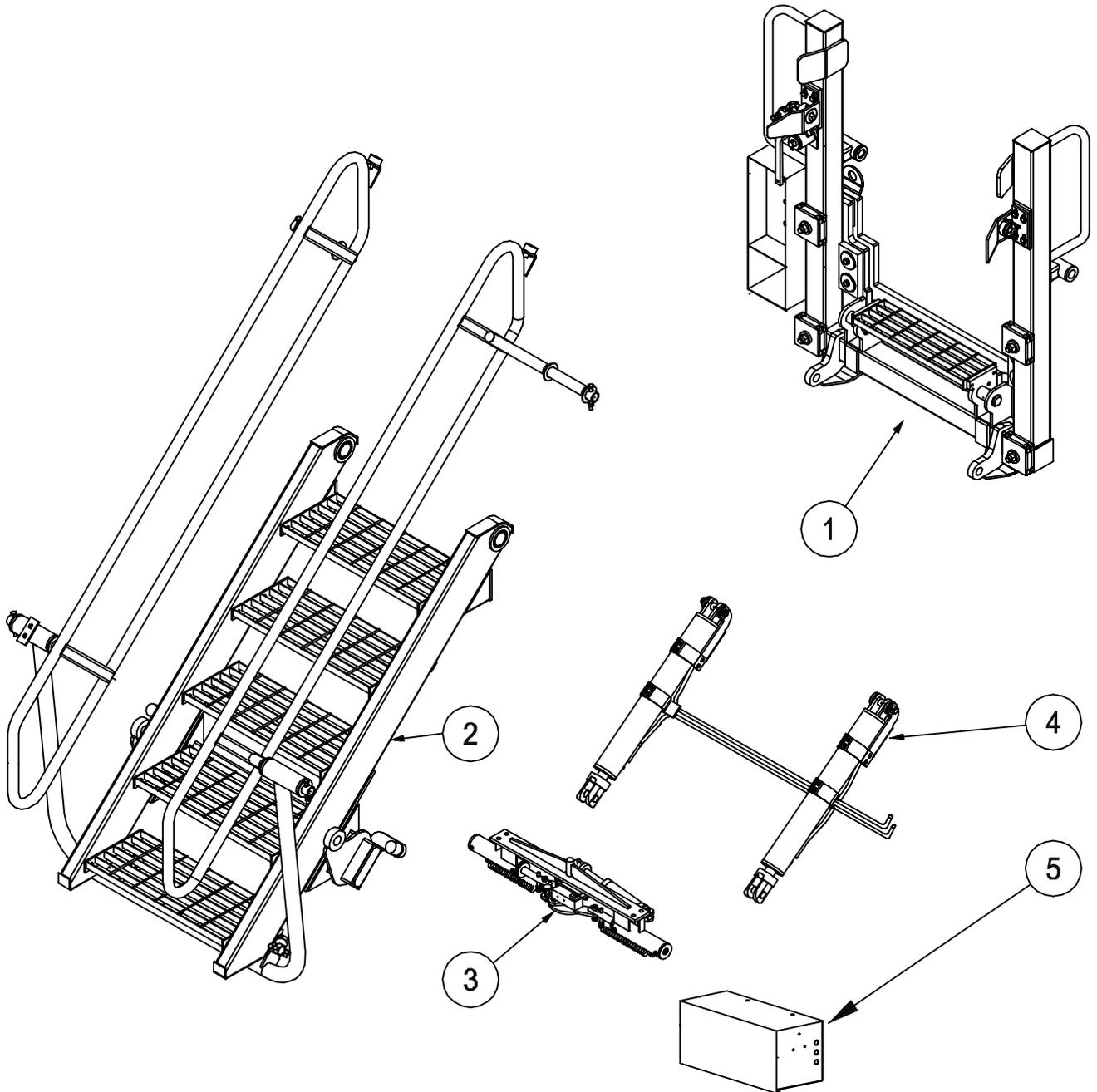
FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4 Assembly Complete

PSA-CAT988H-U3



FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4 Assembly Complete

PSA-CAT988H-FS

See Drawing Page 9

ITEM	PART NO.	PART NAME	QTY		
	PSA-CAT988H-U3	ASSEMBLY COMPLETE	1		
1	PS-23838-A	STAIR BASE FRAME	1		
2	PSA-01-A002-03A	STAIR ASSEMBLY	1		
3	PS-23847-A	LATCH ASSEMBLY	1		
4	PS-62996-A	HYDRAULIC CYLINDERS (Stair)	1		
5	PS-80103A-SLD	POWER PACK	1		

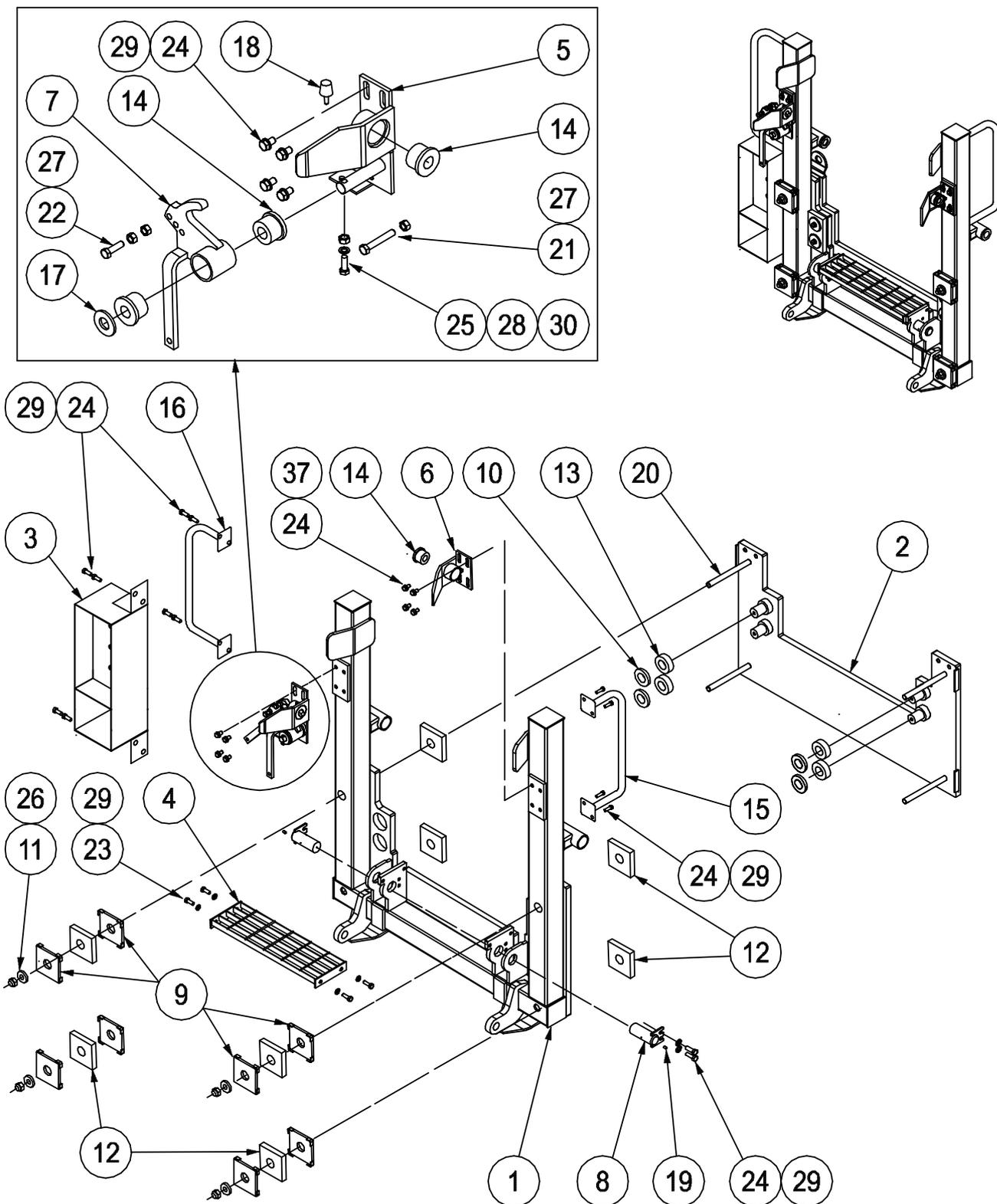
FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4.1 Base Frame and Mounting Assembly PS-23838-A

