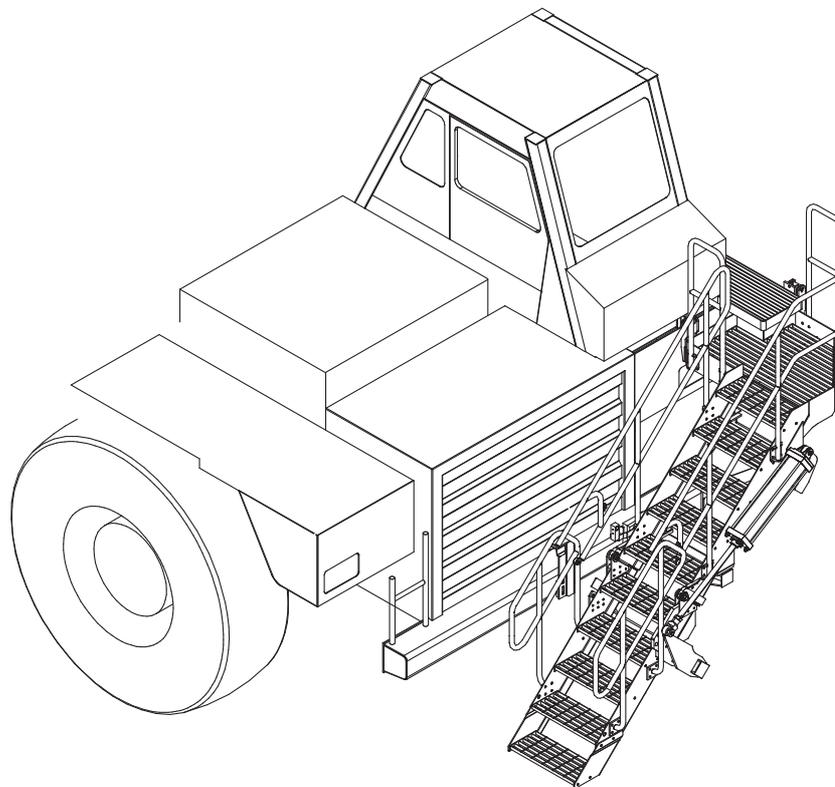


FOLDING STAIRWAY

Manual for Cat 773B Truck

Pneumatic Operation



Model No.PSA-773B-FS
Serial No.:773B - ~
Date Manufactured: August 2012

FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation



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FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

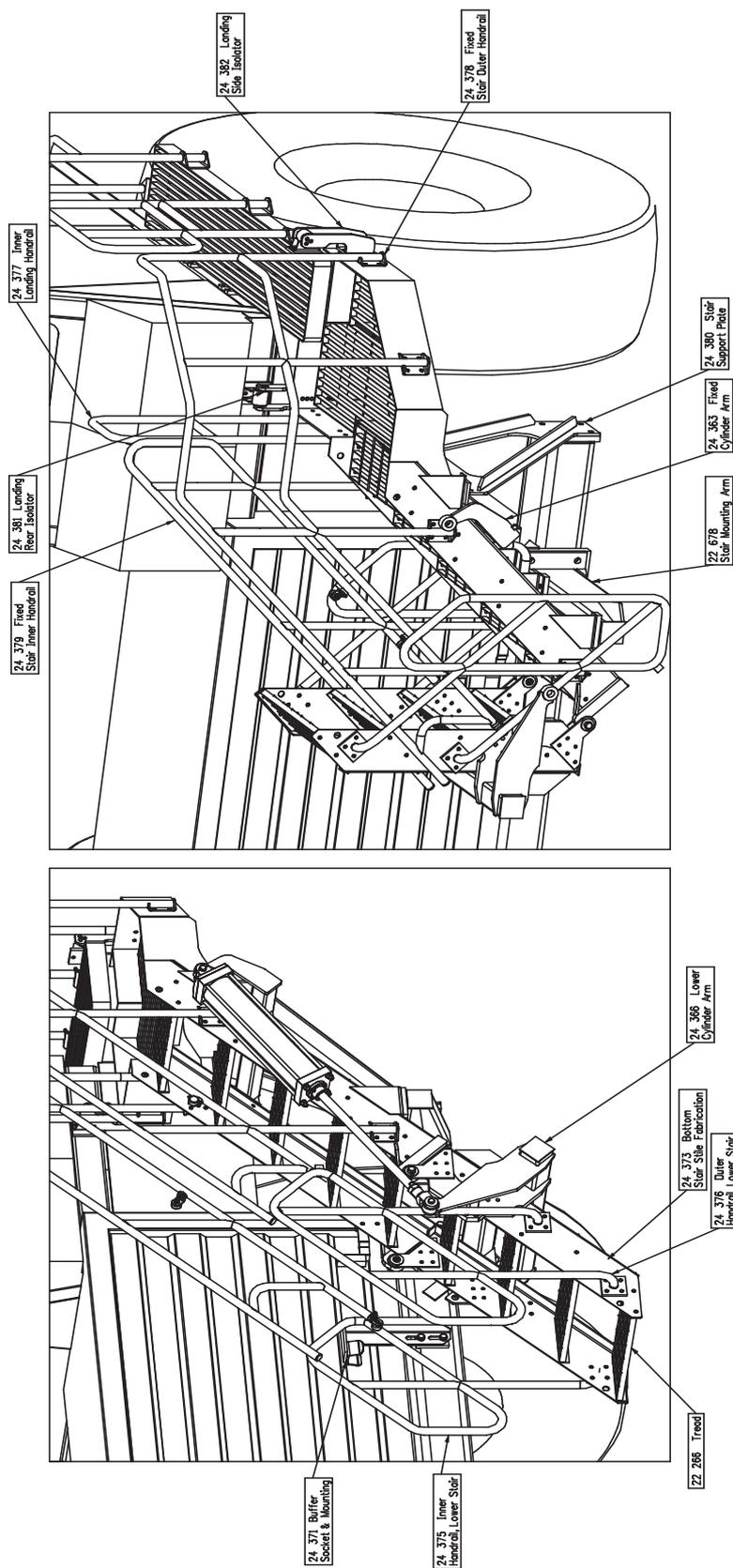
Installation and Mounting Instructions

G.A. PS-24351



NOTE

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



FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 1 Installation Instruction Drawings



