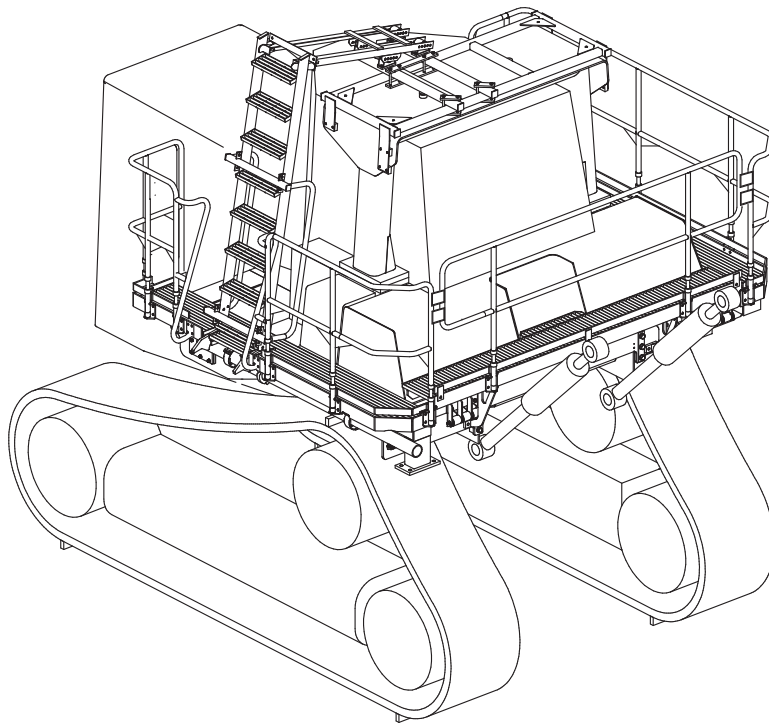




FOLDING LADDER

Manual for Cat D9T Dozer
Complete with Wrap-around Walkways



Model No.: PSA-D9T-RHW-FL
Serial No.: LD9T-RHW-001 to ~
Date Manufactured: July 2011

FOLDING LADDER

Caterpillar D9T Dozer



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NOTE

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

Section 1

Installation and Mounting Instructions

See Drawing **22 114** (Page 4)

1. Per **Views Y** and **Z**, locate 24 110 01 Left Inner Bolting Pad in the upper corner of the left mudguard. Secure in place with substantial tack welds.
2. Per **View Z**, locate 24 110 02 Right Inner Bolting Pad in the upper corner of the right mudguard. Note that the holes in this pad are not on the centreline and it can be rotated to give the best compliance with the required dimension. Secure with substantial tack welds.
3. Per **Views Y** and **Z**, fit the two Outer Bolting Pads and their Gussets behind the mudguards, not inside the mudguards. Tack weld substantially.
4. Per **Views X** and **Y**, fit the left side bolting pads and secure with substantial tack welds.
Note that:
  - downward vertical dimensions are to be measured from the top surface of the mudguard plate at the back of the dozer (or the extended alignment from the top surface) not from any serrated tread plate, and
  - there is a side bolting plate to be fitted on the right side of the machine at the front, mirroring the location and details given for the pad at the front left. There is no pad at the side rear right.
5. Try the ladder and landing set in place per the other installation drawings and if everything fits, complete the welds per this drawing.

[illegible]

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Caterpillar D9T Dozer



Section 1 Installation Instructions Drawings

Procedure

See Drawing **24 115** (Page 6)

Starting with the bolting pads already welded to the machine per **View Z** and Drawing 25 115, fit the mounting components shown on this drawing:

1. Spreader Plate 22 041 to the bolting pads at the back of the the machine and four sets of three Isolators 21 930 to the Spreader Plate per **Views V, W** and **Y**.
2. Fit Isolator Riser 24 111 02, three Isolators 21 930, Bush Pin 21 933 and Finger Plate Set 24 112 00 to the Side Bolting Plates on the side of the mudguards at the front, both sides, per **View X**.
3. Fit three Isolators 21 930 with Packer 24 111 02 behind each, Bush Pin 21 933 and Finger Plate Set 24 112 00 to the Side Bolting Plates on the side of the left mudguards at the rear, per **View W**.

See Drawing 24 116 (Page 7)

1. Per **Detail X**, fit Isolator Pin Brackets 21 931 99/98 to the arms at the back end of the beams under the two side landings.
2. Fit the left side landing (with ladder fitted) to the machine. Bolting pads under the beam land on top of the Finger Plate Sets 24 112 00 mounted to the side of the mudguards, front and back. Isolator Pin Brackets 21 931 99/98 engage Isolators 21 930 on the Spreader Plate and are secured with Isolator Bush Pin 21 933.
3. Fit the right side landing. Same as left side except no mounting at the side rear of the mudguard.
4. Fit the rear landing per **View Y** and **Detail W**.

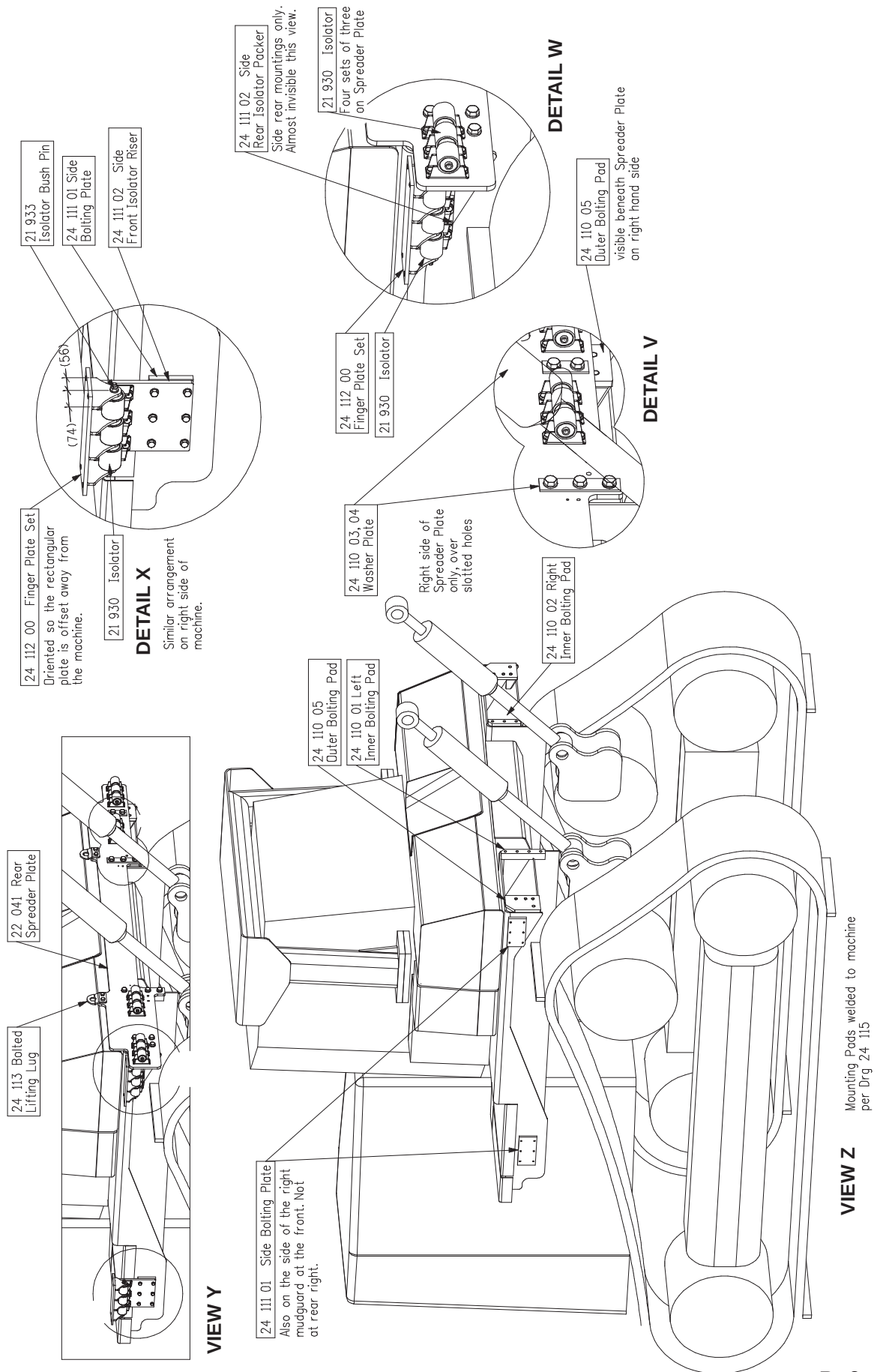
USE SAFE LIFTING AND WORKING PROCEDURES AT ALL TIMES.

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Section 1 Installation Instruction Drawings - 24 115

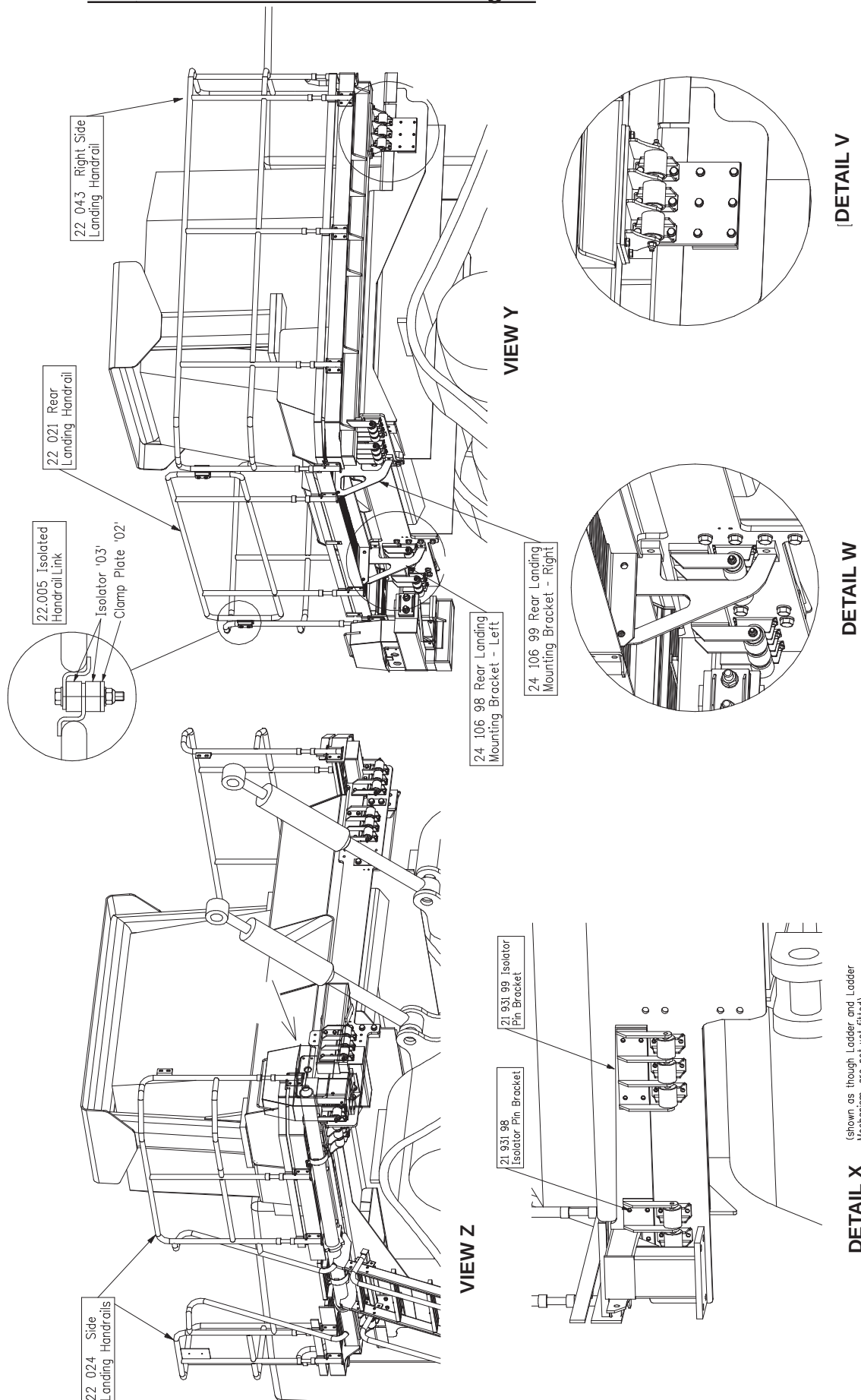


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Section 1 Installation Instruction Drawings - 24 116