See Parts List Pg. 12



FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4.1 Base Frame and Mounting Assy

PS-23838-A

See Drawing Page 11

Item	Part No.	Part Name	Qty		
1	PS-23838	BASE FRAME	1		
2	PSA-CAT-988H-B02	MOUNTING PAD FABRICATION	1		
3	PSA-002-A02-02	SWITCH BOX ASSEMBLY	1		
4	PS-23839	TOP STAIR TREAD	1		
5	PS-23841-LH	STRIKER-LEFT SIDE	1		
6	PS-23841-RH	STRIKER-RIGHT SIDE	1		
7	PS-23854	MANUAL RELEASE LEVER	1		
8	PS-23828	PIVOT PIN	2		
9	PS-23833-02	ISOLATOR PLATE	4		
10	PS-23834-01	SHEAR ISOLATOR CAP	4		
11	PS-23834-03	FACE ISOLATOR WASHER	4		
12	PS-23836-01	ISOLATOR RUBBER	8		
13	PS-23836-02	RUBBER ISOLATOR	4		
14	PS-23846-02	LATCH BUSH	3		
15	PSA-HRL-B02-01	HANDLE A	1		
16	PSA-HRL-B02-02	HANDLE B	1		
17	PS-23846-03	RELEASE LEVER SPACER	1		
18	PS-1066553	LATCH LEVER BUFFER Mackay 12252555 M6	1		
19	PS-61006-2	GREASE NIPPLE M6	2		
20	PS-M20X250	THREADED ROD-M20 x 250	4		
21	CPS-M12X75ZP	BOLT-M12 x 75	1		
22	CPS-M12X40ZP	BOLT-M12 x 40	4		
23	CPS-M12X25ZP	BOLT-M12 x 25	1		
24	CPS-M12X20ZP	BOLT-M12 x 20	16		
25	CPS-M8X35ZP	BOLT-M8 x 35	1		
26	CPS-M20NZP	NUT-M20	6		
27	CPS-M12NZP	NUT-M12	5		
28	CPS-M8NZP	NUT-M8	1		
29	CPS-M12WH	WASHER-HARDENED-M12	8		
30	CPS-M8WH	WASHER-HARDENED-M8	2		

FOLDING STAIRWAY

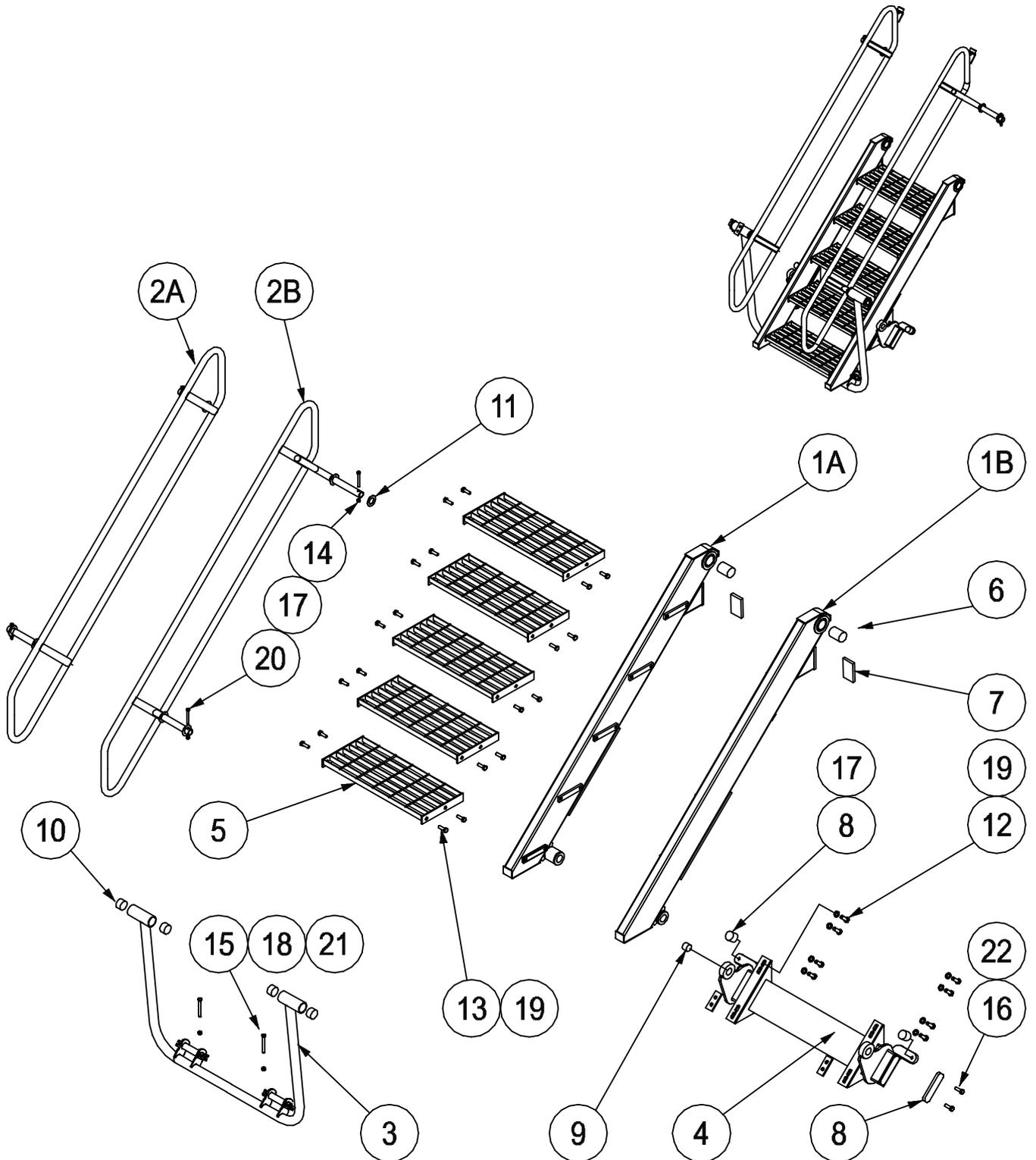
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Section 4-2 Stair Assembly