24386 & 24387

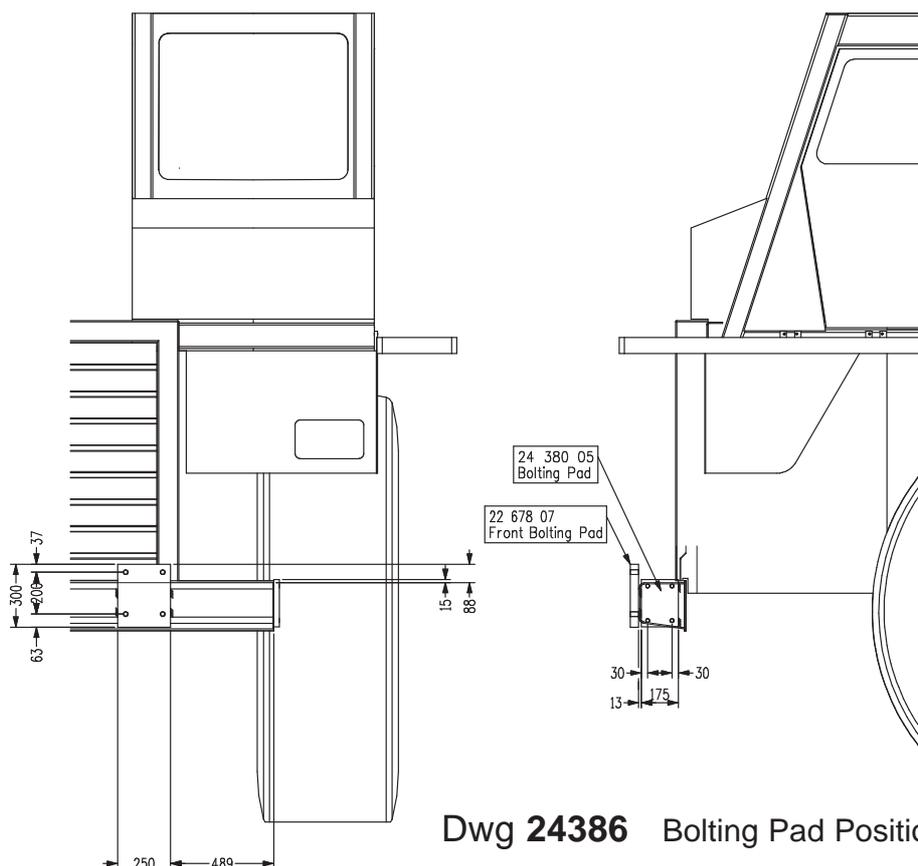
PROCEDURE

See Drawing **24386**- This Page.

1. Attach Bolting Pads to the front bumper of the truck in the positions shown. Use substantial tack welds, eg 2 welds 6mm fillet x 30 long on both sides of both bolting pads.

See Drawing **24387** Page 6

1. Per Views **Z-1**, **Z-2**, **V-3** and **Y**, temporarily fit the assembled stair set to the tackwelded bolting pads.
2. Measure and check if the distances on the truck corresponding to 1 and 2 on Part-Sections **X-X** and **W-W** comply with the dimensions shown.
3. Mounting brackets and isolators must be fitted in the spaces referred to in '2' above. If on-truck measurements comply with the dimensions, the installation can proceed per drawing **24-388**. If not, installation personnel can make minor modifications to the landing and brackets and/or confer with Power Step about how to proceed.
4. After resolving the isolator installation and dimension details from this drawing and Drg **24-388**, complete the welding of the bolting pads per Drg **24-389**.



Dwg **24386** Bolting Pad Positioning

FOLDING STAIRWAY

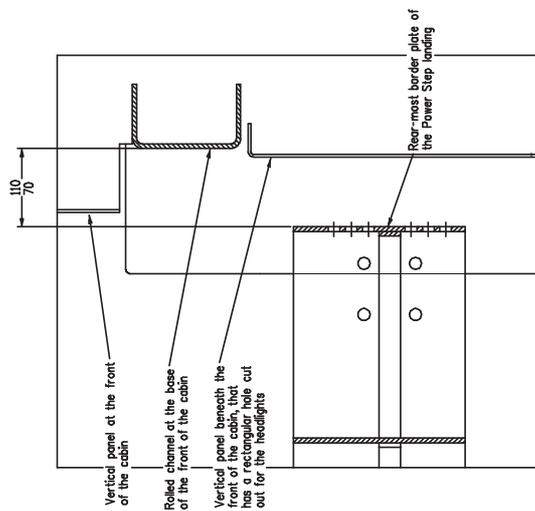
Caterpillar 773B Truck

Pneumatic Operation

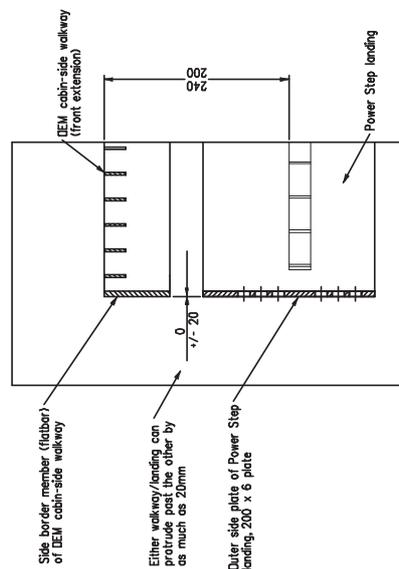
Section 1 Installation Instruction Drawings



PS- 24387

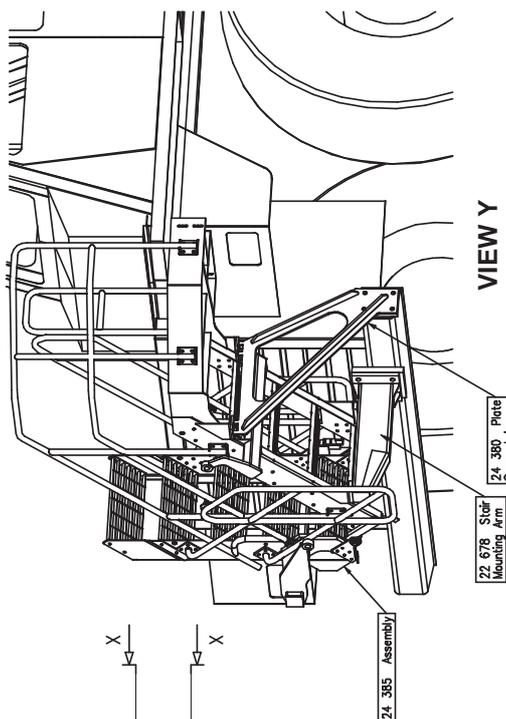


PART SECTION X-X

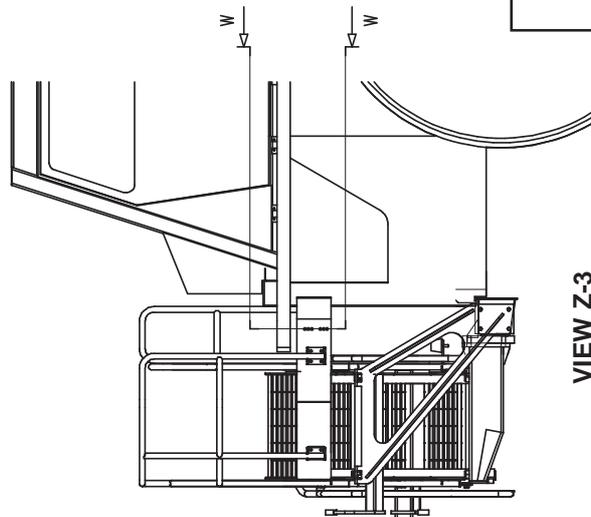


PART SECTION W-W

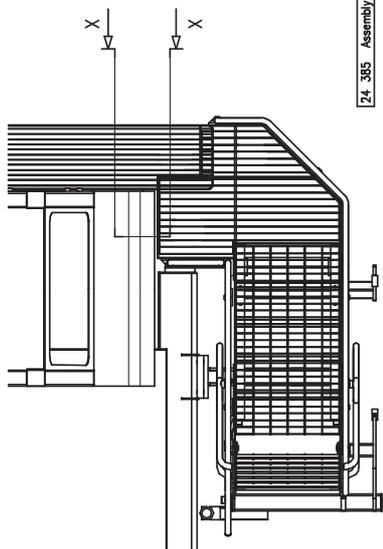
NOTES:
Use safe lifting and working practices at all times.
Do not apply heavy loads to any part of the stair set until the bolting pads are fully welded.