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Caterpillar D9T Dozer



Section 1 Installation Instruction Drawings - 24 117

Procedure

See Drawing **24 117** (Page 9)

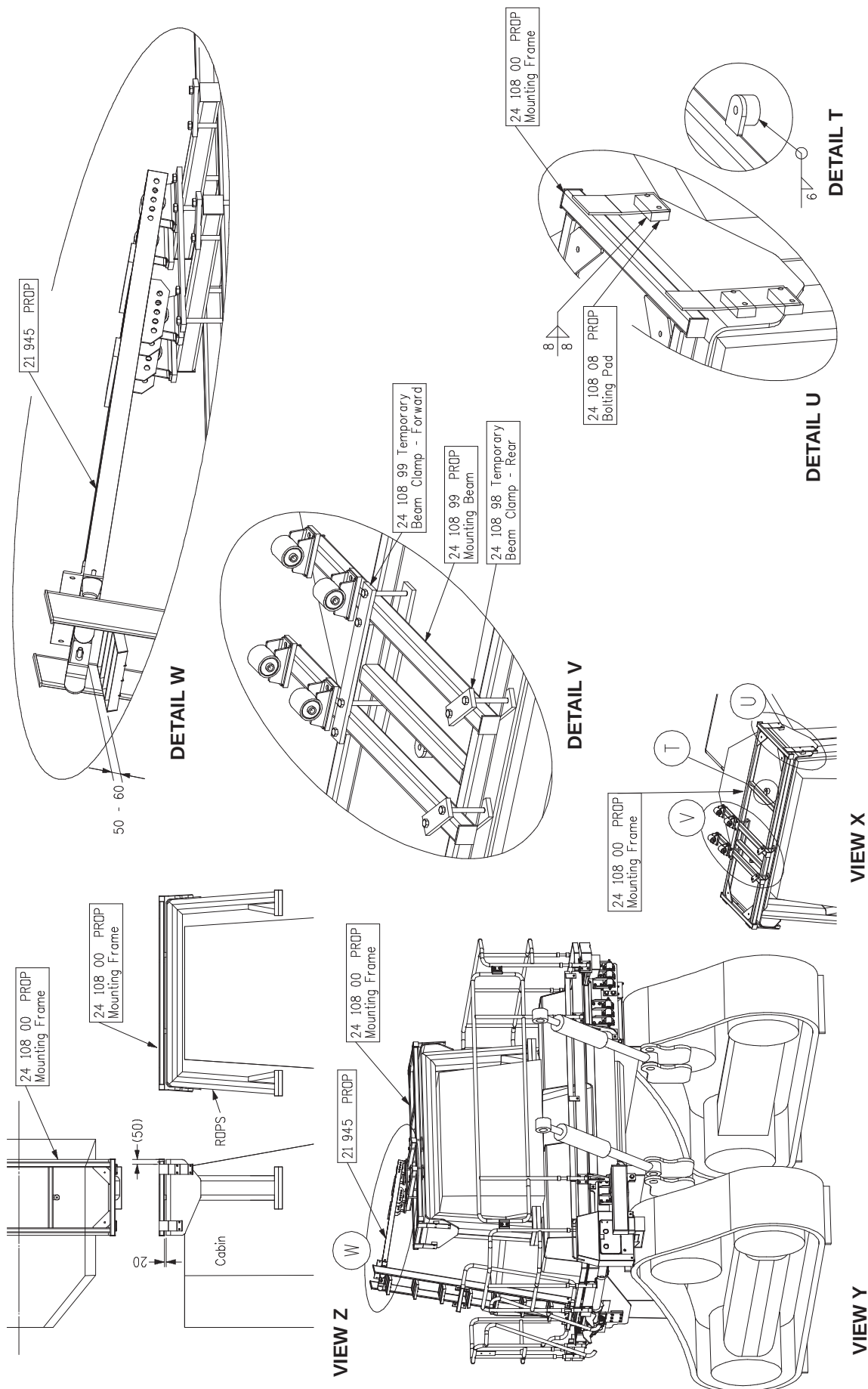
1. Put the PROP Mounting Frame on top of the machine's ROPS, location per **View Z**. Weld the mounting pads to the ROPS' top plate, details per **Details U & T**. Note that existing/OEM light mounting pads might be used instead of the rear pads shown on this drg. if in suitable positions. Upgrade the welds if the OEM pads are used.
2. Fit 24 108 99 PROP Mounting Beams to the PROP Mounting Frame using Temporary Clamps per **Detail V**.
3. Fit the PROP 21 945 to the Mounting Beams per **Detail W** using the middle holes of the sets of five. Adjust the position of the PROP and mounting components so the PROP is aligned with the ladder and the ladder is held firmly against the PROP bumpers when in its' fully raised position.
4. Weld the PROP Mounting Beams to the Mounting Frame and remove the temporary clamps. Weld 6cfw across the visible horizontal surfaces.

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Caterpillar D9T Dozer



Section 1 Installation Instruction Drawings - 24 117

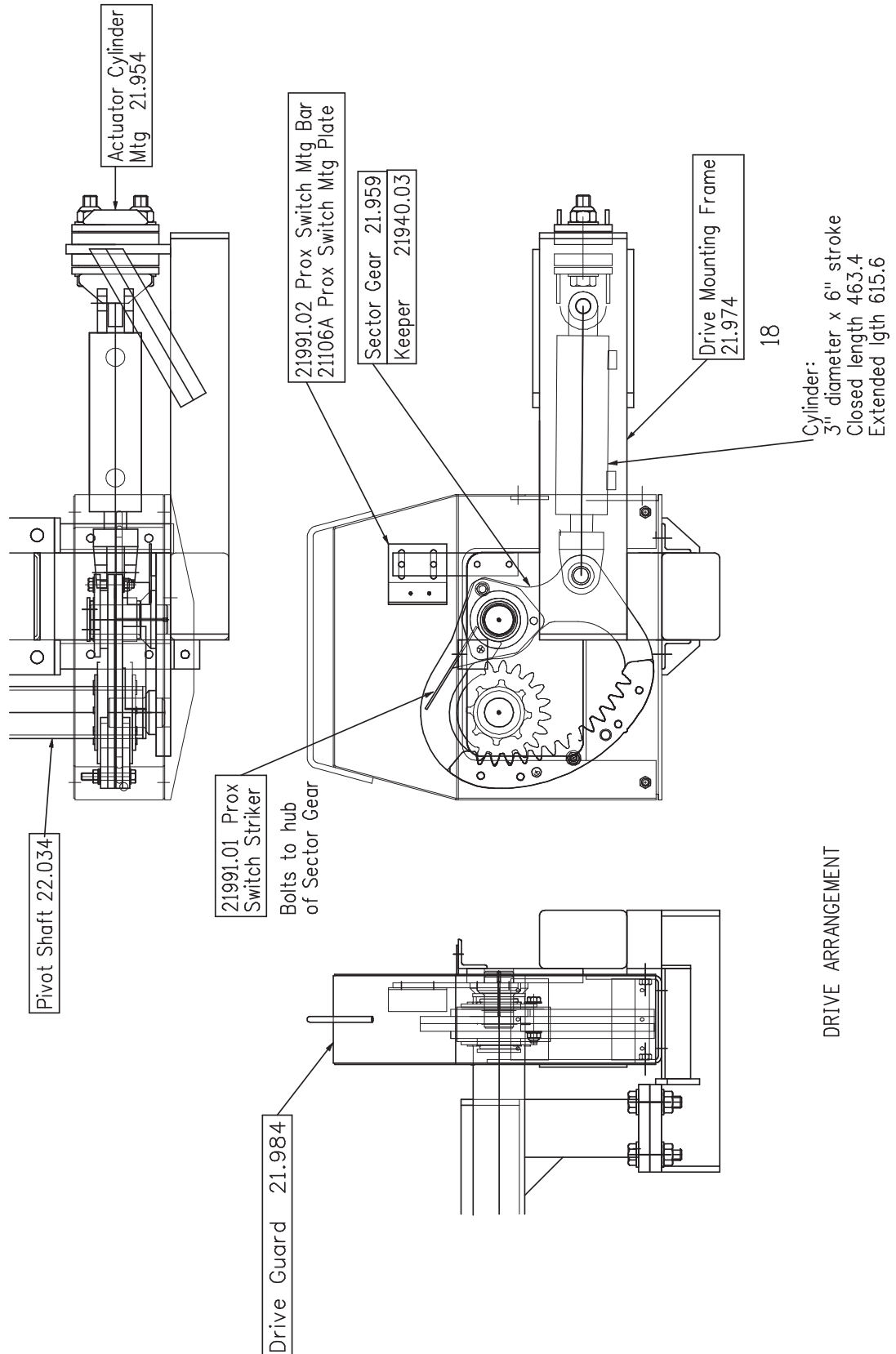


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Section 1 Drive Arrangement - Ref. Dwg. 22 032



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Section 1 Installation and Mounting Instructions (cont.)

Maintenance Notes

NOTE

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

WARNING

Raising the POWER STEP ladder 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 ladder must be used, please follow the following instructions:

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

Raise ladder by available means.

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

Lock in raised position.

Re-tighten hydraulic fittings.

SECURE THE LADDER 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 ladder 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 valve to restriction fitting.

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).

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Caterpillar D9T Dozer



Section 2 Recommended Maintenance Procedure

Daily

Visually check ladder 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 the nipples on the rotation shaft and sector gears.

Check main mounting bolts for torque.

Check hydraulic oil level in power pack and top up as necessary. (Ladder 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.

Grease 4 grease nipples on rotation shaft and sector gears, all of these are accessible with the ladder lowered, and accessed from under the ladder.

Check and inspect all main bolts on ladder system.
Retorque if required.

Repeat daily check as above

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Caterpillar D9T Dozer



Section 3 Operating Procedure

To Lower Ladder (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 ladder may touch the ground before the ladder is in the fully lowered position.

Should this occur, descend the ladder with caution.

To Raise Ladder

Ascend the ladder onto the landing of the truck.

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].

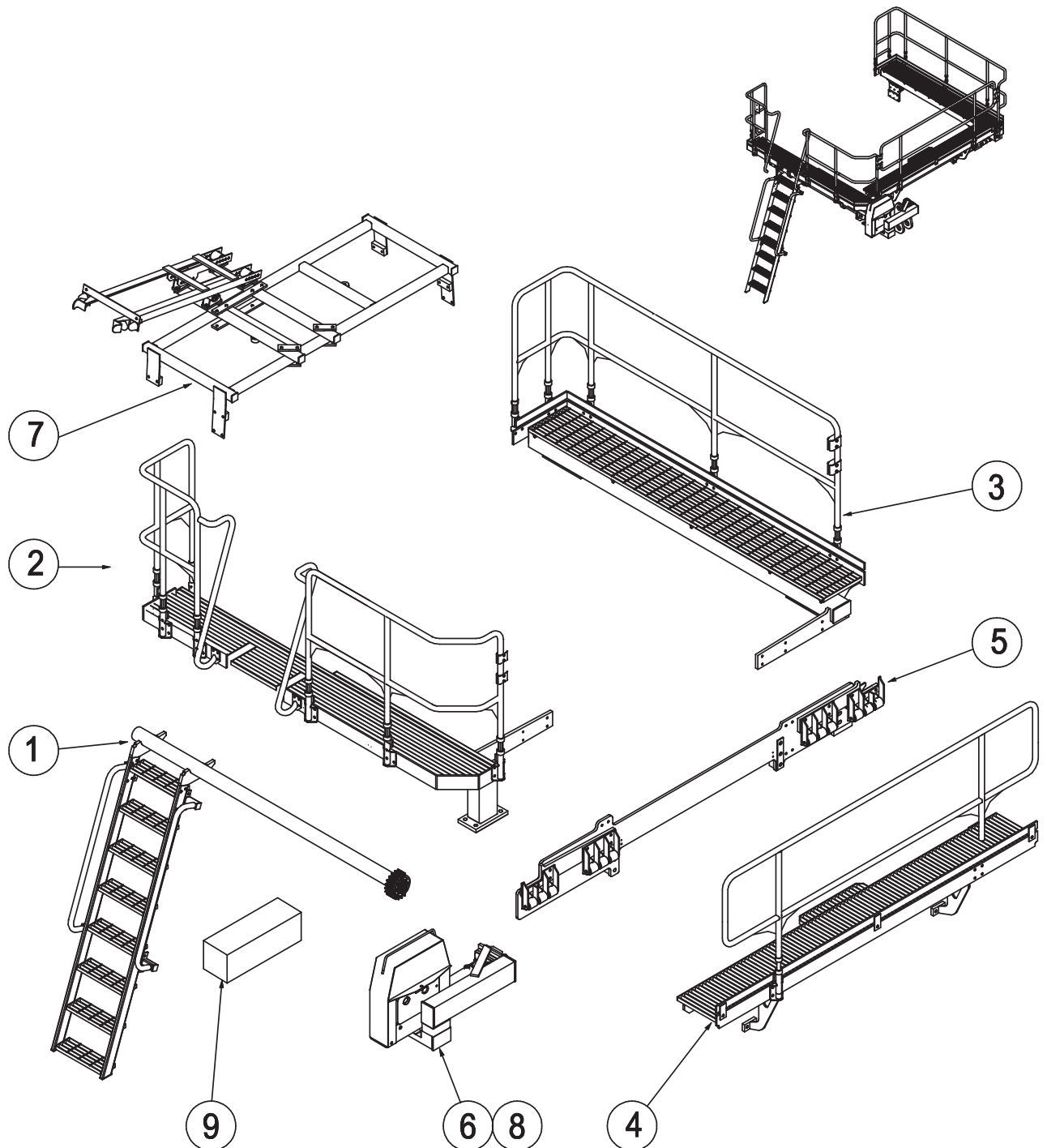
Test by raising and lowering the Power Step a couple of times and adjust again if necessary.