See Parts List Page 14

PS-01-A002-03A



FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-2 Stair Assembly

PS-01-A002-03A

See Drawing Page 13

Item	Part No.	Part Name	Qty		
1A	PSA-01-B004-03	STAIR STRINGER FAB. L/H (5 Tread)	1		
1B	PSA-01-B005-03	STAIR STRINGER FAB. R/H (5 Tread)	1		
2A	PSA-01-B011-02	STAIR HANDRAILS L/H	1		
2B	PSA-01-B012-02	STAIR HANDRAILS R/H	1		
3	PS-23863	HANDRAIL LINK POST	1		
4	PS-23849	STAIR ACTUATOR BEAM	1		
5	PS-22266	STAIR TREAD	5		
6	PS-23857	HINGE BUSH	2		
7	PS-23848-07	BUMPER PAD (Rubber)	4		
8	PS-40003	BUFFER-RUBBER-MACKAY M12503555 M10	2		
9	PS-23849-01	BUSH-(Stair Actuator Beam)	2		
10	PS-23858	BUSH-(Handrail)	8		
11	PS-23862-05-3	WASHER	4		
12	CPS-M12X30ZP	BOLT-M12 x 30	8		
13	CPS-M12X20ZP	BOLT-M12 x 20	20		
14	CPS-M10X85ZP	BOLT-M10 x 85	4		
15	CPS-M8X75ZP	BOLT-M8 x 75	4		
16	CPS-M6X15ZP	BOLT-M6 x 15	4		
17	CPS-M10NN	NUT-NYLOC-M10	6		
18	CPS-M8NN	NUT-NYLOC-M8	4		
19	CPS-M12WH	WASHER-HARDENED-M12	28		
20	CPS-M10WH	WASHER-HARDENED-M10	4		
21	CPS-M8WH	WASHER-HARDENED-M8	8		
22	CPS-M6WH	WASHER-HARDENED-M6	6		

FOLDING STAIRWAY

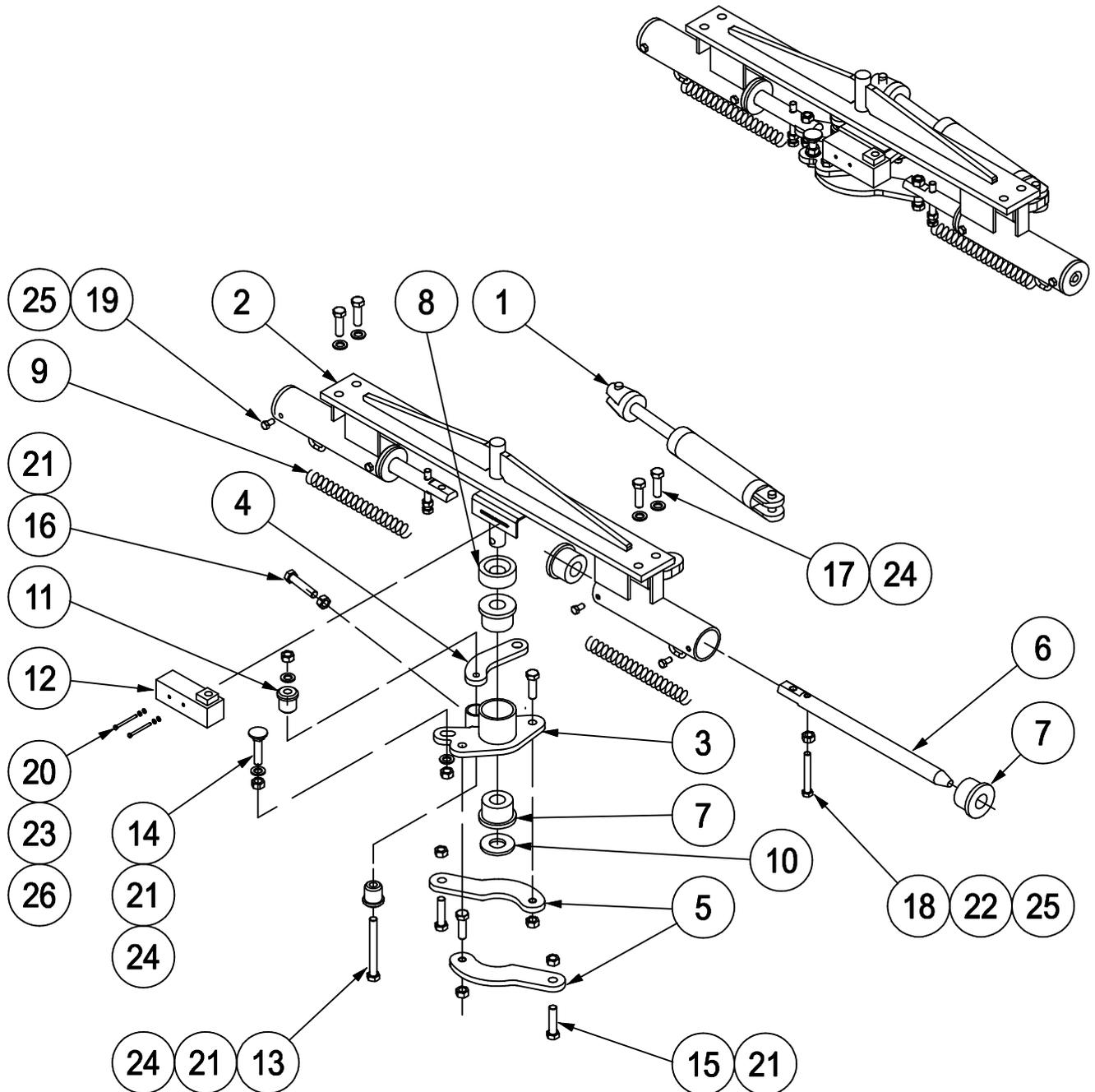
Caterpillar 988H Loader



Section 4-3 Latch Assembly

PS-23847-A

See Parts List Page 16



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Caterpillar 988H Loader



Section 4-3 Latch Assembly PS-23847-A

See Drawing Page 15

Item	Part No.	Part Name	Qty		
1	PS-62997	CYLINDER	1		
2	PS-23842	LATCH BASE	1		
3	PS-23845-99	LATCH WRIST	1		
4	PS-23845-98	ACTUATOR ARM	1		
5	PS-23844-01-10	BOLT LINK	2		
6	PS-23843	LATCH BOLT	2		
7	PS-23846-02	LATCH BUSH	6		
8	PS-23846-01	WRIST SPACER	2		
9	PS-23847	SPRING	2		
10	PS-23844-02-5	WASHER	4		
11	PS-S245	LATCH BUSH-(WRIST PLATE) S245	2		
12	PS-75430	PROXIMITY SWITCH	1		
13	PS-M12X110ZP	BOLT-M12 x 110	1		
14	CPS-M12X55ZP	BOLT-M12 x 55 (Striker)	1		
15	CPS-M12X40ZP	BOLT-M12 x 40	4		
16	CPS-M12X35ZP	BOLT-M12 x 35	1		
17	CPS-M12X25ZP	BOLT-M12 x 25	4		
18	CPS-M10X75ZP	BOLT-M10 x 75	2		
19	CPS-M10X15ZP	BOLT-M10 x 15	4		
20	CPS-M5X45ZP	BOLT-M5 x 50	2		
21	CPS-M12NZP	NUT-M12	1		
22	CPS-M10NZP	NUT-M10	6		
23	CPS-M5NN	NUT-NYLOC-M5	2		
24	CPS-M12WH	WASHER-HARDENED-M12	12		
25	CPS-M10WH	WASHER-HARDENED-M10	6		
26	CPS-M5WH	WASHER-M5	2		