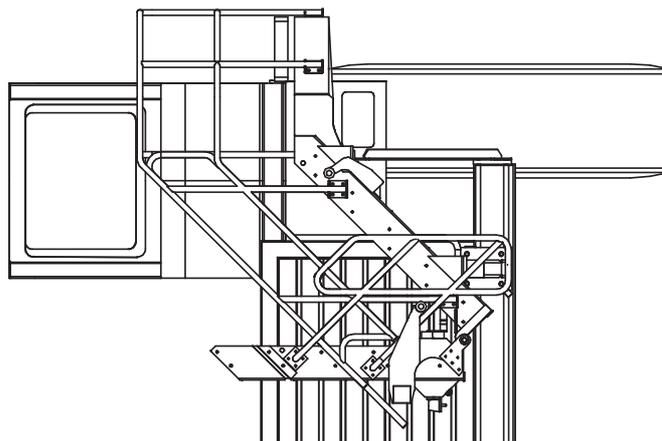
VIEW Y



VIEW Z-3



VIEW Z-1



VIEW Z-2

FOLDING STAIRWAY

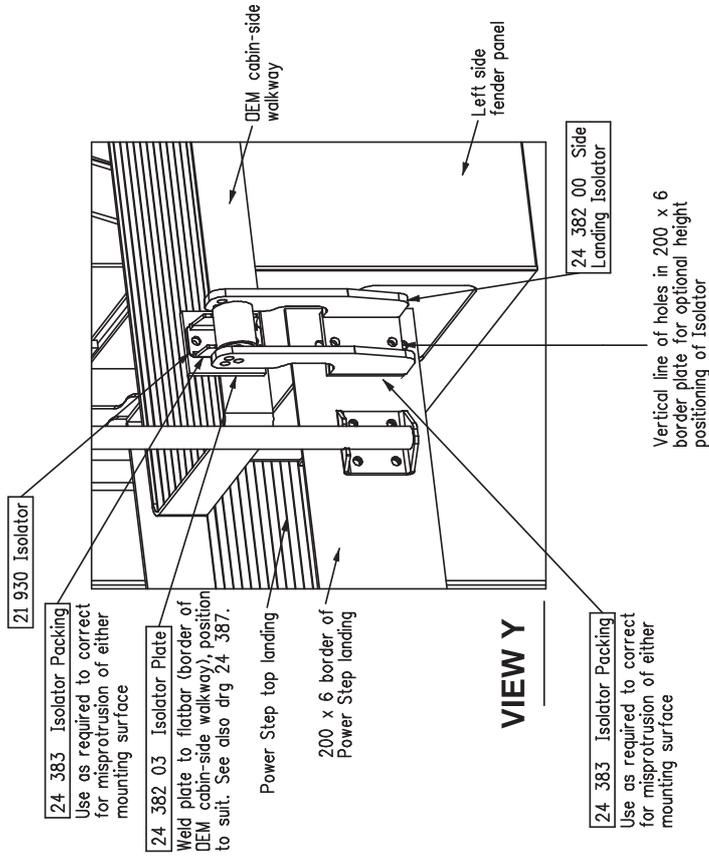
Caterpillar 773B Truck

Pneumatic Operation

Section 1 Installation Instruction Drawings



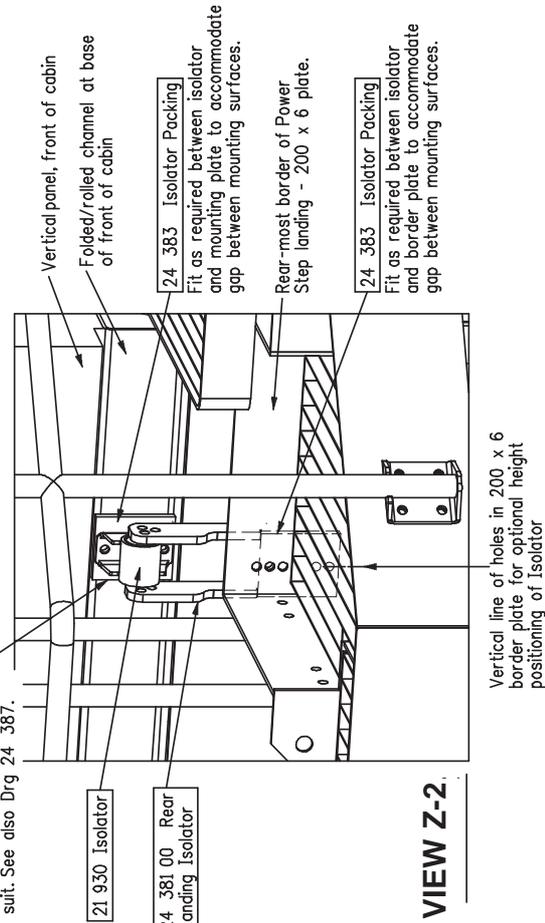
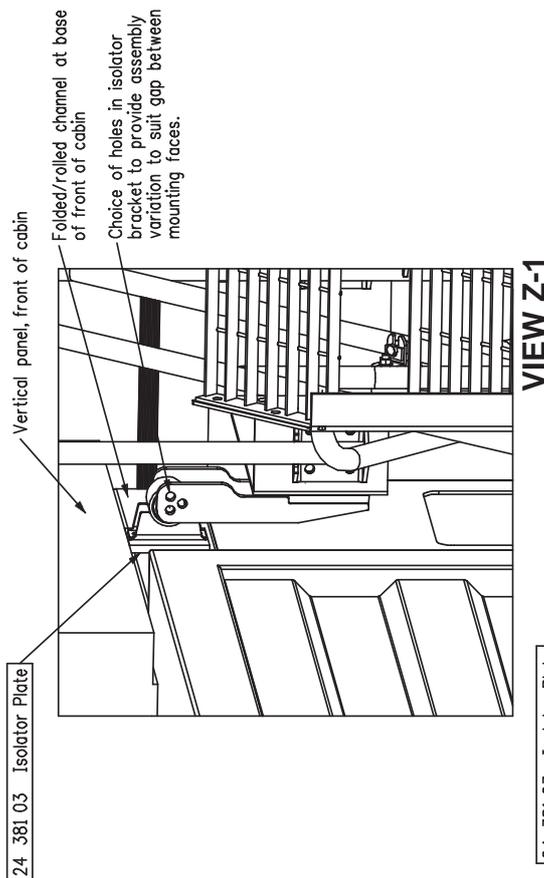
PS- 24388



PROCEDURE

Fit 24 382 00 Side Landing Isolator to the Power Step landing and OEM cabin-side walkway per View Y and 24 381 00 Rear Landing Isolator per Views Z-1 & Z-2.