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Section 4 Assembly Complete

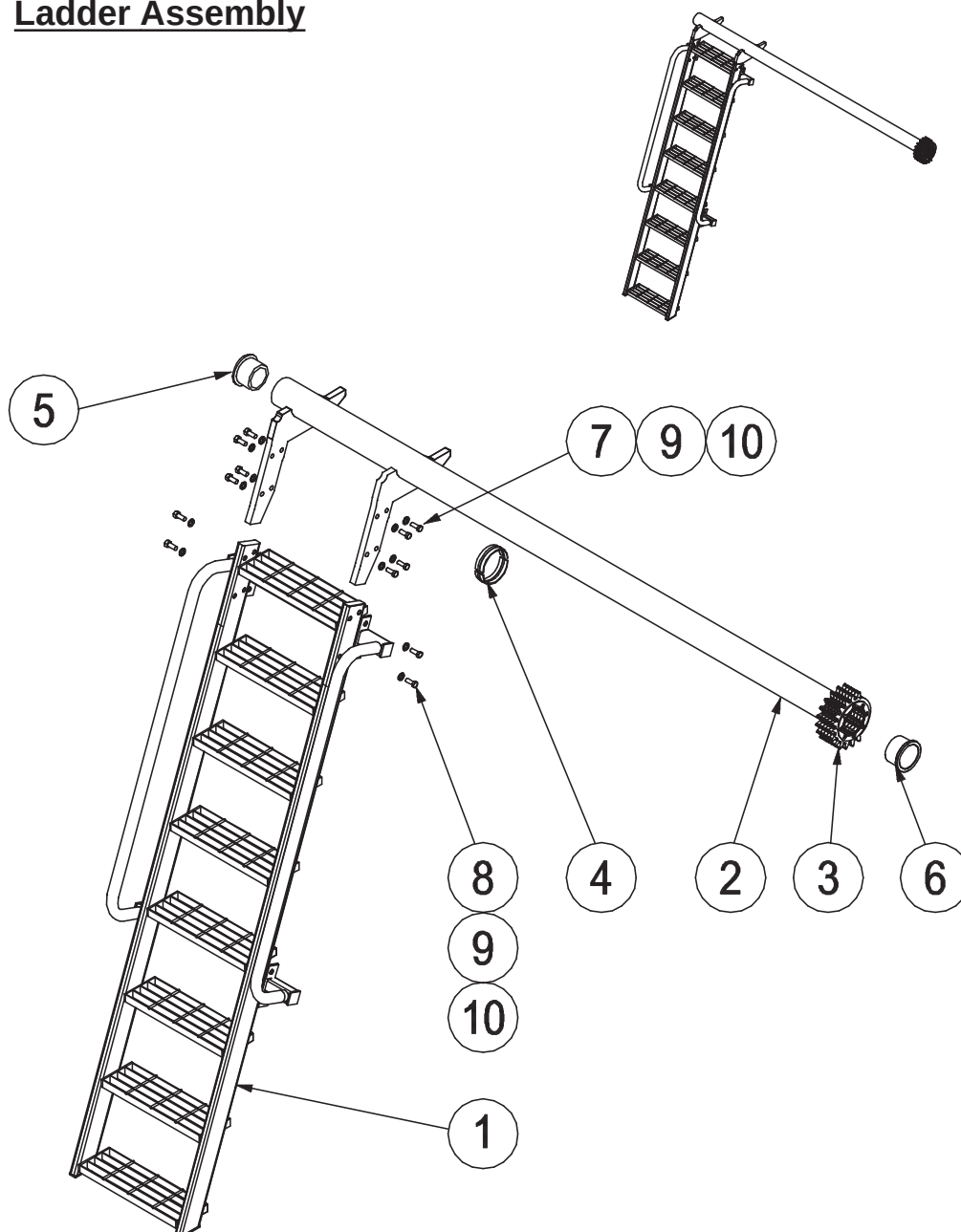


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Section 4-1 Ladder Assembly



Item	Part No.	Part Name	Qty		
1	PS-22025	LADDER & HANDRAIL FABRICATION	1		
2	PS-22034	ROTATION SHAFT	1		
3	PS-21958	PINION ASSEMBLY	1		
4	PS-21926-01	LADDER SHAFT PIVOT BUSH-MIDDLE	1		
5	PS-21926-02	LADDER SHAFT PIVOT BUSH-NON DRIVE END	1		
6	PS-21926-03	LADDER SHAFT PIVOT BUSH- DRIVE END	1		
7	CPS-M12X45	BOLT-M12 x 45	8		
8	CPS-M12X30	BOLT-M12 x 30	8		
9	CPS-M12NZIP	NUT-M12	16		
10	CPS-M12WH	WASHER-M12	32		

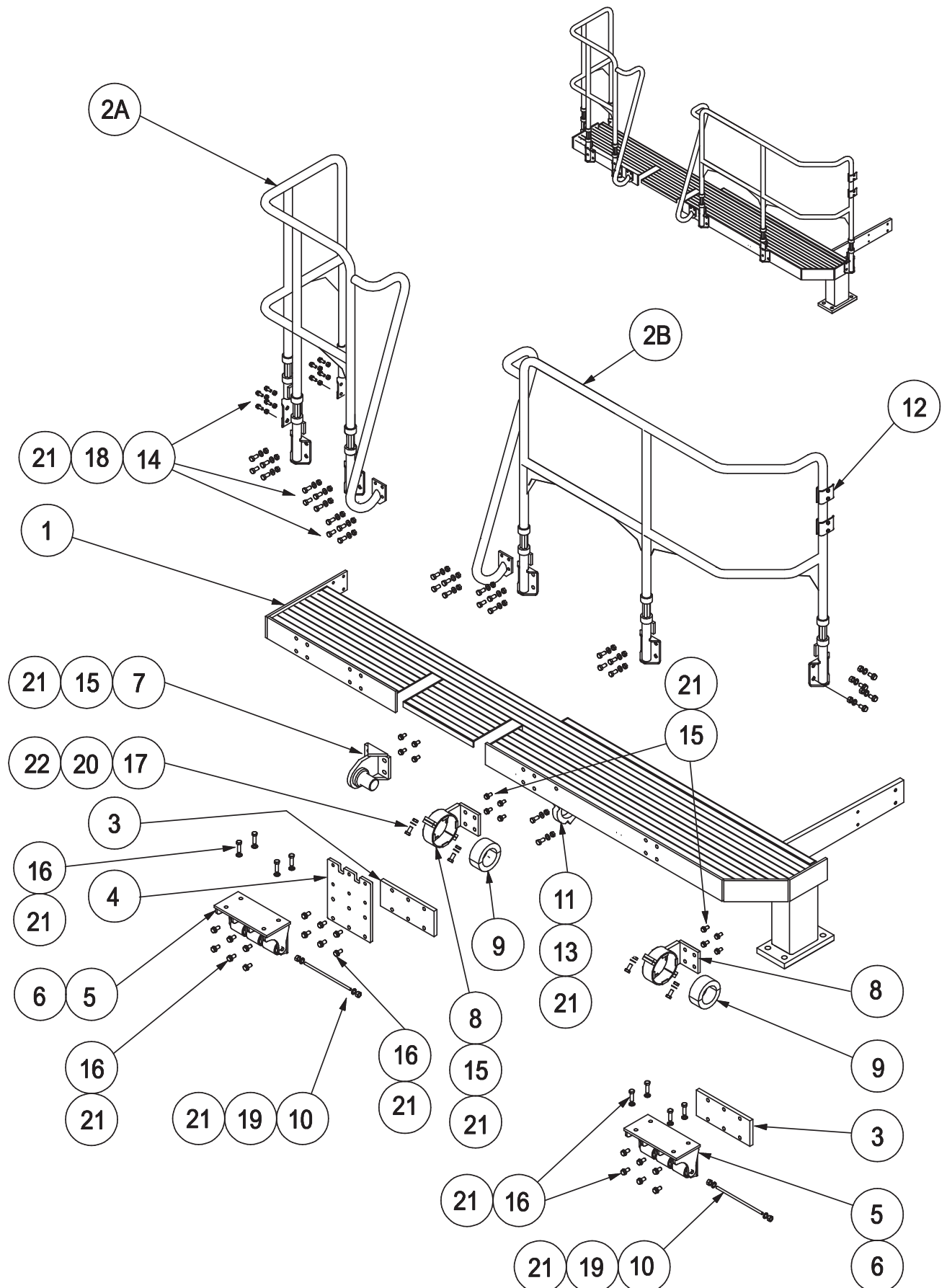
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Section 4-2 Landing Assembly LHS

PS-24107A



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Section 4-2 Landing Assembly LHS

PS-24107A

See Drawing Page 16

Item	Part No.	Part Name	Qty		
1	PS-24107	LEFT SIDE PLATFORM	1		
2A	PS-22024A	HANDRAIL-FRONT LHS	1		
2B	PS-22024B	HANDRAIL-REAR LHS	1		
3	PS-24111-01	SIDE BOLTING PAD	2		
4	PS-24111-02	SIDE FRONT ISOLATOR RISER	1		
5	PS-24112	SIDE ISOLATOR FINGER SET	2		
6	PS-21930A	ISOLATOR MOUNTINGS	6		
7	PS-21976	FRONT PIVOT PIN BRACKET	1		
8	PS-21941A	ANTI VIBRATION BEARING	2		
9	PS-21941-06	RUBBER BUSH	2		
10	PS-21933	ISOLATOR BUSH PIN	2		
11	PS-21925	MIDDLE BEARING MOUNTING	1		
12	PS-HRI-A06	HANDRAIL POST-DOUBLE CLAMP ASSY	2		
13	CPS-M12X65ZP	BOLT-SOCKET HEAD-M12 x 65	2		
14	CPS-M12X35ZP	BOLT-M12 x 35	36		
15	CPS-M12X30ZP	BOLT-M12 x 30	12		
16	CPS-M12X25ZP	BOLT-M12 x 25	26		
17	CPS-M8X35ZP	BOLT-M8 x 35	8		
18	CPS-M12NZP	NUT-M12	36		
19	CPS-1/2"NN	NUT-NYLOC-1/2"UNC	4		
20	CPS-M8NN	NUT-NYLOC-M8	8		
21	CPS-M12WH	WASHER-HARDENED-M12	96		
22	CPS-M8WH	WASHER-HARDENED-M8	16		