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Caterpillar 988H Loader

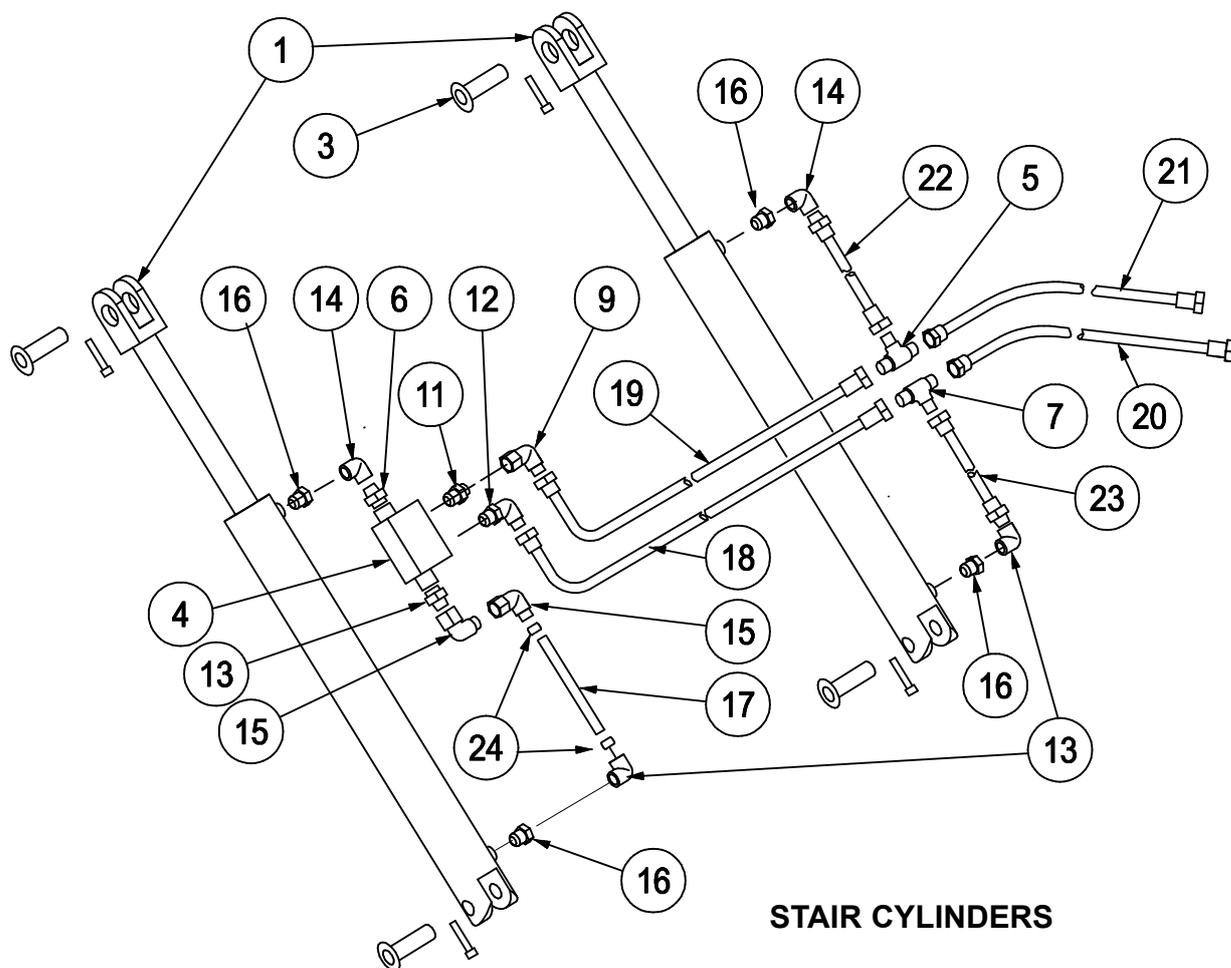
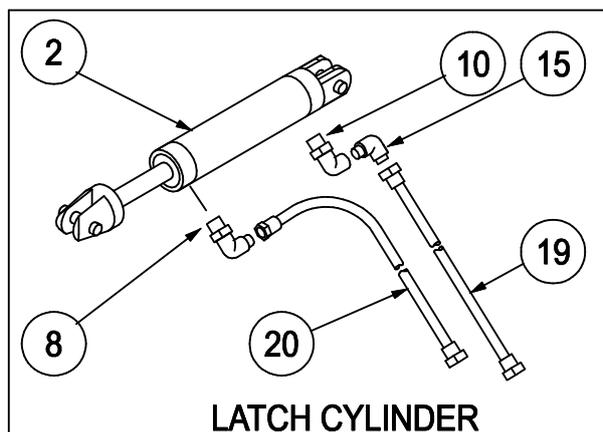
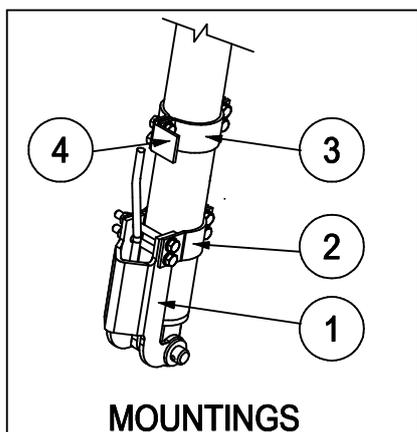


Section 4-4 Hydraulic Cylinders

P/No. PS- 62996-A (Stair)

P/No. PS- 62997-A (Latch)

See Parts list Pg. 18



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Section 4-4 Hydraulic Cylinders

See Drawing Pg. 17

Item	Part No.	Part Name	Qty		
1	PS-62996	HYDRAULIC CYLINDER ASSEMBLY	2		
-	PS-63103	SEAL KIT-STAIR (NOT SHOWN)	1		
2	PS-62997	HYDRAULIC CYLINDER - LATCH	1		
-	PS-62997-SK	SEAL KIT-LATCH (NOT SHOWN)	1		
3	PS-23856	CYLINDER PINS	2		
4	PS-63201	VALVE - PILOT OPERATED LOCKING	1		
5	PS-61140	FITTING-T -7/16"	1		
6	PS-61145	FITTING - 9/16" JIC SWIVEL	1		
7	PS-61149	FITTING - T 9/16"	1		
8	PS-61150	FITTING - ELBOW 7/16"	1		
9	PS-61151	FITTING - ELBOW 7/16"	2		
10	PS-61152	FITTING - ELBOW 9/16"	2		
11	PS-61153	FITTING - 1/4" BSPPx7/16" STRAIGHT	2		
12	PS-61154	FITTING - ELBOW- O RING 1/4BSPPx7/16" JIC	1		
13	PS-61157	FITTING - STRAIGHT 1/4"BSPPx9/16" JIC	1		
14	PS-61158-5mm	FITTING - 5mm RESTRICTION 90 DEG	4		
15	PS-61159	FITTING- ELBOW 9/16"	4		
16	PS-61163	REDUCER JIC x BSPP	1		
17	PS-61160	TUBE-900/1200	1		
18	PS-60051-900mm9/16	HOSE-HYDR. (9/16" JIC ST. SWIVEL 0.9M)	1		
19	PS-60051-900mm7/16	HOSE-HYDR. (7/16" JIC ST. SWIVEL 0.9M)	1		
20	PS-60051-3.5M 9/16	HOSE-HYDR. (9/16" JIC ST. SWIVEL 3.5M)	2		
21	PS-60051-3.5M 7/16	HOSE-HYDR. (7/16" JIC ST. SWIVEL 3.5M)	2		
22	PS-60051-280mm9/16	HOSE-HYDR. (9/16" JIC ST. SWIVEL 0.28M)	1		
23	PS-60050-280mm7/16	HOSE-HYDR. (7/16" JIC ST. SWIVEL 0.28M)	1		
24	PS-60031-FT	FERRULES	2		