NOTE: See relevant Install notes related to Part numbers



FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

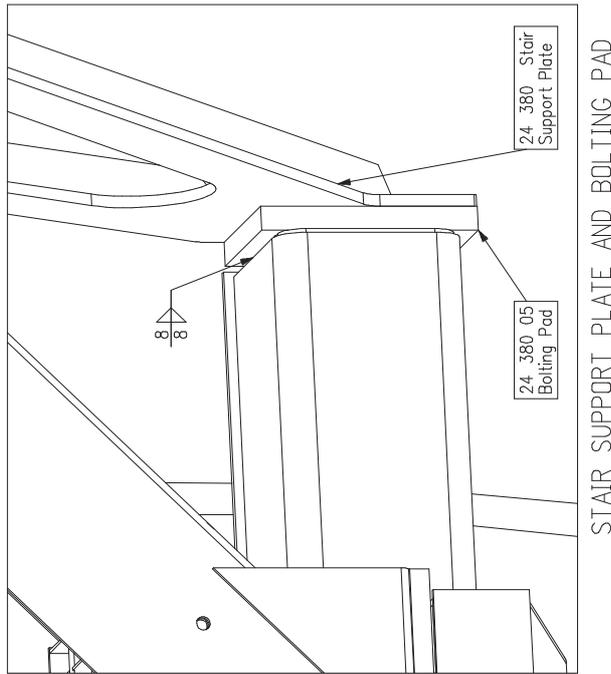
Section 1 Installation Instruction Drawings



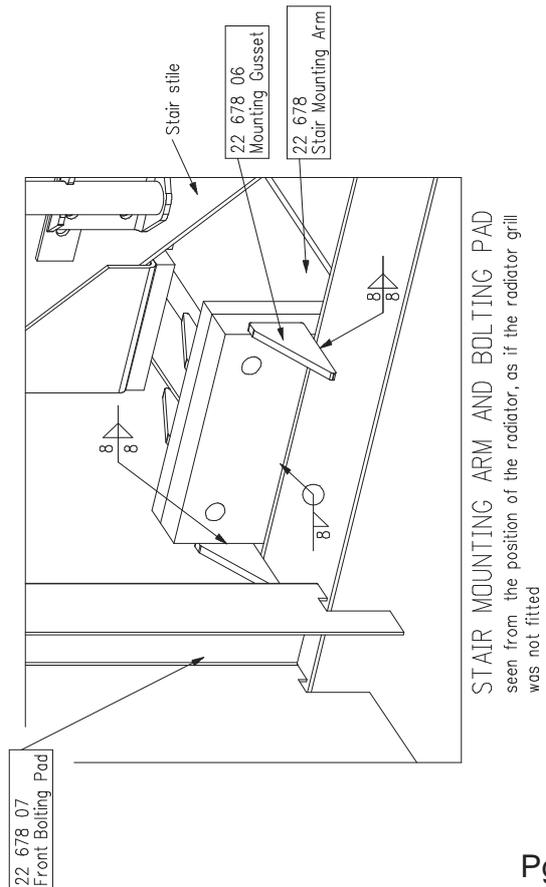
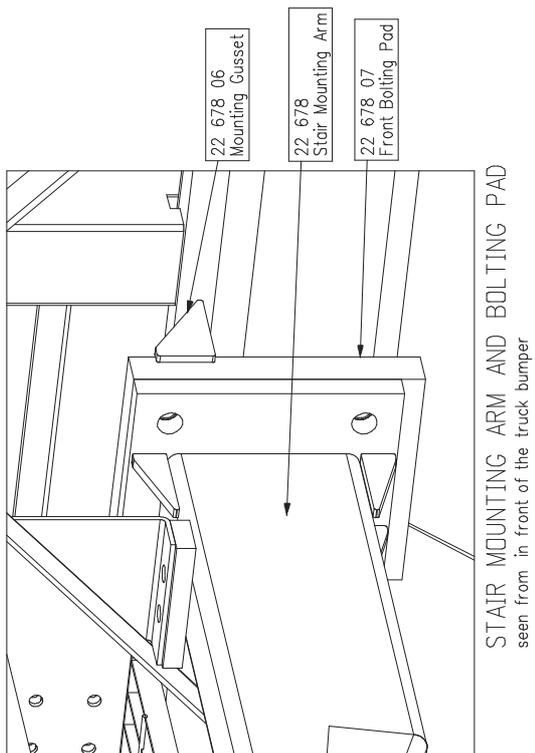
PS- 24389

NOTE

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



All welding must comply with AS1554 Cat SP unless specifically directed otherwise