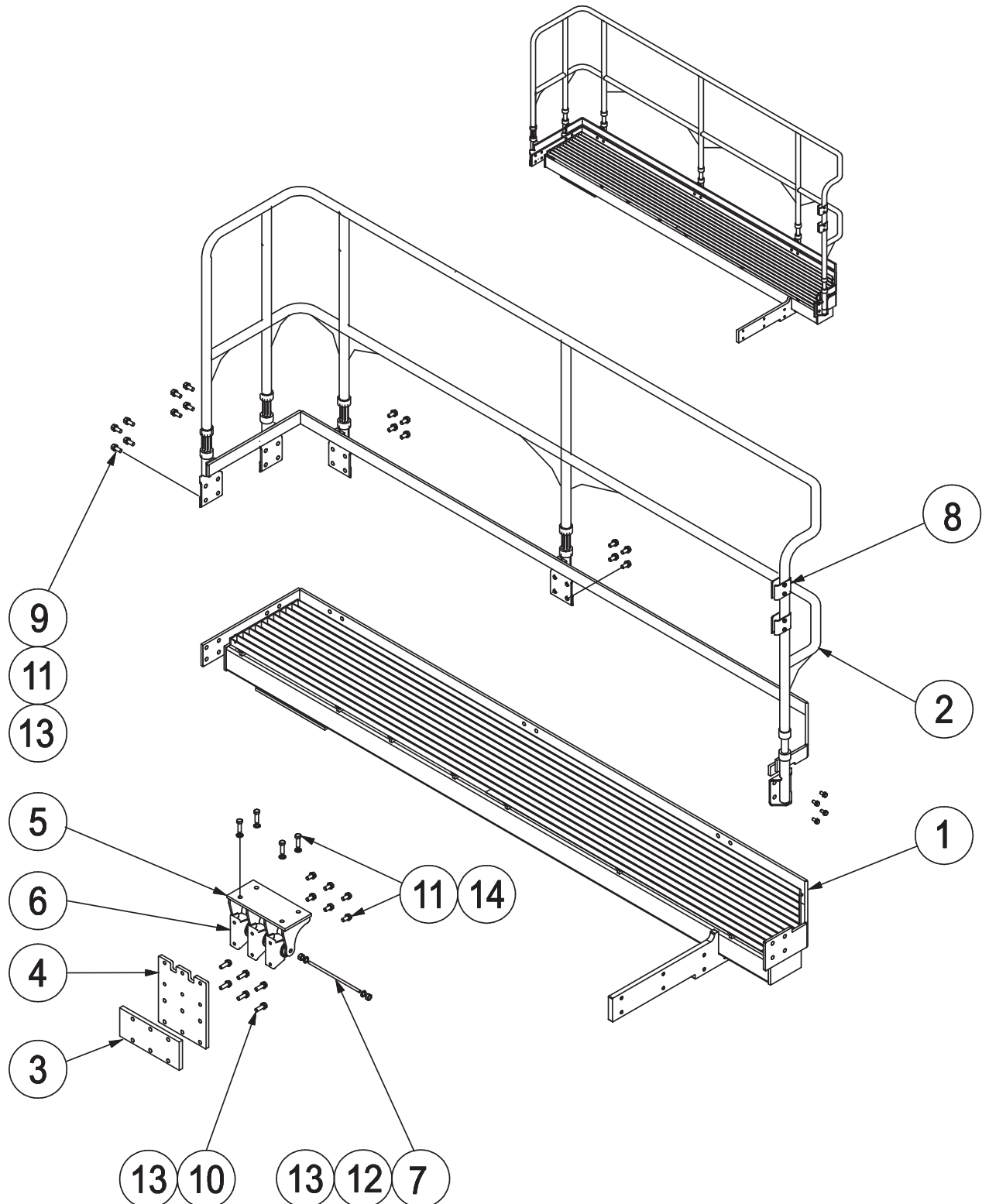
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Section 4-3 Landing Assembly RHS

PS-24109A



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Caterpillar D9T Dozer



Section 4-3 Landing Assembly RHS

PS-24109A

See Drawing Page 18

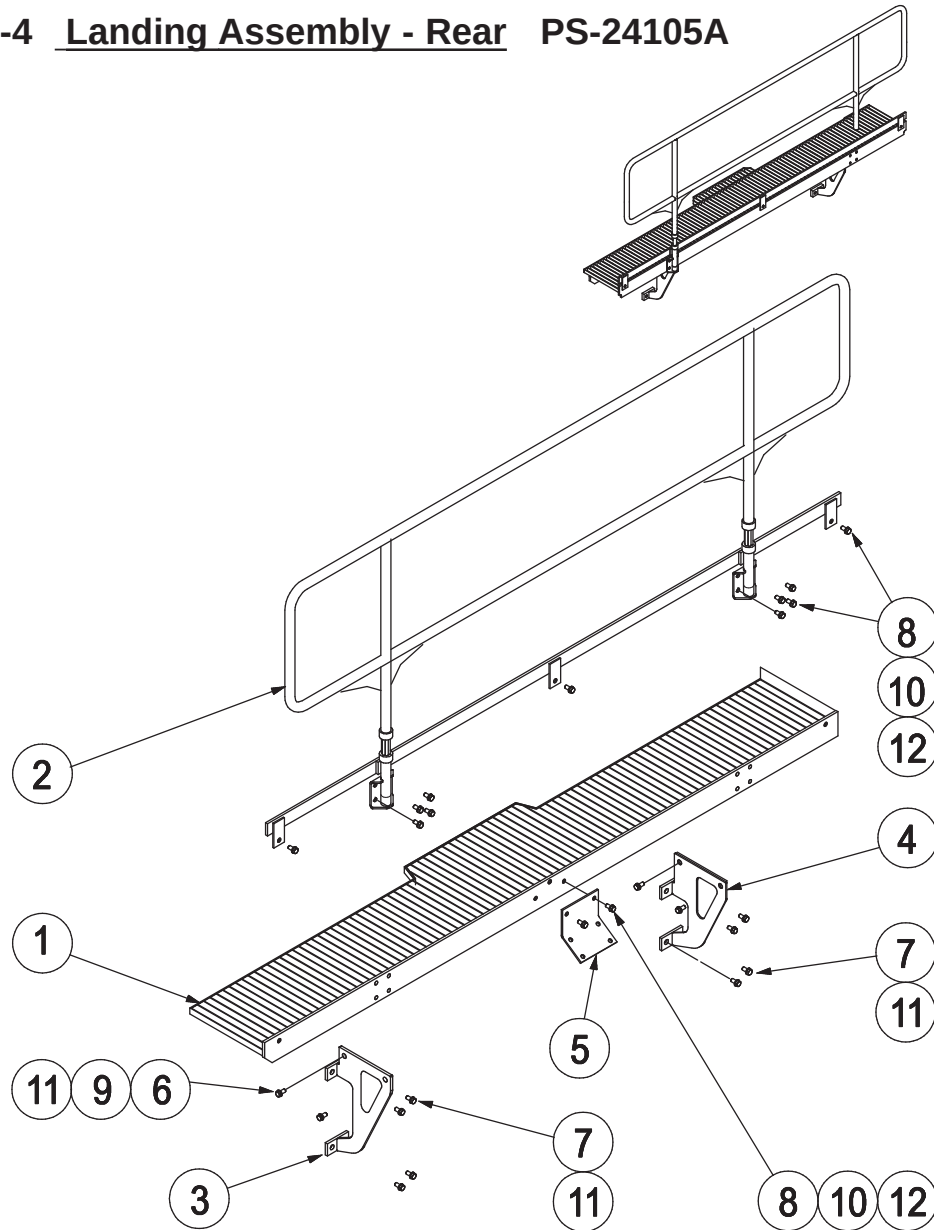
Item	Part No.	Part Name	Qty		
1	PS-24109	PLATFORM	1		
2	PS-22043	HANDRAIL-RHS	1		
3	PS-24111-01	SIDE BOLTING PAD	1		
4	PS-24111-02	SIDE FRONT ISOLATOR RISER	1		
5	PS-24112	SIDE ISOLATOR FINGER	1		
6	PS-21930A	ISOLATOR MOUNTINGS	3		
7	PS-21933	ISOLATOR BUSH PIN	1		
8	PS-HRI-A06	HANDRAIL POST CLAMP ASSY.	2		
9	CPS-M12X35ZP	BOLT-M12 x 35	20		
10	CPS-M12X25ZP	BOLT-M12 x 25	16		
11	CPS-M12NZP	NUT-M12	20		
12	CPS-1/2"NN	NUT-NYLOC-1/2"UNC	4		
13	CPS-M12WH	WASHER-HARDENED-M12	58		

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Section 4-4 Landing Assembly - Rear PS-24105A



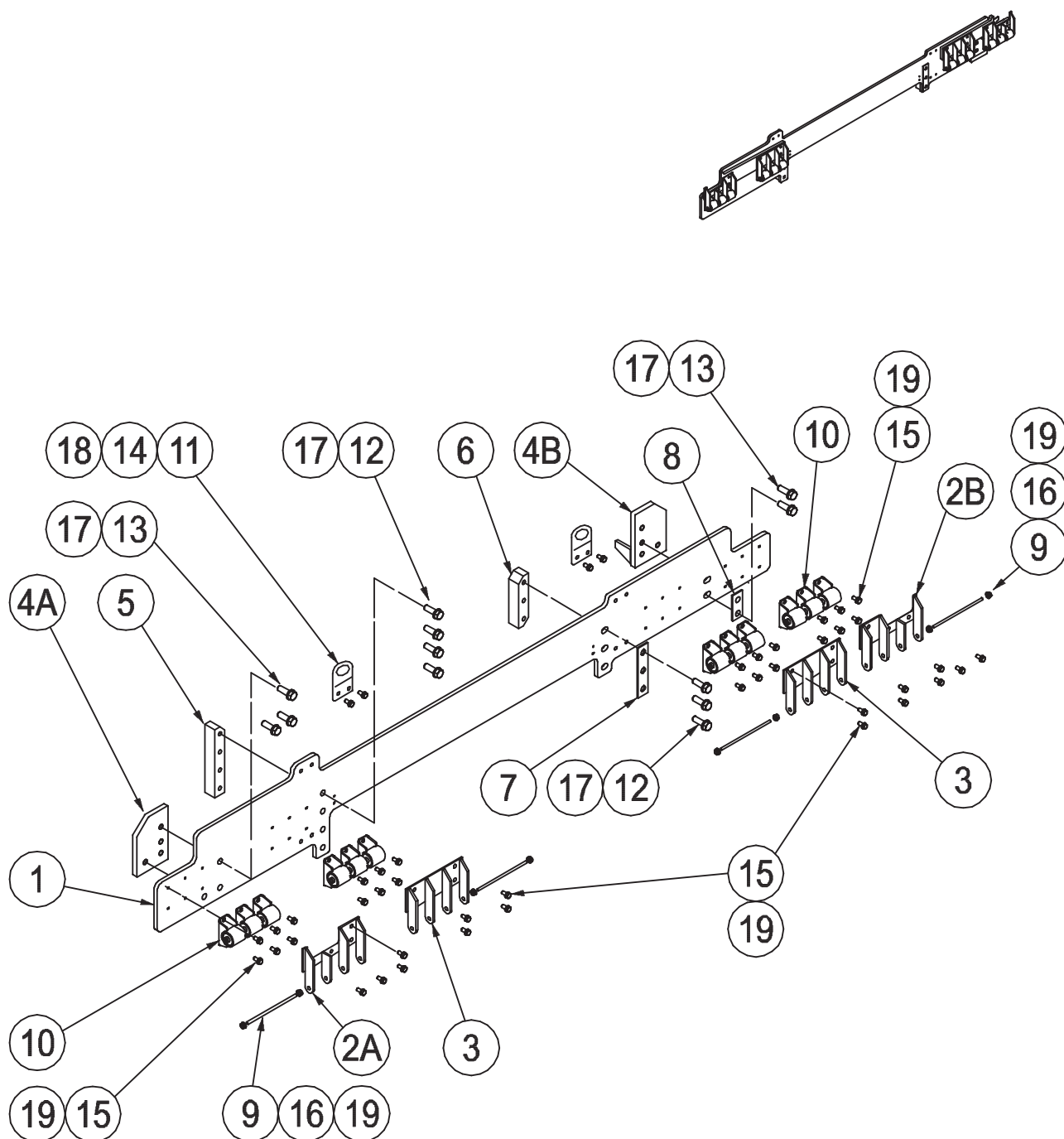
Item	Part No.	Part Name	Qty		
1	PS-24105	LANDING-REAR	1		
2	PS-22021	HANDRAILS-REAR	1		
3	PS-24106-98	MOUNTING BRACKET-LHS	1		
4	PS-24106-99	MOUNTING BRACKET-RHS	1		
5	PS-21990	RIPPER LIGHT BRACKET	1		
6	CPS-M16X45ZP	BOLT-M16 x 45	4		
7	CPS-M16X35ZP	BOLT-M16 x 35	8		
8	CPS-M12X35ZP	BOLT-M12 x 35	13		
9	CPS-M16NZP	NUT-M16	4		
10	CPS-M12NZP	NUT-M12	13		
11	CPS-M16WH	WASHER-HARDENED-M16	16		
12	CPS-M12WH	WASHER-HARDENED-M12	23		