MOUNTINGS

Item	Part No.	Part Name	Qty		
1	PS-23855-98	PORT SHIELD PLATE	2		
2	PS-23855-02-5	PORT SHIELD CLAMP	4		
3	PS-23855-99	PIPE SUPPORT MOUNTING	2		
4	PS-23855-03-5	PIPE SUPPORT CLAMP	4		

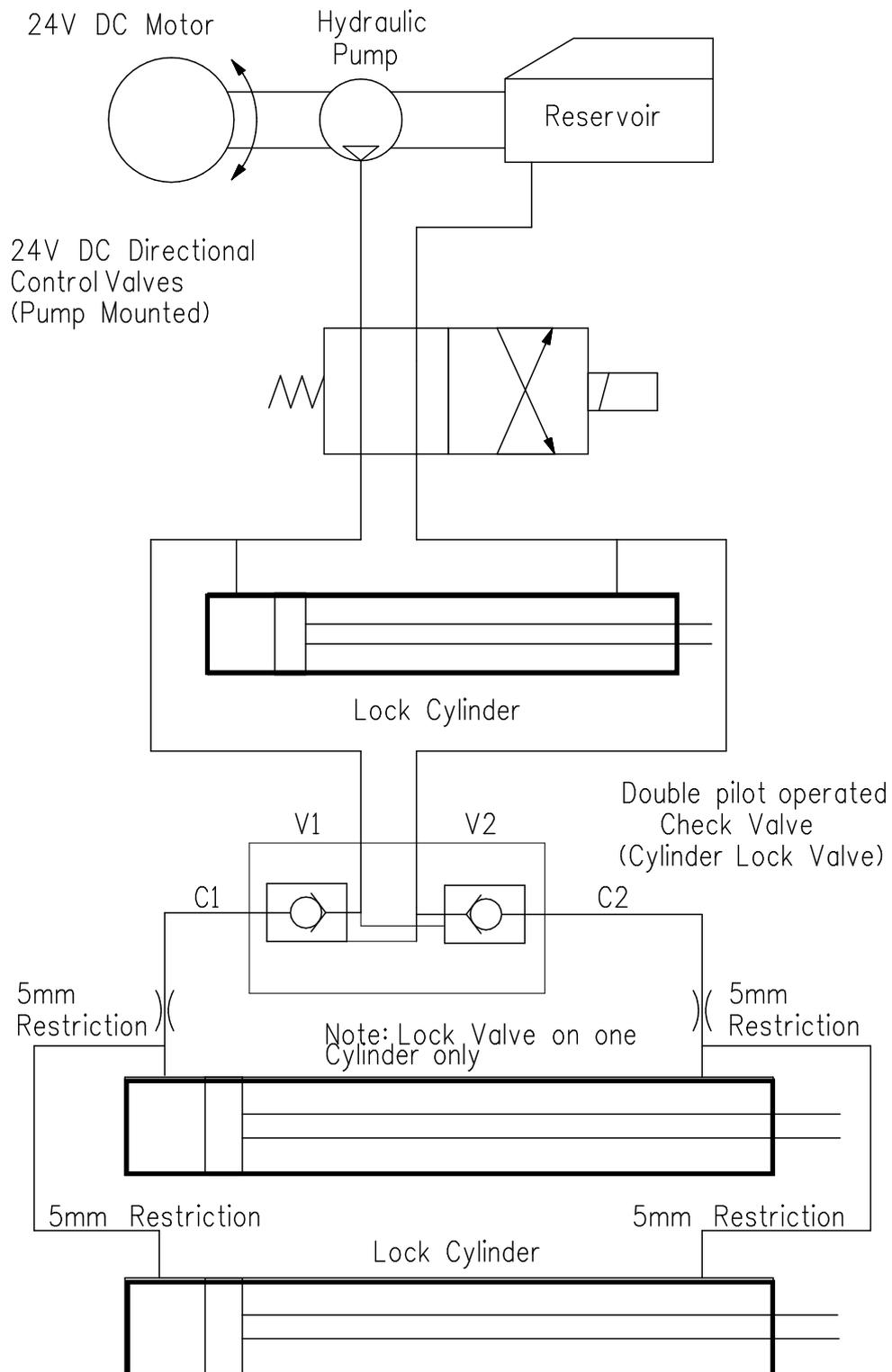
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Section 4-4 Hydraulic Cylinder (Valve Diagram)

Double Acting Hydraulic System with directional Control Valves and Cylinder Lock Valves