FOLDING STAIRWAY

Caterpillar 773B Truck

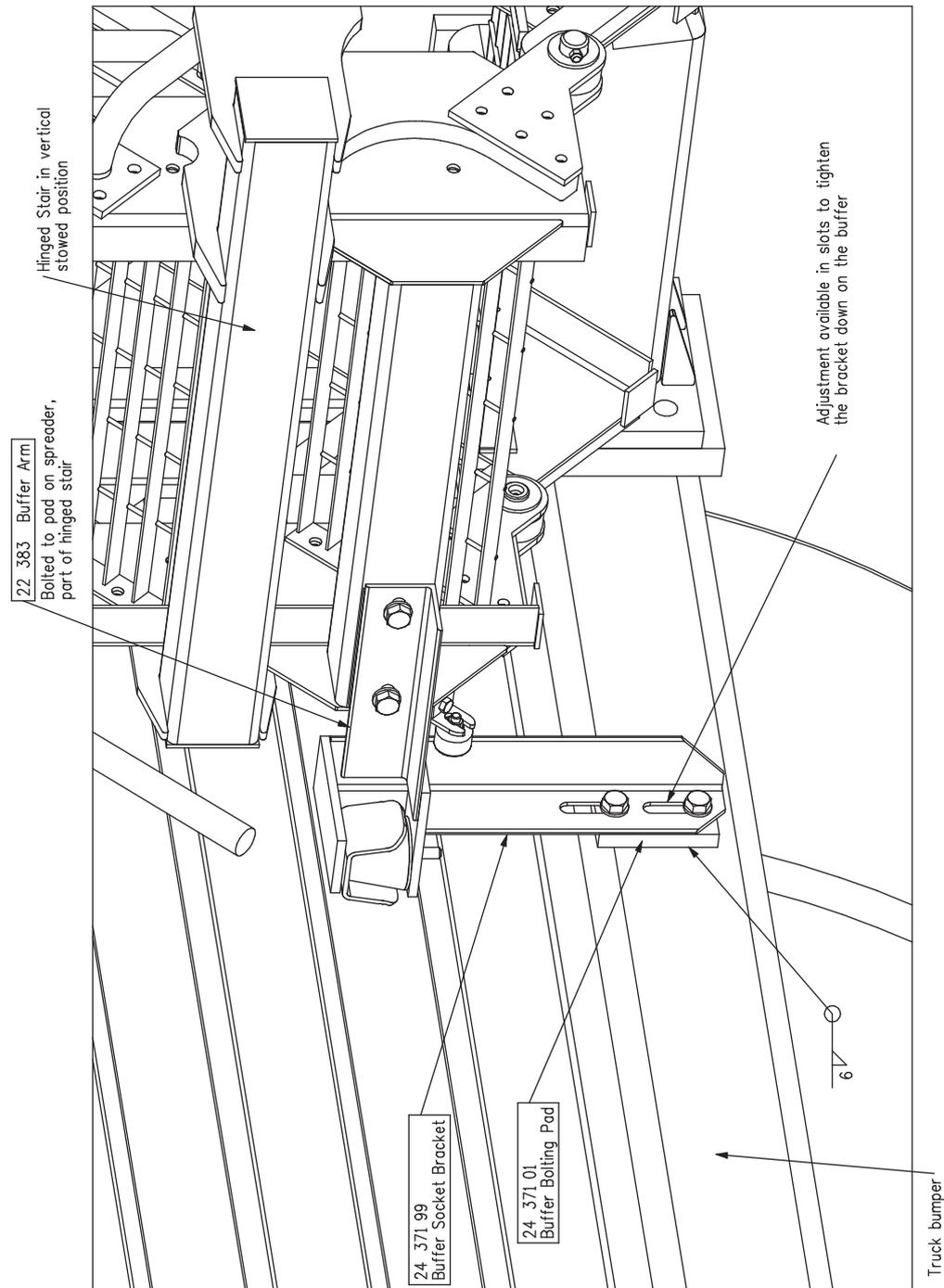
Pneumatic Operation

Section 1 Installation Instruction Drawings



PS- 24390

Buffer Socket Fitment



PROCEDURE

1. Fit Buffer Socket & Mounting **24 371** in suitable position to receive Buffer when Stair is stowed. Pad **24 371 01** welds to truck bumper behind hinged stair. Before locating and welding Pad to bumper, bolt Socket Bracket to Pad with bolts in slots so Bracket is as high as possible relative to Pad, that is, with adjustment available in slot to accommodate future wear and settling in.
2. The Pad and Bracket can then be hung on the buffer (with the lower stair in it is fully raised, stowed position) to establish the position of the Pad on the bumper. Adjust so stair is tight in raised position, not swinging with the truck's movement.

FOLDING STAIRWAY

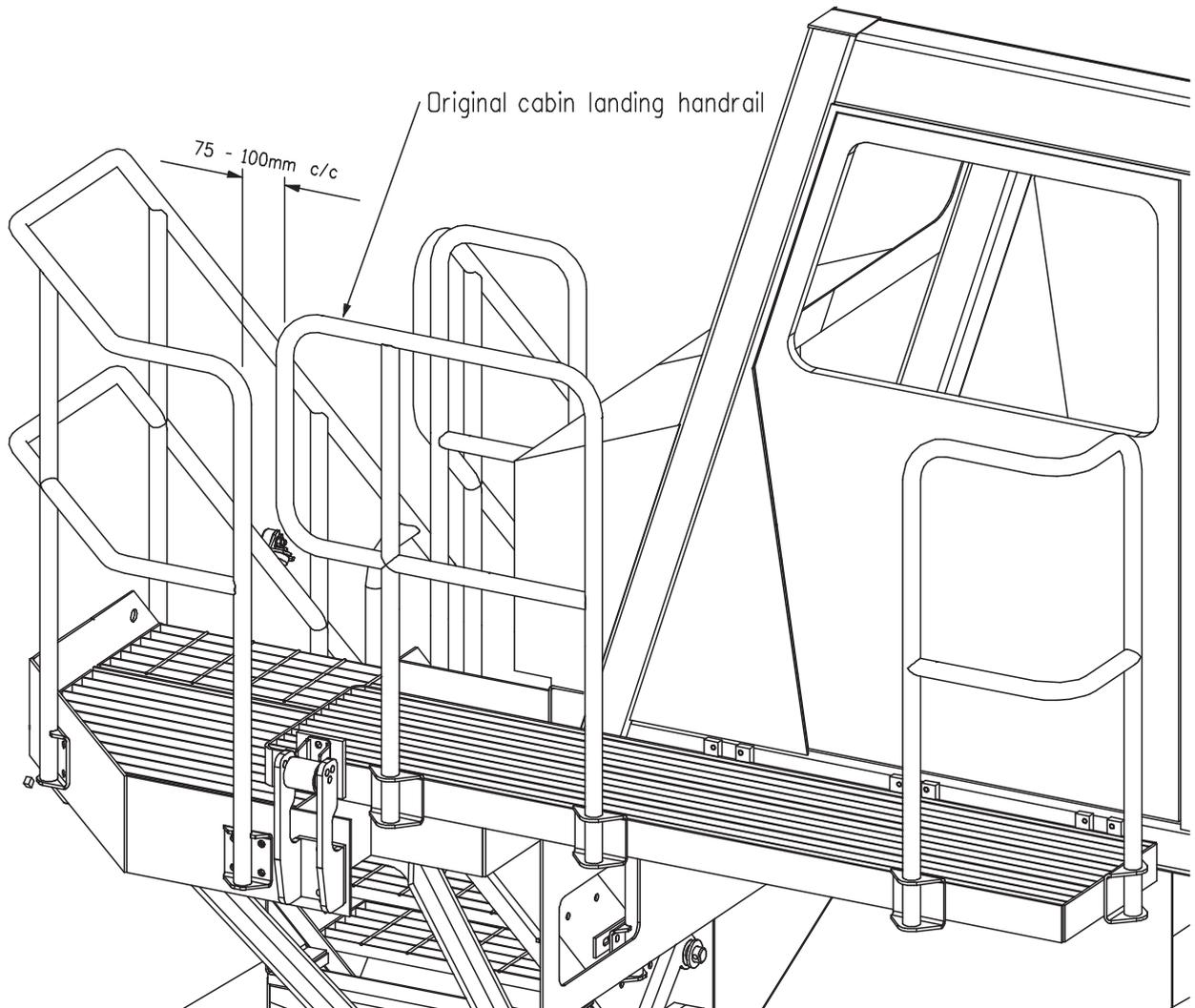
Caterpillar 773B Truck

Pneumatic Operation

Section 1 Installation Instruction Drawings



PS- 24391



Remodel the original cabin landing handrail to suit the handrails on the Power Step landing.