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Section 4-5 Spreader Assembly



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Caterpillar D9T Dozer



Section 4-5 Spreader Assembly

See Drawing Page 21

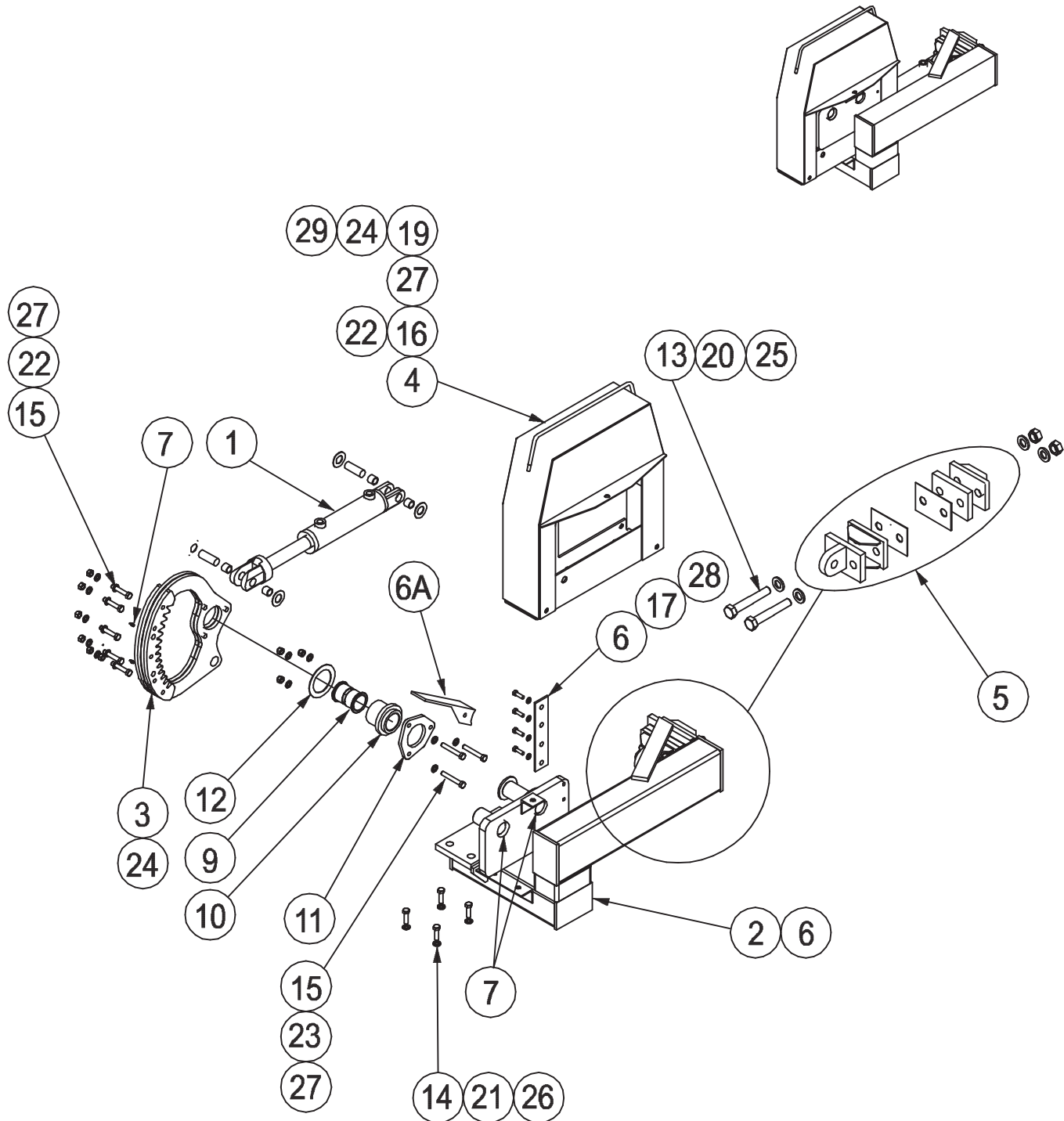
Item	Part No.	Part Name	Qty		
1	PS-22041	SPREADER	1		
2A	PS-21931 98	ISOLATOR PIN BRACKET-OUTER LEFT	1		
2B	PS-21931 97	ISOLATOR PIN BRACKET-OUTER RIGHT	1		
3	PS-21931 99	ISOLATOR PIN BRACKET-INNER	2		
4A	PS-24110-05L	BOLTING PAD-OUTER-LEFT	1		
4B	PS-24110-05R	BOLTING PAD-OUTER-RIGHT	1		
5	PS-24110-01	BOLTING PAD-INNER-LEFT	1		
6	PS-24110-02	BOLTING PAD-INNER-RIGHT	1		
7	PS-24110-04	WASHER PLATES-RIGHT-INNER	1		
8	PS-24110-03	WASHER PLATES-RIGHT-OUTER	1		
9	PS-21933	ISOLATOR BUSH PIN	4		
10	PS-21930A	ISOLATOR MOUNTING	12		
11	PS-24113	LIFTING LUG (Installation only)	2		
12	PS-M20X40ZP	BOLT-M20 x 40	7		
13	PS-M20X30ZP	BOLT-M20 x 30	5		
14	CPS-M16X25ZP	BOLT-M16 x 25	4,		
15	CPS-M12X25ZP	BOLT-M12 x 25	40		
16	CPS-1/2"NN	NUT-NYLOC-1/2" UNC	8		
17	PS-M20WH	WASHER-HARDENED-M20	12		
18	CPS-M16WH	WASHER-HARDENED-M16	4		
19	CPS-M12WH	WASHER-HARDENED-M12	48		

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Section 4-6 Drive Unit Assembly



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Caterpillar D9T Dozer



Section 4-6 Drive Unit Assembly

See Drawing Page 23

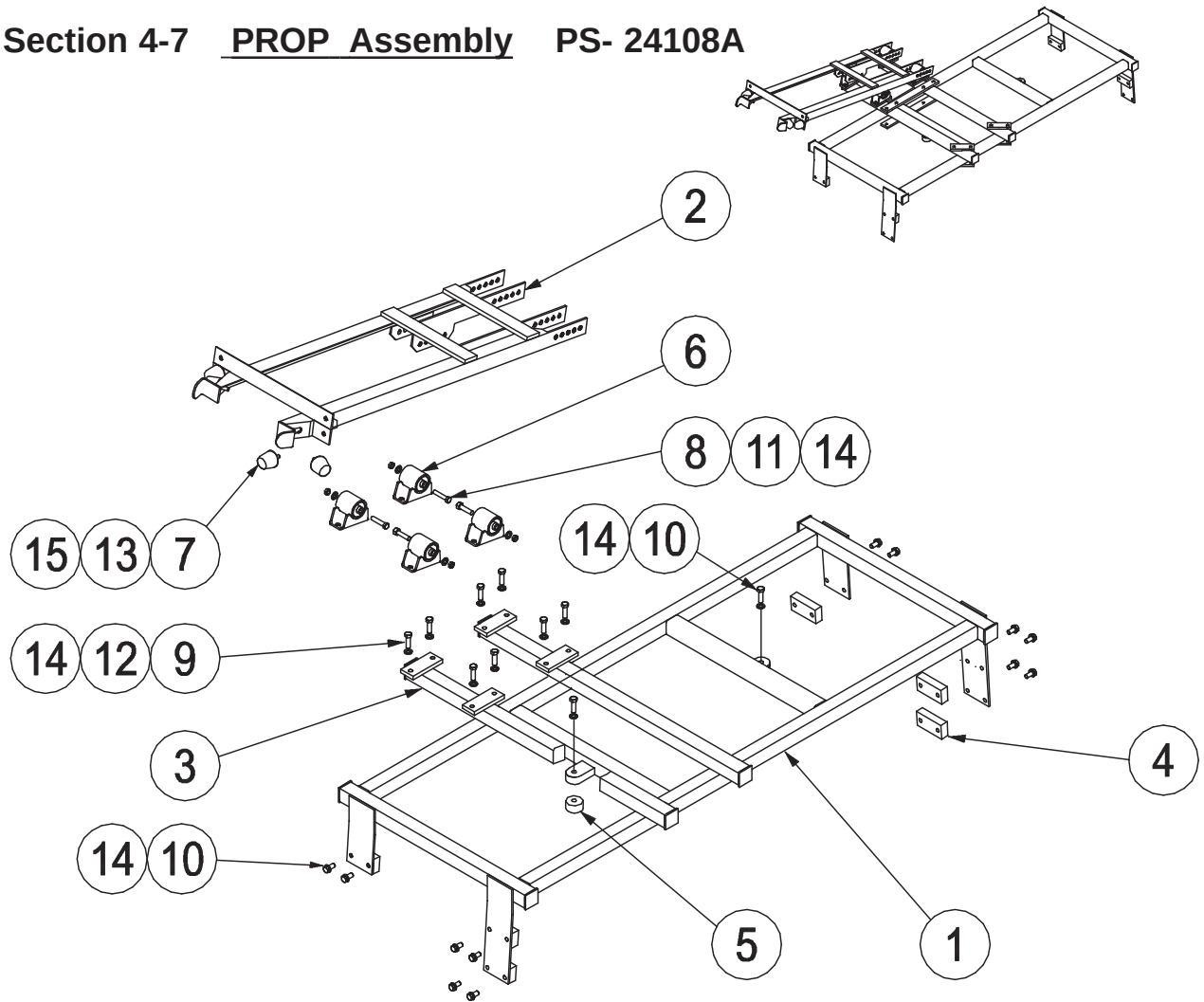
Item	Part No.	Part Name	Qty		
1	PS-63014	HYDRAULIC CYLINDER (Refer Page 22)	1		
2	PS-21974	DRIVE MOUNTING FRAME	1		
3	PS-21959	SECTOR GEAR	1		
4	PS-21984	DRIVE GUARD	1		
5	PS-21954	ACTUATOR CYL. MOUNTING ASSEMBLY	1		
6	PS-21991-02	MOUNTING BAR-PROXIMITY SWITCH	1		
6A	PS-21991-01	STRIKER	1		
7	PS-61006-2	GREASE NIPPLE M6 STR.	4		
8	PS-21940-03	PIVOT PIN KEEPER PLATE	1		
9	PS-21959-09	SECTOR GEAR BUSH	2		
10	PS-21959-08	SECTOR GEAR HUB	1		
11	PS-21959-05	CLAMP RING	1		
12	PS-21959-06	SPACER RING	1		
13	PS-M24X120ZP	BOLT-M24 x 120	2		
14	CPS-M20X65ZP	BOLT-M20 x 65	4		
15	CPS-M12X70ZP	BOLT-M12 x 70	8		
16	CPS-M12X25ZP	BOLT-M12 x 25	10		
17	CPS-M10X30ZP	BOLT-M10 x 30	4		
18	CPS-M10X15ZP	BOLT-M10 x 15	4		
19	CPS-M5X15ZP	BOLT-M5 x 15	6		
20	PS-M24NN	NUT-NYLOC-M24	2		
21	PS-M20NZP	NUT-M20	4		
22	CPS-M12NZP	NUT-M12	14		
23	CPS-M12NN	NUT-NYLOC-M12	3		
24	CPS-M5NN	NUT-NYLOC-M5	6		
25	CPS-M24WH	WASHER-HARDENED-M24	4		
26	CPS-M20WH	WASHER-HARDENED-M20	8		
27	CPS-M12WH	WASHER-HARDENED-M12	20		
28	CPS-M10WH	WASHER-HARDENED-M10	12		
29	CPS-M5WH	WASHER-HARDENED-M5	12		

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Section 4-7 PROP Assembly PS- 24108A



Item	Part No.	Part Name	Qty		
1	PS-24108-00	PROP MOUNTING FRAME	1		
2	PS-21945	PROP	1		
3	PS-24108-99	PROP MOUNTING BEAM	2		
4	PS-24108-08	PROP BOLTING PAD	6		
5	PS-24-108-10	ROOF BUTTON	2		
6	PS-21930A	ISOLATOR MOUNTING	4		
7	PS-40003	BUFFER	4		
8	CPS-M12X120ZP	BOLT-M12 x 120	4		
9	CPS-M12X40ZP	BOLT-M12 x 40	8		
10	CPS-M12X30ZP	BOLT-M12 x 30	14		
11	CPS-M12NN	NUT-NYLOC-M12	4		
12	CPS-M12ZP	NUT-M12	8		
13	CPS-M10ZP	NUT-M10	4		
14	CPSM12WH	WASHER-HARDENED-M12	38		
15	CPSM12WH	WASHER-HARDENED-M10	4		