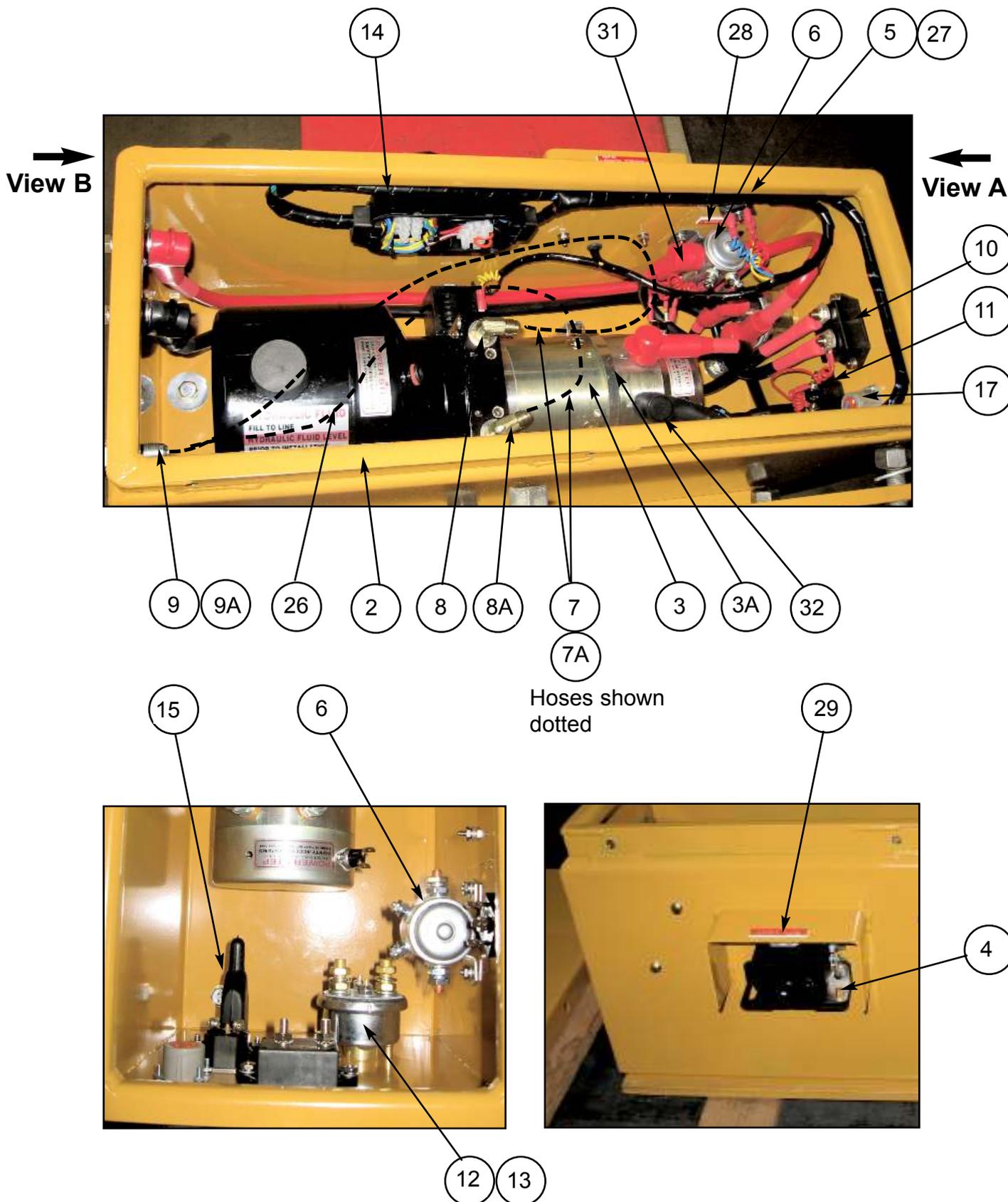


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Section 4-5 Power Pack PS- 80103A-SLD

See Parts List Pg 22



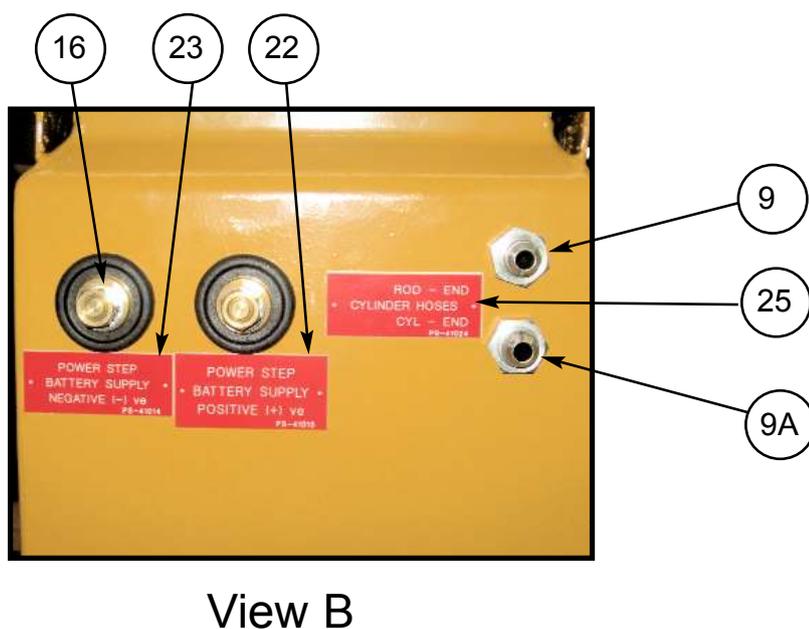
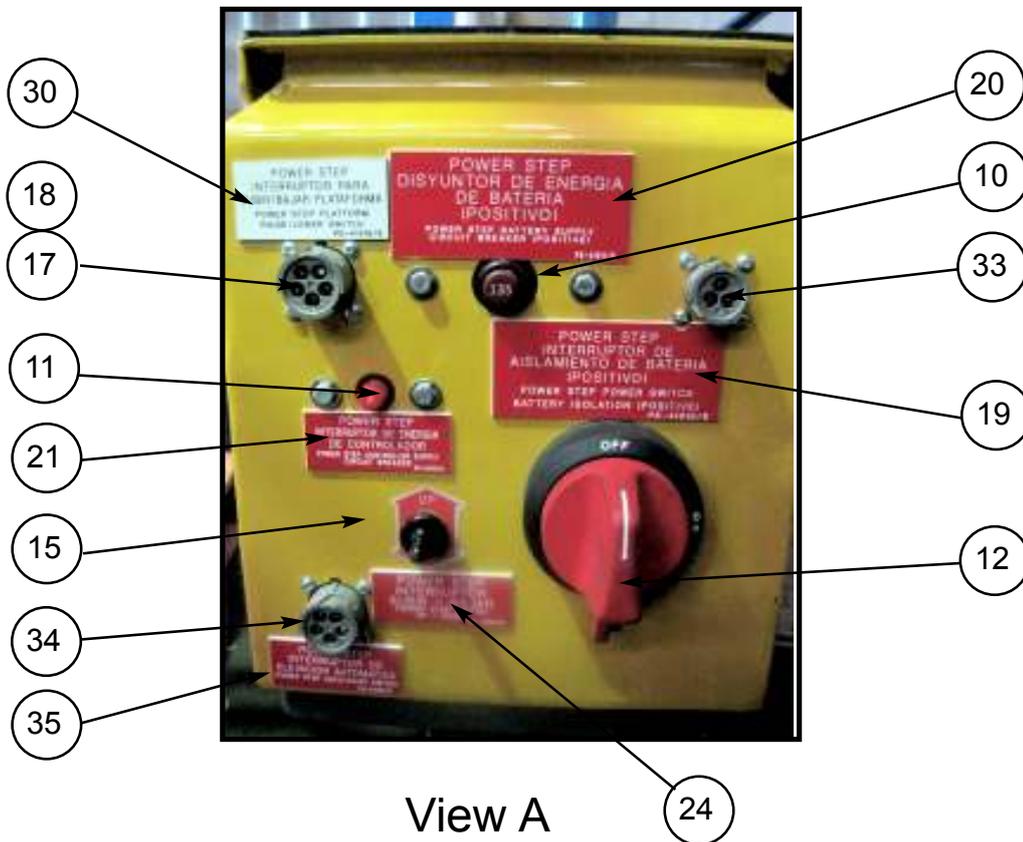
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Caterpillar 988H Loader