FOLDING STAIRWAY

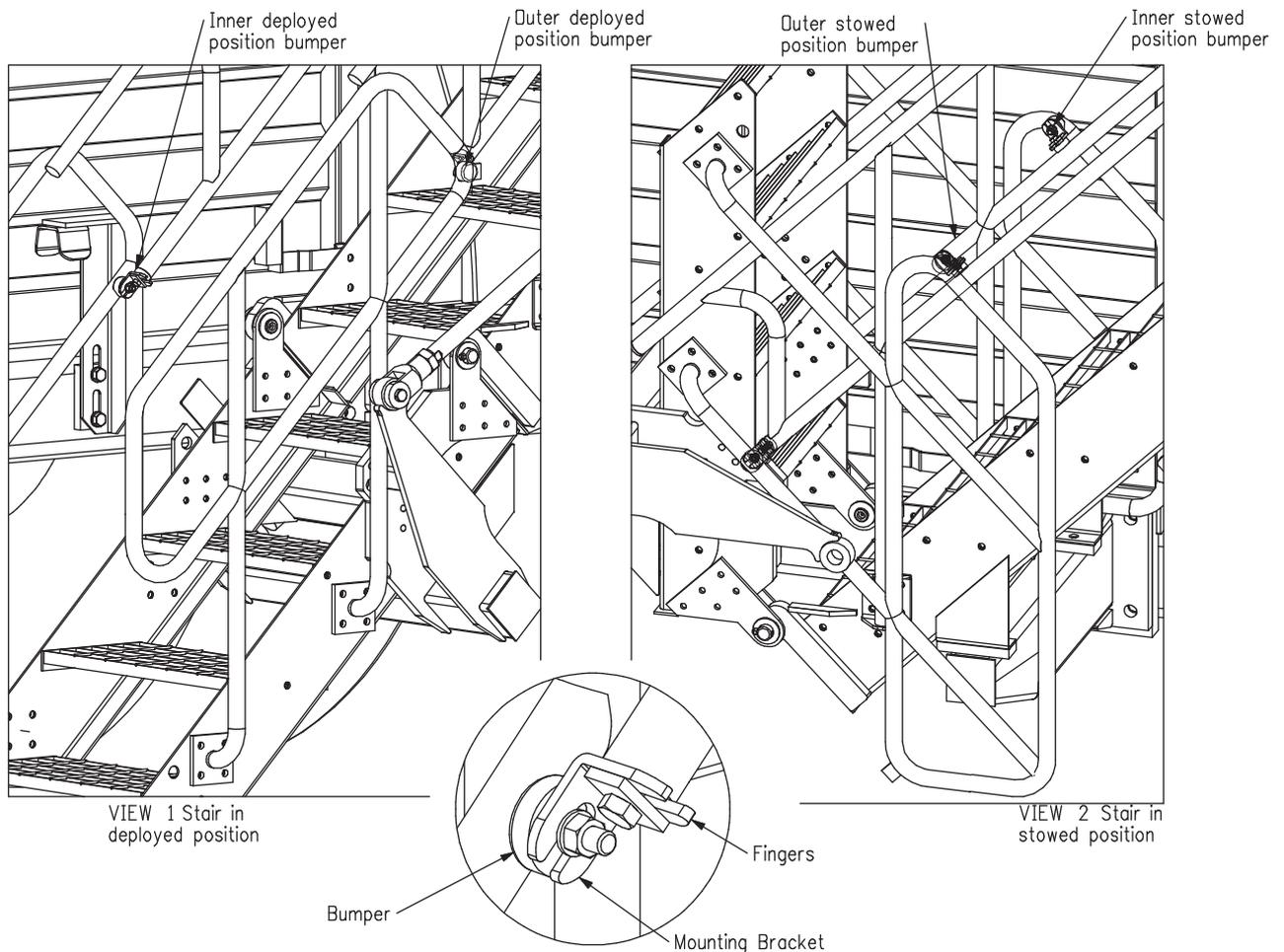
Caterpillar 773B Truck

Pneumatic Operation

Section 1 Installation Instruction Drawings



PS- 24392



NOTE

The stair set is fitted with rubber bumpers to reduce vibration in the handrails.

Adjust the bumpers so they bear firmly on their adjacent handrails.

The bumpers can be adjusted by changing their clamped positions within the fingers of the mounting brackets or they can be adjusted by cutting or grinding to reduce the thickness of the rubber pad.

Trim the fingers of the bumper mountings if by protruding into the walking path of users of the stair they present a danger or inconvenience to the users, eg if they are likely to snare clothing and cause tripping etc.

FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 2 Recommended Maintenance Procedure



Daily

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

Notify the appropriate supervisor for any observed damage or malfunction.

500 Hours

Check main mounting bolts for torque.

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

Repeat daily check as above

5000 Hours

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

Repeat daily check as above

FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

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 air switch adjacent to the ladder, to the down position by pressing the switch down.

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 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 air switch to the raise position (up).

The ladder is now raised and stored.

OPERATING NOTES

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.

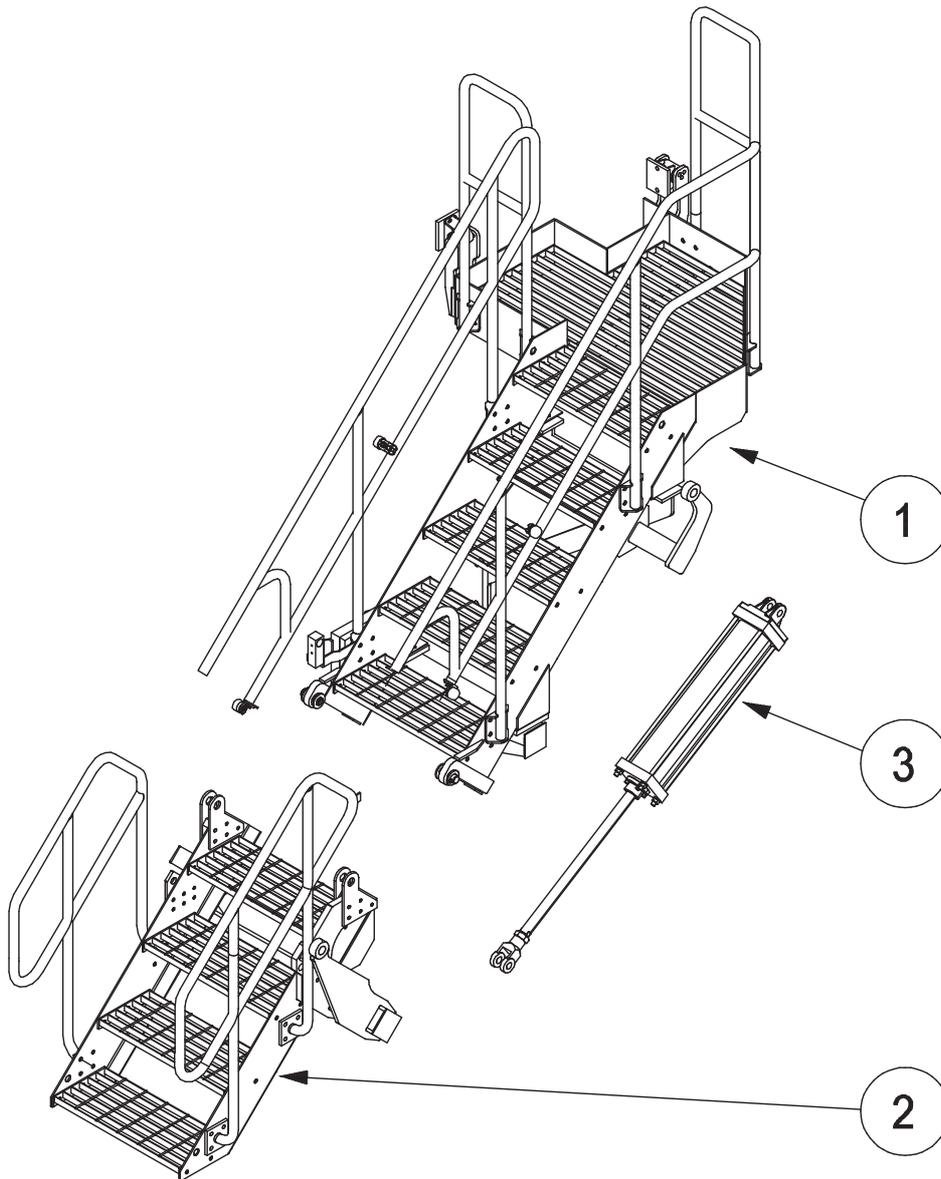
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4 Assembly Complete