NOTE: Temporary Beam Clamps are supplied to help with positioning of the PROP prior to welding

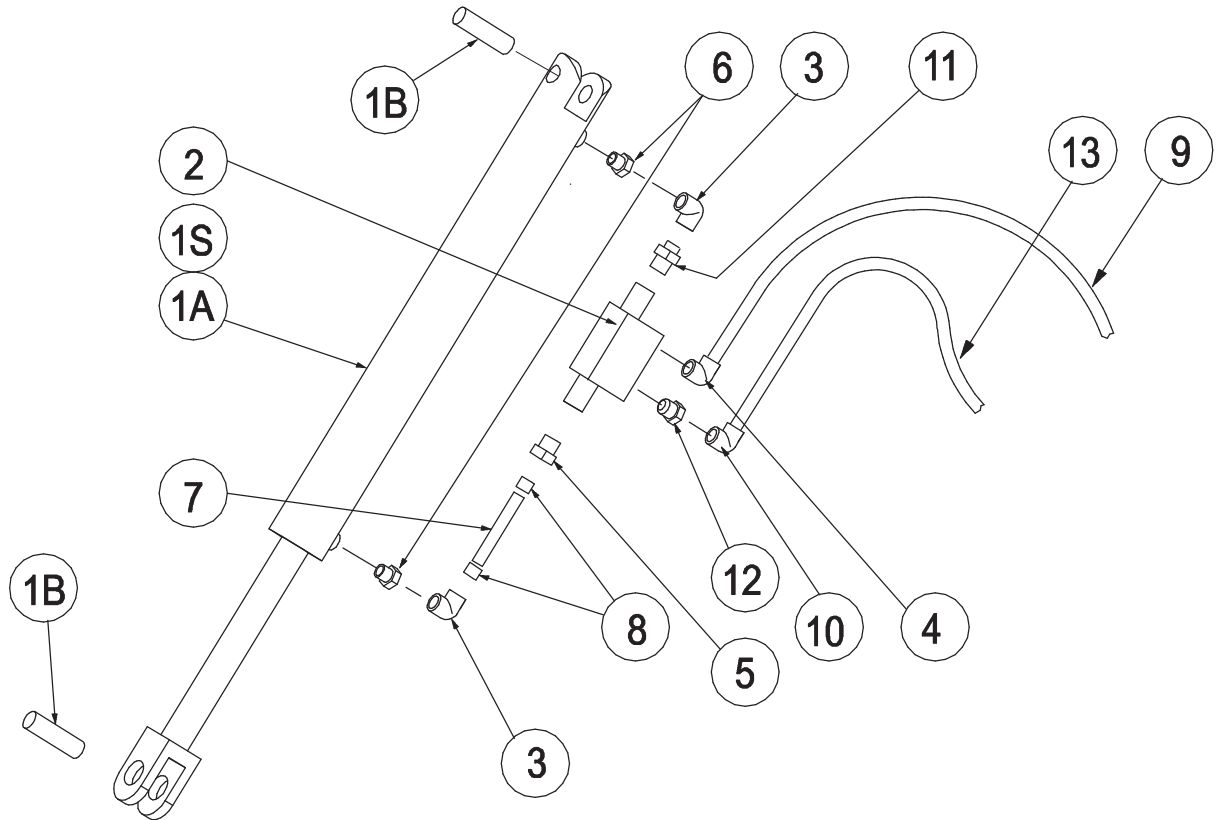
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Section 4-8 Hydraulic Cylinder PS-63014-AH

Incl. Items 1A,1B,2,3,4,5,6,7,8,9,11,12,13.



Item	Part No.	Part Name	Qty		
1A	PS-63014A	HYDRAULIC CYLINDER	1		
1B	PS-63014-P	PIN - CYLINDER- (WITH RETAINER)	2		
1S	PS-63011K	SEAL KIT (NOT SHOWN)	1		
2	PS-63201	VALVE - PILOT OPERATED LOCKING	1		
3	PS-61158-0.30	FITTING - RESTRICTION 90 DEG	2		
4	PS-61154	FITTING - ELBOW- O RING 1/4BSPPx9/16" JIC	1		
5	PS-61157	FITTING - O RING 1/4BSPPx 9/16" JIC	1		
6	PS61163	REDUCER JIC x BSPP	2		
7	PS-61160	TUBE	2		
8	PS-60047	FERRULES/NUTS 2 x each	1		
9	PS-60051-2.8	HOSE- HYDR. (9/6" JIC SWIVEL FITTING 2.8M)	1		
10	PS-61151	FITTING-ELBOW 7/16" JIC	1		
11	PS-61145	FITTING-SWIVEL 9/16" JIC	1		
12	PS-61153	FITTING-O RING 1/4" BSP x 7/16" JIC	1		
13	PS-60050-2.8	HYDR. HOSE 7/16" SWIVEL FITTINGS	1		

FOLDING LADDER

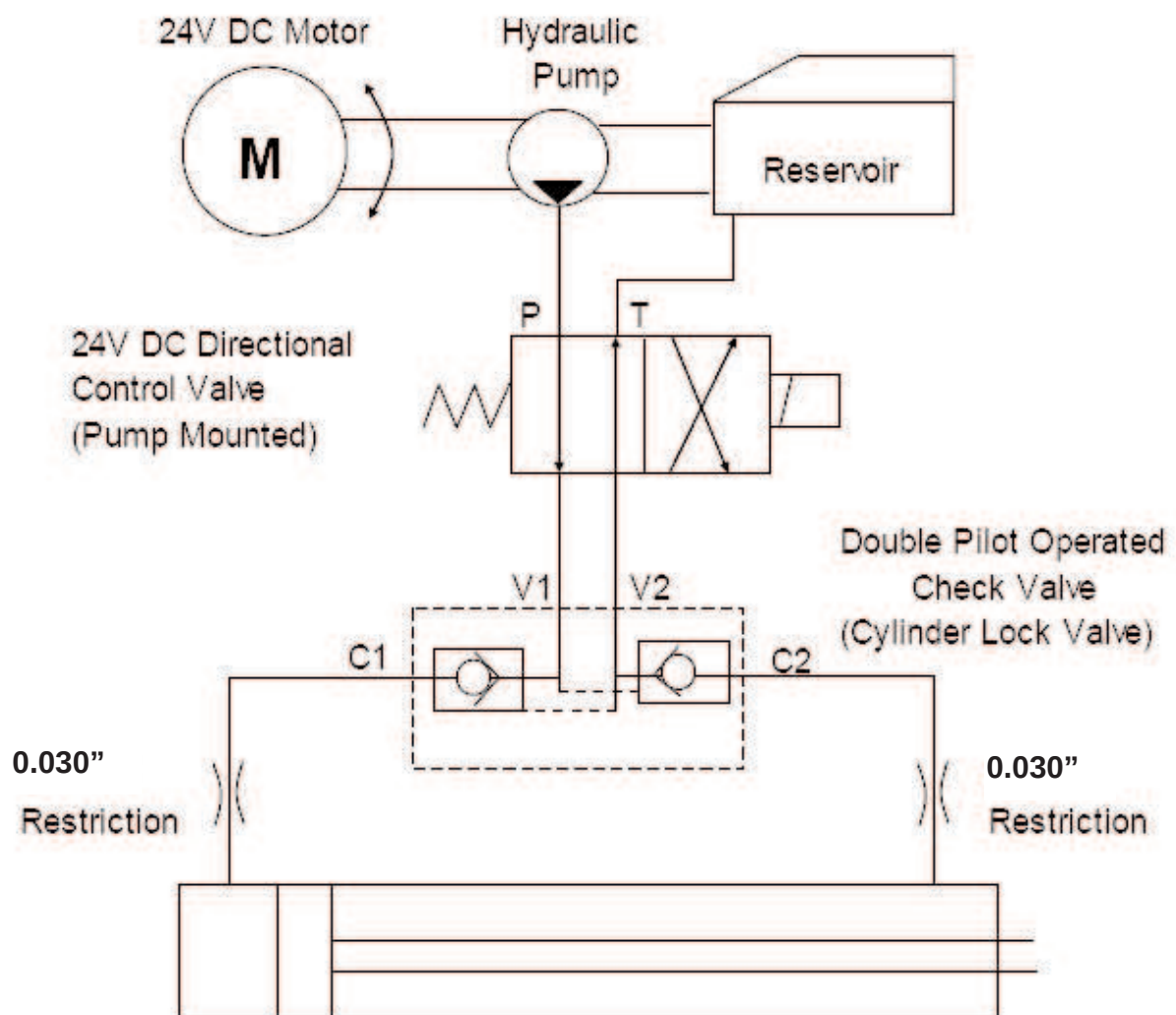
Caterpillar D9T Dozer



Section 4-8 Hydraulic Cylinder (Valve Diagram)

See also Drawing Page 26

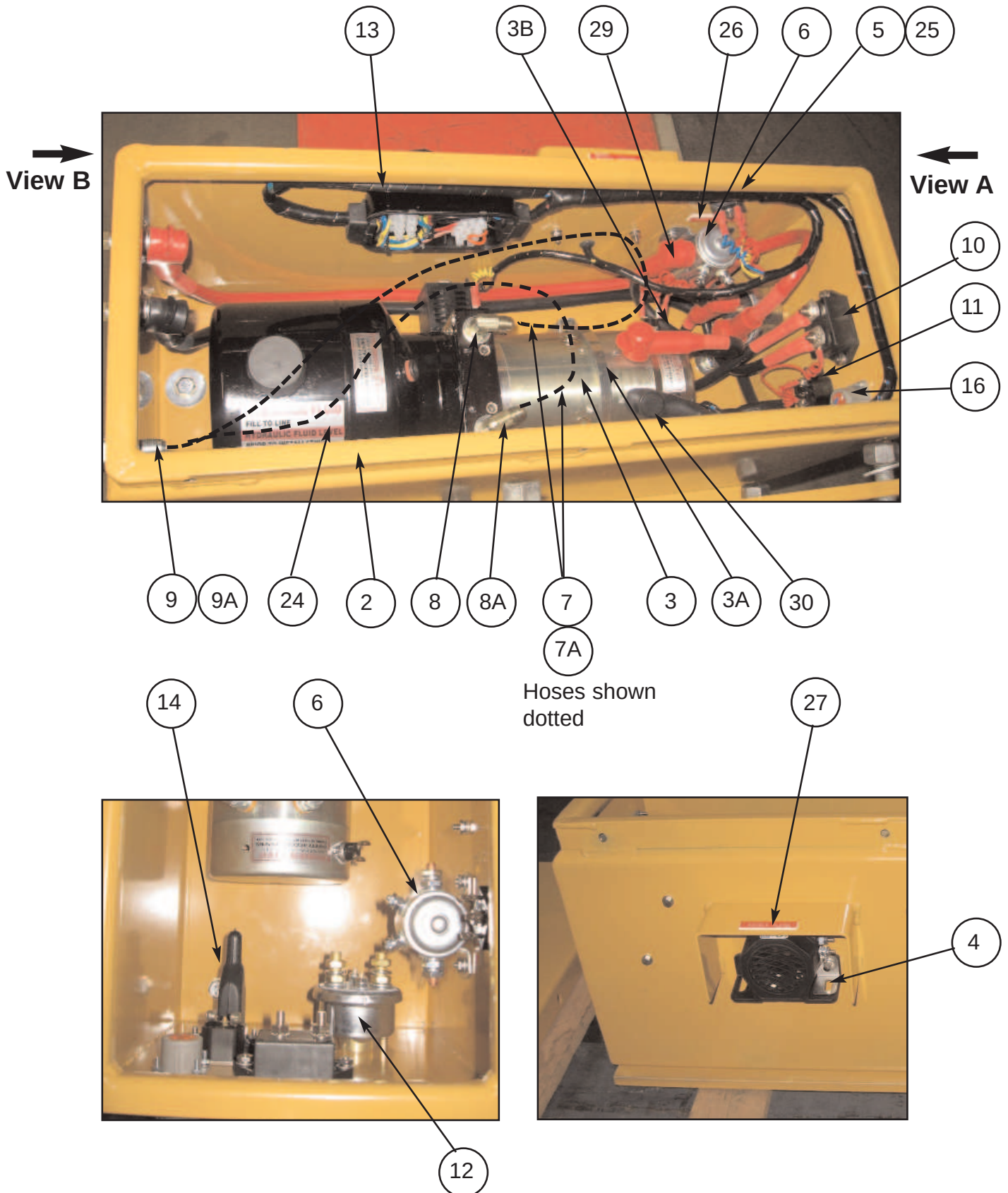
Double Acting Hydraulic System with
directional Control Valve and Cylinder
Lock Valve