Section 4-5 Power Pack PS-80103A-SLD

See Parts List Pg 22



FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-5 Power Pack

PS-80103A-SLD

See Photos Pg 20 & 21

Item	Part No.	Part Name	Qty		
1	PS-80103A-SLD	POWER PACK ASSEMBLY	1		
2	PS-21107-METAL	MOTOR ENCLOSURE- SEALED ST/ST	1		
3	PS-80103A	POWER PACK	1		
3A	PS-80103-CLAMP	CLAMP ELECTRIC MOTOR	1		
4	PS-82415	AUDIBLE ALARM	1		
5	PS-84214	BRIDGE RECTIFIER	1		
6	PS-82492	SOLENOID 24V START MOTOR	1		
7	PS-60050-900MM 9/16"	HYDR. HOSES 9/16" JIC STRAIGHT SWIVEL	1		
7A	PS-60050-900MM 7/16"	HYDR. HOSES 7/16" JIC STRAIGHT SWIVEL	1		
8	PS-61152	HYDRAULIC FITTING 9/16"	1		
8A	PS-61150	HYDRAULIC FITTING 7/16"	1		
9	PS-61177	HYDRAULIC FITTING 9/16"	1		
9A	PS-61176	HYDRAULIC FITTING 7/16"	1		
10	PS-84213	135A CIRCUIT BREAKER	1		
11	PS-84212	10A CIRCUIT BREAKER	1		
12	PS-84303	ISOLATION SWITCH	1		
13	PS-84303-B	ISOLATION SWITCH BRACKET	1		
14	PS-1712080	SEALED WIRING BOX	1		
15	PS-73012	TOGGLE SWITCH KIT	1		
16	PS-82493	BATTERY FEED STUDS	2		
17	PS-HD10-5-16P	5 PIN SOCKET	1		
18	PS-HD10-5-16S	5 PIN PLUG	1		
19	PS-41010	DECAL-Battery Isolation	1		
20	PS-41011	DECAL-Battery Supply C/B-135A	1		
21	PS-41012	DECAL-Controller Supply C/B-10A	1		
22	PS-41013	DECAL-Battery Supply-Positive	1		
23	PS-41014	DECAL-Battery Supply-Negative	1		
24	PS-41023	DECAL-Up/Down	1		
25	PS-41024	DECAL HYDRAULIC-HOSES	1		
26	PS-41041	DECAL OIL TANK	1		
27	PS-41019	DECAL BRIDGE RECTIFIER	1		
28	PS-41017	DECAL SOLENOID	1		
29	PS-41018	DECAL ALARM	1		
30	PS-41016	DECAL RAISE/LOWER SWITCH	1		
31	PS-73010	RUBBER BOOT RED	6		
32	PS-73009	RUBBER BOOT BLACK	3		
33	PS-HD10-3-16P	3 PIN SOCKET (PARK BREAK)	1		
34	PS-HD10-5-16P	5 PIN SOCKET (AUTO-RAISE)	1		
35	PS-41032	DECAL AUTO-RAISE SOCKET	1		

FOLDING STAIRWAY

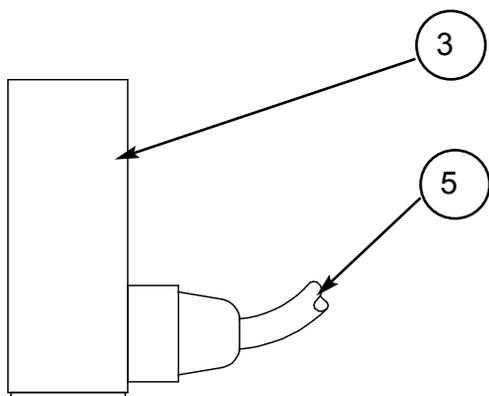
Caterpillar 988H Loader



Section 4-6 Electrical Controls

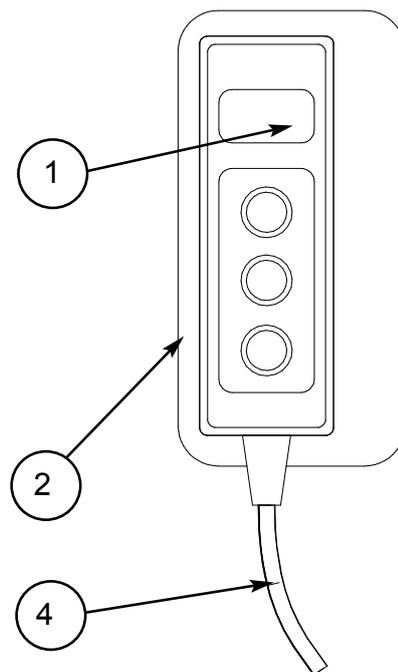
Proximity Switch Assembly

Mounted on Fixed Landing



Control Pendant Switch

Mounted on Handrail



Cab Harness & Equipment

Refer also Wiring Harness Drawings



FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-6 Electrical Controls

See Page 24

Item	Part No.	Part Name	Qty		
1	PS-73013	CONTROL PENDANT SWITCH	1		
2	PS-73013-B	CONTROL PENDANT BRACKET	1		
3	PS-75430	PROXIMITYSWITCH	1		
4	PS-77005	HAND RAIL SWITCH HARNESS	1		
5	PS-77004	PROXIMITY MAGNETIC SWITCH HARNESS	1		
6	PS-77002	CABIN BOX LED LIGHT INDICATOR	1		
7	PS-77003	WIRING HARNESS	1		

WARNING

LOW VOLTAGE BATTERIES WILL HARM THE FUNCTION OF THE POWER PACK AND THE CONTROL SWITCHES.

DAMAGE RESULTING DUE TO LOW VOLTAGE BATTERIES WILL VOID WARRANTY ON ALL ELECTRICAL COMPONENTS.

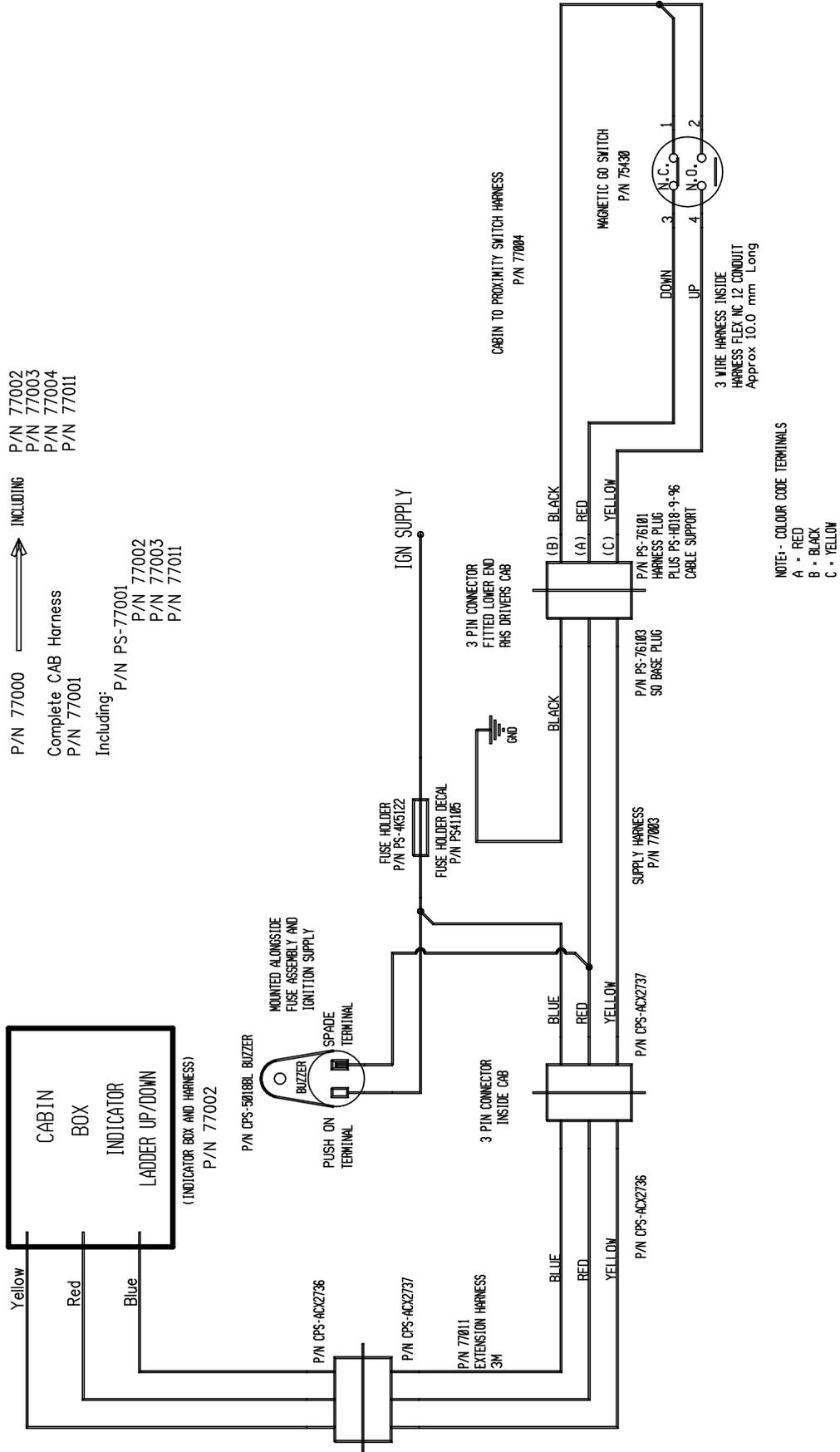
FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-6 Electrical Controls Wiring Harness