PSA-773B-FS



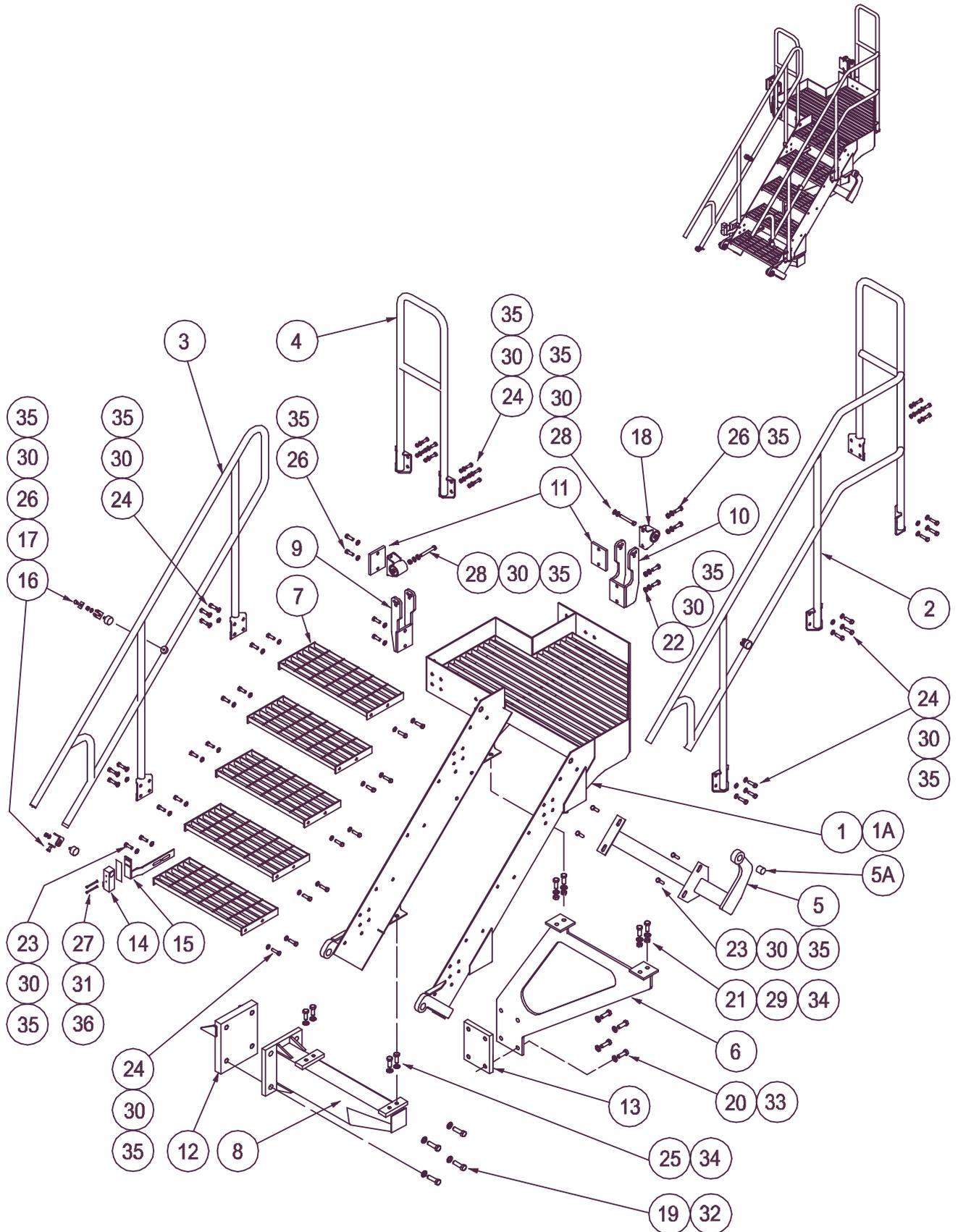
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-1 Fixed Stair & Landing Assembly PS-24358A

See Parts List Page 15



FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-1 Fixed Stair & Landing Assembly PS-24358A

See Drawing Page 14



Item	Part No.	Part Name	Qty		
1	PS-24358	LANDING & FIXED STAIR FABRICATION	1		
1A	PS-24359	LANDING FLOOR PANEL	1		
2	PS-24378	OUTER HANDRAIL-FIXED STAIR	1		
3	PS-24379	INNER HANDRAIL-FIXED STAIR	1		
4	PS-24377	INNER LANDING HANDRAIL	1		
5	PS-24363	FIXED CYLINDER ARM	1		
5A	PS-24362-02	BUSH-(in Cylinder Arm)	1		
6	PS-24380	STAIR SUPPORT PLATE	1		
7	PS-22266	TREAD	5		
8	PS-22678	STAIR MOUNTING ARM	1		
9	PS-24381	ISOLATOR-REAR LANDING	1		
10	PS-24382	ISOLATOR-SIDE LANDING	1		
11	PS-24383	PACKER-ISOLATOR MOUNTINGS	1		
12	PS-22678-07	BOLTING PAD-STAIR MOUNTING ARM	1		
13	PS-24380-05	BOLTING PAD	1		
14	PS-75430	GO SWITCH	1		
15	PS-22238	BRACKET-GO SWITCH	1		
16	PS-40002	HANDRAIL BUMPER	2		
17	PS-24374-01	BRACKET-HANDRAIL BUMPER	2		
18	PS-21930A	ISOLATOR MOUNTING ASSEMBLY	2		
19	CPS-M24X60ZP	BOLT-M24 x 60	4		
20	CPS-M20X30ZP	BOLT-M20 x 30	4		
21	CPS-M16X45ZP	BOLT-M16 x 45	4		
22	CPS-M12X40ZP	BOLT-M12 x 40	4		
23	CPS-M12X35ZP	BOLT-M12 x 35	6		
24	CPS-M12X30ZP	BOLT-M12 x 30	50		
25	CPS-M16X20ZP	BOLT-M16 x 20	6		
26	CPS-M12X20ZP	BOLT-M12 x 20	4		
27	CPS-M5X50ZP	BOLT-M5 x 50	2		
28	CPS-M12X120	BOLT-M12 x 120	2		
29	CPS-M16NZN	NUT-M16	4		
30	CPS-M12NZN	NUT-M12	62		
31	CPS-M5NN	NUT-M5	2		
32	CPS-M24WH	WASHER-HARDENED-M24	4		
33	CPS-M20WH	WASHER-HARDENED-M20	4		
34	CPS-M16WH	WASHER-HARDENED-M16	8		
35	CPS-M12WH	WASHER-HARDENED-M12	130		
36	CPS-M5WH	WASHER-HARDENED-M5	4		