FOLDING LADDER Caterpillar D9T Dozer



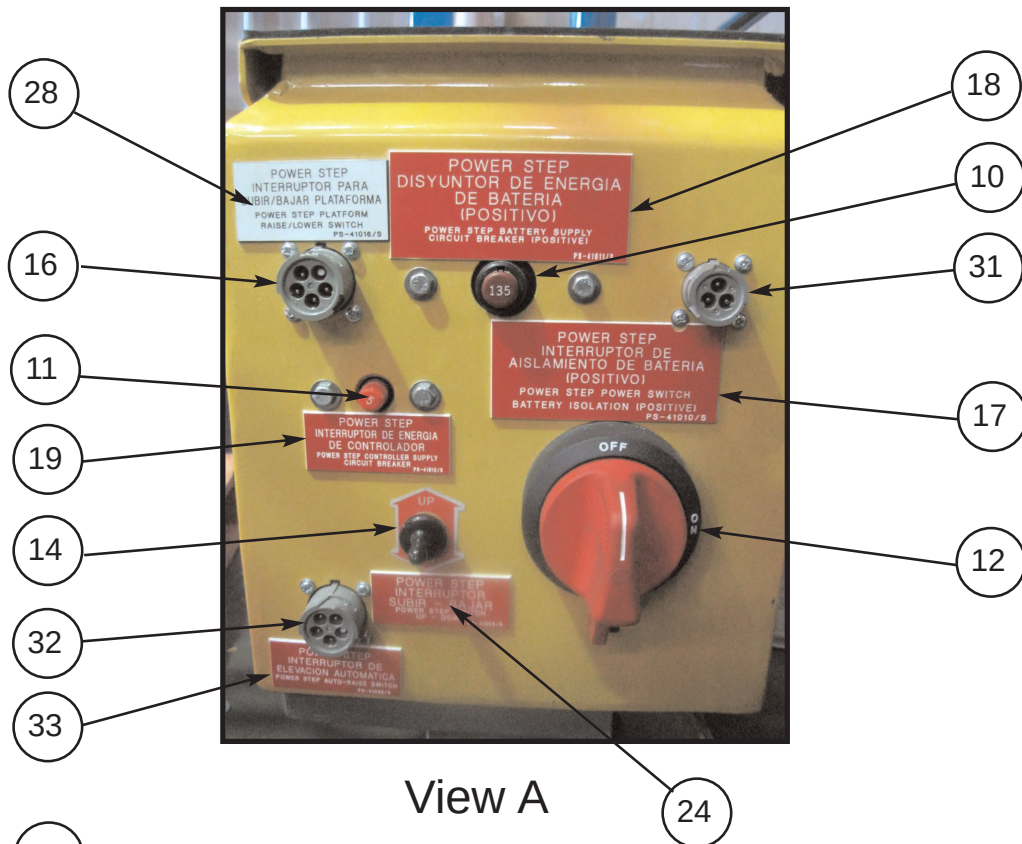
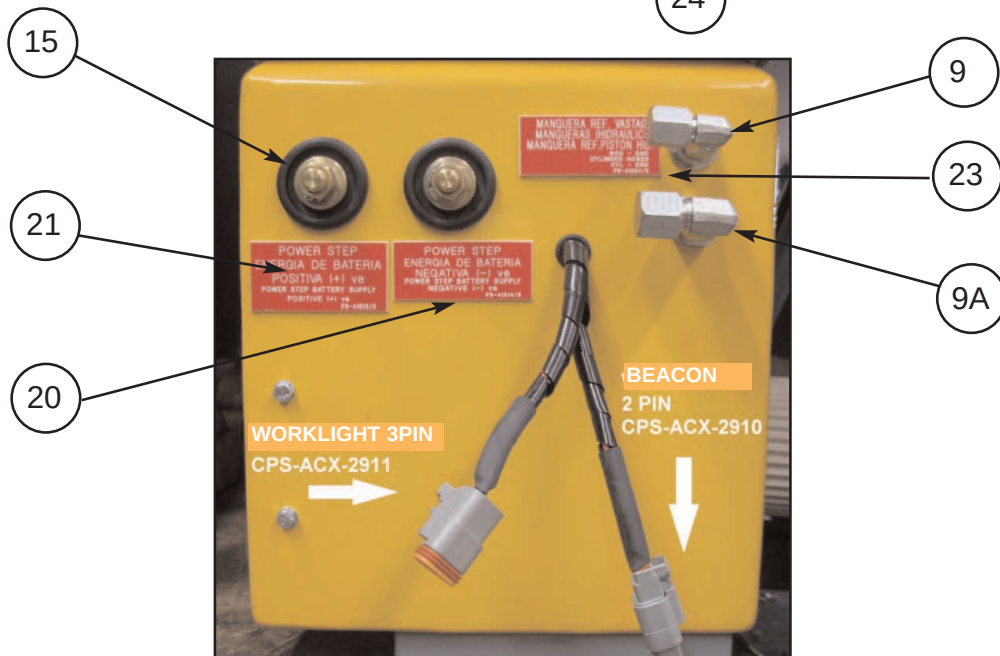
Section 4-9 Power Pack PS-80103A-SLD
See Parts Page 30



FOLDING LADDER Caterpillar D9T Dozer



Section 4-9 Power Pack PS-80103A-SLD See Parts List Pg 30



NOTE.

THE RELIEF PRESSURE OF THE POWERPACK IS TO BE SET TO 2800SI.
IF THE POWERPACK IS REPLACED, THIS RELIEF PRESSURE WILL NEED TO BE
RESET USING INLINE GAUGES.
FAILURE TO DO SO MAY RESULT IN ACCIDENT OR INJURY

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Caterpillar D9T Dozer



Section 4-9 Power Pack PS-80103A-SLD

See Photos Pg 28 & 29

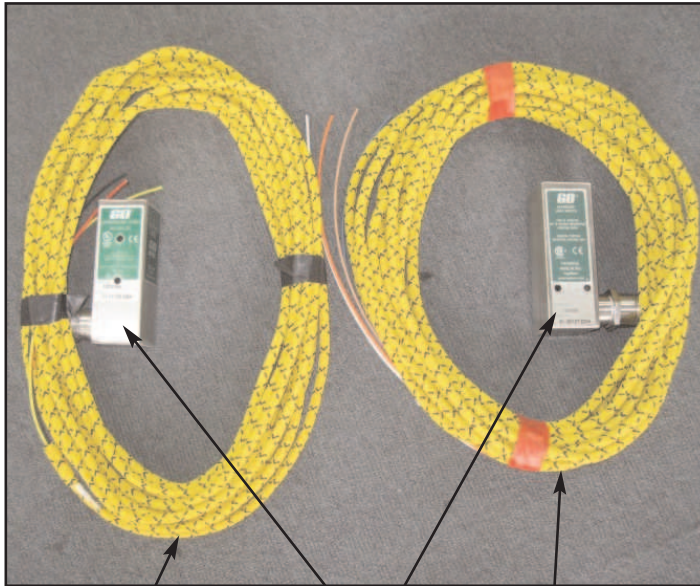
Item	Part No.	Part Name	Qty		
1	PS-80103A-SLD	POWER PACK ASSEMBLY	1		
2	PS-21107-METAL	MOTOR ENCLOSURE- SEALED ST/ST	1		
3	PS-80103A	POWER PACK	1		
3A	PS-80103-CLAMP	CLAMP ELECTRIC MOTOR	1		
3B	PS-84201-100	HEAT SENSOR	1		
4	PS-82415	AUDIBLE ALARM	1		
5	PS-84214	BRIDGE RECTIFIER	1		
6	PS-82492	SOLENOID 24V START MOTOR	1		
7	PS-60051-900MM 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	5A CIRCUIT BREAKER	1		
12	PS-84303	ISOLATION SWITCH	1		
13	PS-1712080	SEALED WIRING BOX	1		
14	PS-73012	TOGGLE SWITCH KIT	1		
15	PS-82493	BATTERY FEED STUDS	2		
16	PS-HD10-5-16P	5 PIN SOCKET	1		
17	PS-41010	DECAL-Battery Isolation	1		
18	PS-41011	DECAL-Battery Supply C/B-135A	1		
19	PS-41012	DECAL-Controller Supply C/B-10A	1		
20	PS-41013	DECAL-Battery Supply-Positive	1		
21	PS-41014	DECAL-Battery Supply-Negative	1		
22	PS-41023	DECAL-Up/Down	1		
23	PS-41024	DECAL HYDRAULIC-HOSES	1		
24	PS-41041	DECAL OIL TANK	1		
25	PS-41019	DECAL BRIDGE RECTIFIER	1		
26	PS-41017	DECAL SOLENOID	1		
27	PS-41018	DECAL ALARM	1		
28	PS-41016	DECAL RAISE/LOWER SWITCH	1		
29	PS-73010	RUBBER BOOT RED	6		
30	PS-73009	RUBBER BOOT BLACK	3		
31	PS-HD10-3-16P	3 PIN SOCKET (PARK BREAK)	1		
32	PS-HD10-5-16P	5 PIN SOCKET (AUTO-RAISE)	1		
33	PS-41032	DECAL AUTO-RAISE SOCKET	1		

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Section 4-10 Electrical Controls

Proximity Switch Assembly Mounted on Fixed Landing

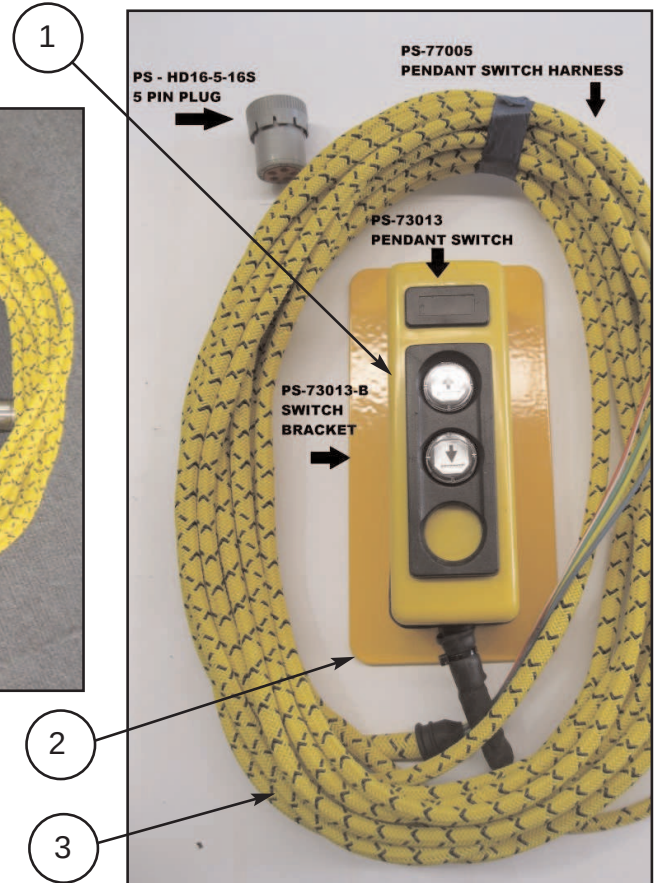


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6

4

Control Pendant Switch Mounted on Handrail



1

2

3

Cab Harness & Equipment Refer Wiring Harness Drawings



7

8

FOLDING LADDER

Caterpillar D9T Dozer



Section 4-10 Electrical Controls

Refer also Wiring Drawings

See Photo Page 32.