WIRING HARNESS



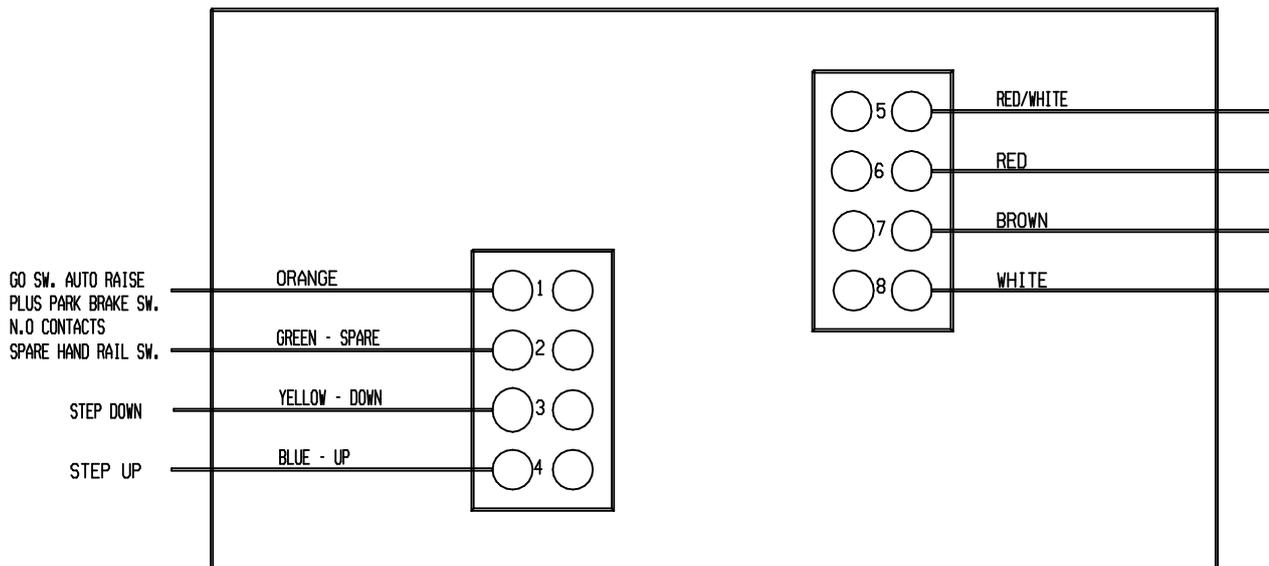
FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-6 Electrical Controls Electrical Layout 2.

CONNECTOR BOX
PS-1712080



GO SWITCH HARNESS (CABIN TO GO SWITCH) - P/N PS-77004
(CABIN INDICATOR LADDER UP/DOWN)

BLACK -
BLACK -
(BRIDGE NO 1 AND NO 2 IN GO SW)
RED -
YELLOW -

NO 1 TERMINAL N.C. CONTACT
NO 2 TERMINAL N.O. CONTACT
NO 3 TERMINAL N.C. CONTACT
NO 4 TERMINAL N.O. CONTACT

3 PIN PLUG CONNECTOR PINS
LOWER R/H OUTSIDE CAB

(B)
(A)
(C)

LENGTH 10m
(HARNESS FLEX NO 12)

HAND RAIL SWITCH HARNESS (P/N 77010)
(HANDRAIL SW TO POWER PACK BOX)

COLOUR	SW CONTACTS	TERMINAL NO
RED/WHITE	NO 1	NO 5
BLUE	NO 2	NO 4
YELLOW	NO 3	NO 3
GREEN	NO 4	NO 2

NO 5
NO 4
NO 3
NO 2

5 PIN PLUG CONNECTOR PINS
MOTOR ENCLOSURE

(C)
(D)
(B)
(A)

LENGTH 10m
(HARNESS FLEX NO 12)

FOLDING STAIRWAY

Caterpillar 988H Loader



Section 4-6 Electrical Controls Electrical Layout 3.

WIRING HARNESS

GO SWITCH - CABIN INDICATOR P/S-77002

SUPPLIED WITH CONNECTOR P/N CPS-ACX2736

UP/DOWN LIGHTS

N.C.	-	RED	-	BLACK] LINKED
N.O.	-	YELLOW	-	BLACK	

HAND CONTROL SWITCH - MOUNTED ON HANDRAILS - P/N 73013

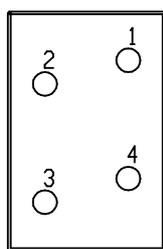
POWER STEP WIRING HARNESS (10M) AND CONNECTIONS SUPPLIED

CONTACTS

1	-	RED/WHITE	-	POWER SUPPLY
2	-	BLUE	-	UP SWITCH
3	-	YELLOW	-	DOWN SWITCH
4	-	GREEN	-	START SOL MOTOR [FRS POWER PACK ONLY (SPARE)]

PENDANT SWITCH

STANDARD SWITCH WIRING AND CONNECTIONS



P/N PS-77013

HARNESS AND CONNECTIONS SUPPLIED WITH SWITCH P/N 77013 (NOT REQUIRED)

1	-	POWER	-	GREEN] [FRS POWER PACK SYSTEM ONLY]
2	-	UP SWITCH	-	WHITE	
3	-	DOWN SWITCH	-	BLACK	
4	-	START/SOL MOTOR	-	RED	