Item	Part No.	Part Name	Qty		
1	PS-73013	CONTROL PENDANT SWITCH	1		
2	PS-73013-B	CONTROL PENDANT BRACKET	1		
3	PS-77005	HAND RAIL SWITCH HARNESS	1		
4	PS-77009AR	AUTO RAISE HARNESS	1		Optional only
5	PS-77004	CABIN TO SWITCH HARNESS	1		
6	PS-75430	PROXIMITY SWITCH	2		1 x Optional
7	PS-77002	CABIN BOX LED LIGHT INDICATOR	1		
8	PS-77003	WIRING HARNESS IN CABIN	1		

WARNING

**LOW OR FAULTY BATTERIES WILL VOID
WARRANTY ON THE POWER PACK AND ALL
ELECTRICAL SWITCHES AND COMPONENTS**

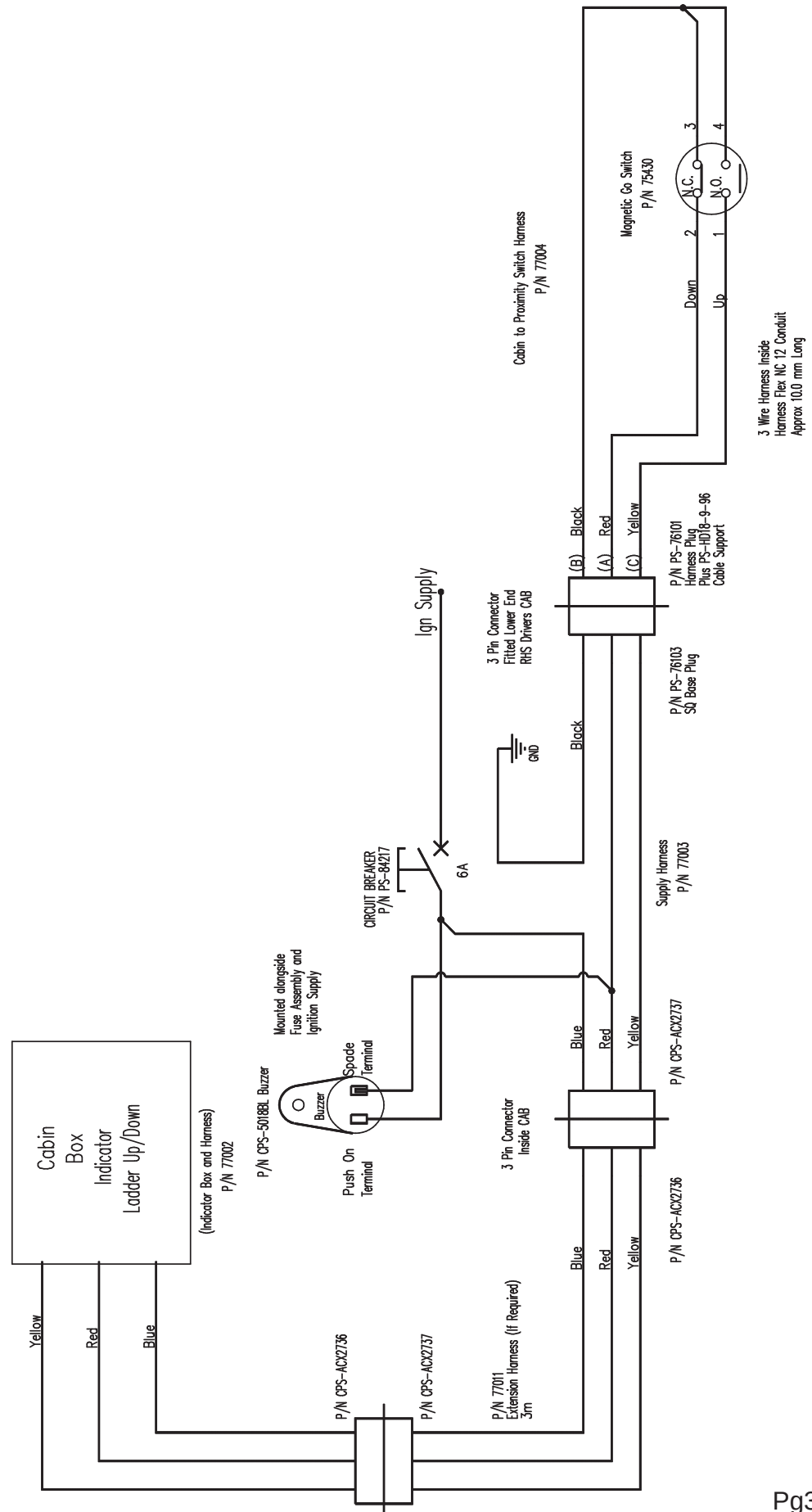
FOLDING LADDER

Caterpillar D9T Dozer



Section 4-10 Electrical System - Wiring Diagrams Page 1

LADDER UP/DOWN



POWER STEP

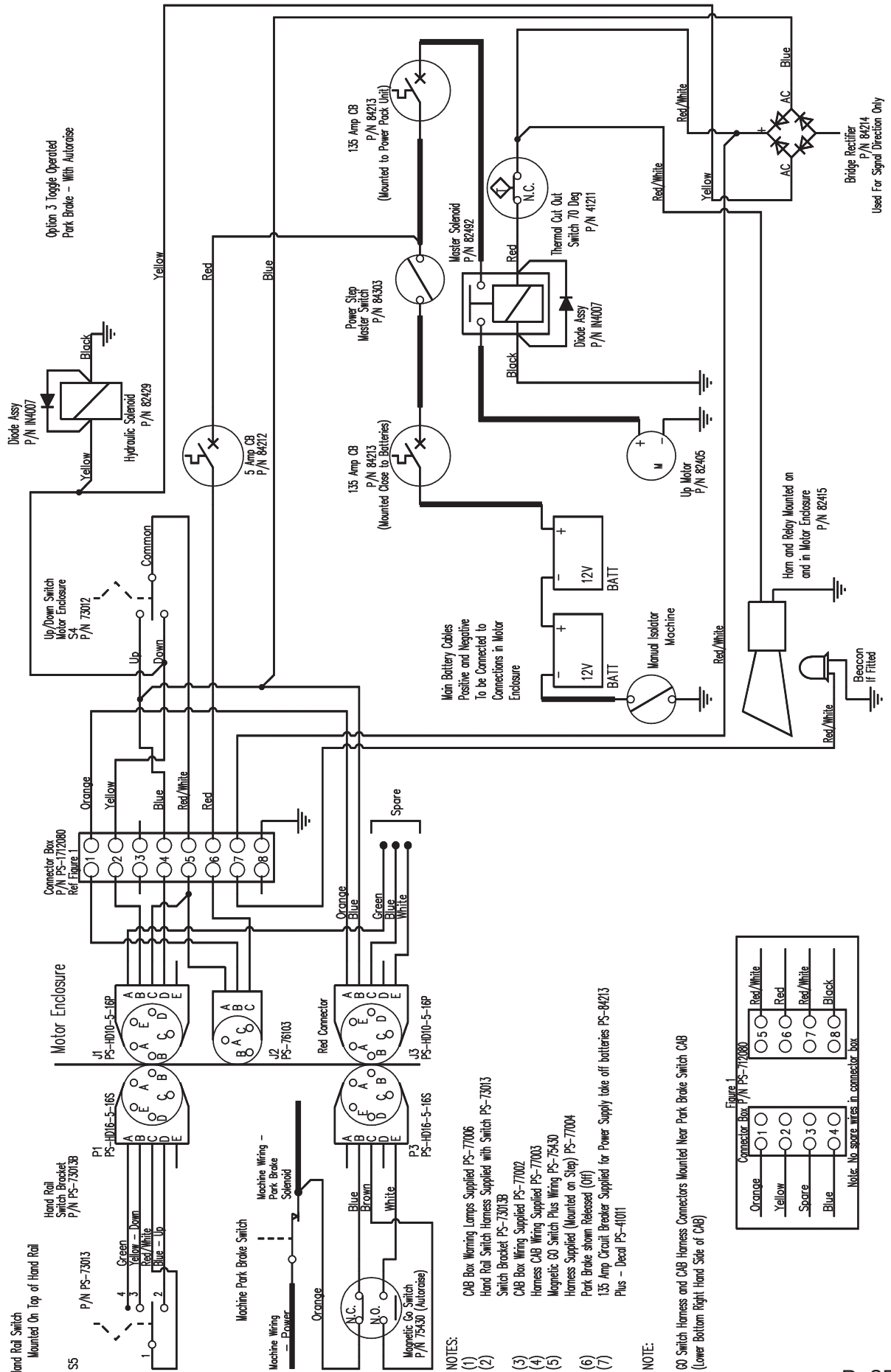
PSA-D9T-RHW-FL 31-3-14



FOLDING LADDER Caterpillar D9T Dozer



Section 4-10 Electrical System - Wiring Diagrams Page 3

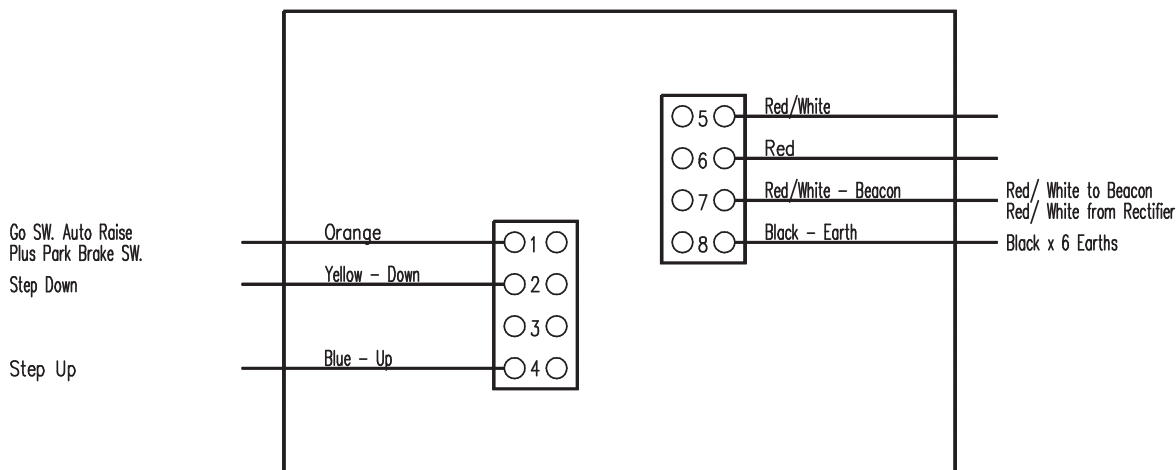


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Section 4-10 Electrical System - Wiring Diagrams Page 4

WIRING HARNESS 1



PARK BRAKE HARNESS- P/No 77006-PB

Plug Term	Colour		Terminal ID.	
(C)	Red	-	COM	Length 10m (Harness Flex No 12)
(A)	Red/White	-	N.C.	
(B)	Orange	-	N.O.	

GO SWITCH HARNESS (Auto Raise) P/No 77009-AR

Plug Term	Colour		Terminal ID.	
(B)	Blue	-	No. 1 Terminal N.C. Contact	Length 10m (Harness Flex No 12)
(E)	White (Spare)	-	No. 2 Terminal N.O. Contact	
(A)	Orange	-	No. 3 Terminal N.C. Contact	
(C)	Brown (Spare)	-	No. 4 Terminal N.O. Contact	

GO SWITCH HARNESS (Cabin to Go Switch) P/No 77004 (Cabin Indicator Ladder Up/Down)

Plug Term	Colour		Terminal ID.	
(B)	Black	-	No. 1 Terminal N.C. Contact	Length 10m (Harness Flex No 12)
(B)	Black	-	No. 2 Terminal N.O. Contact	
(Bridge No. 1 and No. 2 in Go Switch)				
(A)	Red	-	No. 3 Terminal N.C. Contact	
(C)	Yellow	-	No. 4 Terminal N.O. Contact	

HAND RAIL SWITCH HARNESS (P/No 77010) (Handrail SW to Power Pack Box)

Plug Term	Colour		SW Contacts		Switch Terminal No.	
(C)	Red/White	-	No 1	-	No 5	Length 10m (Harness Flex No 12)
(D)	Blue	-	No 2	-	No 4	
(B)	Yellow	-	No 3	-	No 2	
(A)	Green	-	No 4	-		

FOLDING LADDER

Caterpillar D9T Dozer



Section 4-10 Electrical System - Wiring Diagrams Page 5

WIRING HARNESS 2

Go Switch

Auto - Raise Connection

N.C.	-	Orange	-	Blue
N.O.	-	Brown	-	White (Spare)

Go Switch - Cabin Indicator

Up/Down Lights Connection

N.C.	-	Red	-	Black
N.O.	-	Yellow	-	Black



Linked

Hand Control Switch - Mounted on Hand Rails (P/No 73013)

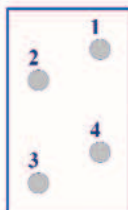
Power Step Wiring Harness (10m) and Connections Supplied

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



FOLDING LADDER

Caterpillar D9T Dozer



Section 4.10 Electrical Controls

Material Kit supplied   PS-P/PACK-ISO. KIT