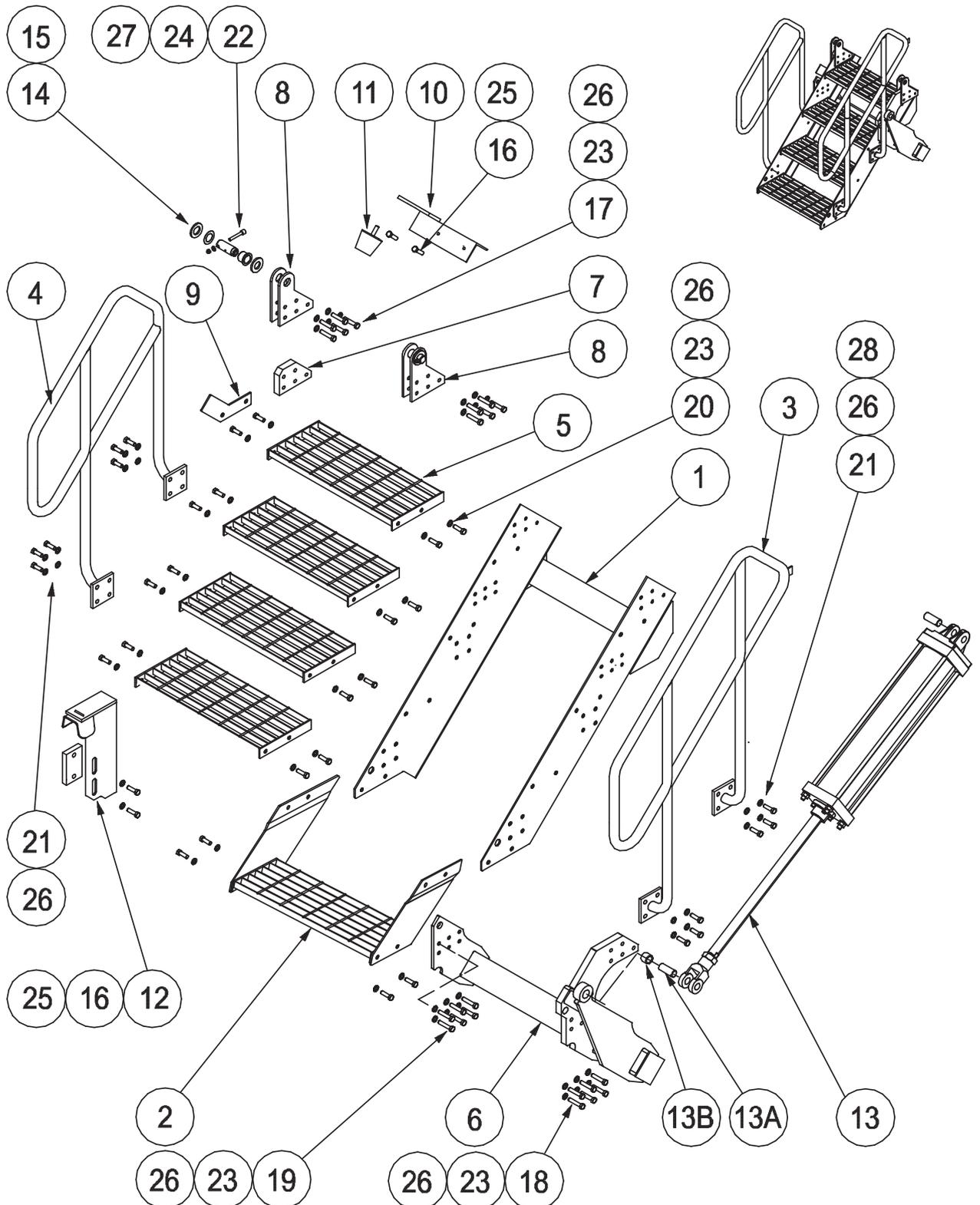
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-2 Lower Stair Assembly PS-24373A

See Parts List Page 17



FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-2 Lower Stair Assembly PS-24373A

See Drawing Page 16



Item	Part No.	Part Name	Qty		
1	PS-24373	BOTTOM STAIR FABRICATION	1		
2	PS-23465	LADDER EXTENSION	1		
3	PS-24376	OUTER HANDRAIL-LOWER STAIR	1		
4	PS-24375	INNER HANDRAIL-LOWER STAIR	1		
5	PS-22266	TREAD (Inc. one on Extension)	5		
6	PS-24366	LOWER CYLINDER ARM	1		
7	PS-24370-03	HINGE PLATE SPACER	1		
8	PS-24370-02	HINGE CHEEK PLATE	4		
9	PS-24370	SWITCH TARGET	1		
10	PS-22383	BUFFER ARM	1		
11	PS-40001	BUFFER	1		
12	PS-24371	BUFFER SOCKET & MOUNTING	1		
13	PS-50501	AIR CYLINDER	1		
13A	PS-50504	PIN-AIR CYLINDER	2		
13B	PS-24362-02	BUSH-CYLINDER LUG	1		
14	PS-22246A	HINGE PIN	2		
15	PS-22246-05	HINGE BUSH	2		
16	CPS-M16X25ZP	BOLT-M16 x 25	4		
17	CPS-M12X65ZP	BOLT-M12 x 65	10		
18	CPS-M12X50ZP	BOLT-M12 x 50	6		
19	CPS-M12X40ZP	BOLT-M12 x 40	6		
20	CPS-M12X30ZP	BOLT-M12 x 30	20		
21	CPS-M12X35ZP	BOLT-M12 x 35	16		
22	CPS-M8X50ZP	BOLT-M8 x 50 (pin keeper bolt)	2		
23	CPS-M12NZP	NUT-M12	58		
24	CPS-M8NN	NUT-NYLOC-M8	8		
25	CPS-M16WH	WASHER-HARDENED-M16	4		
26	CPS-M12WH	WASHER-HARDENED-M12	116		
27	CPS-M8WH	WASHER-HARDENED-M8	2		
	-		-		
28	PS-24384-01	POST PACKERS (not shown) (handrail)	6		

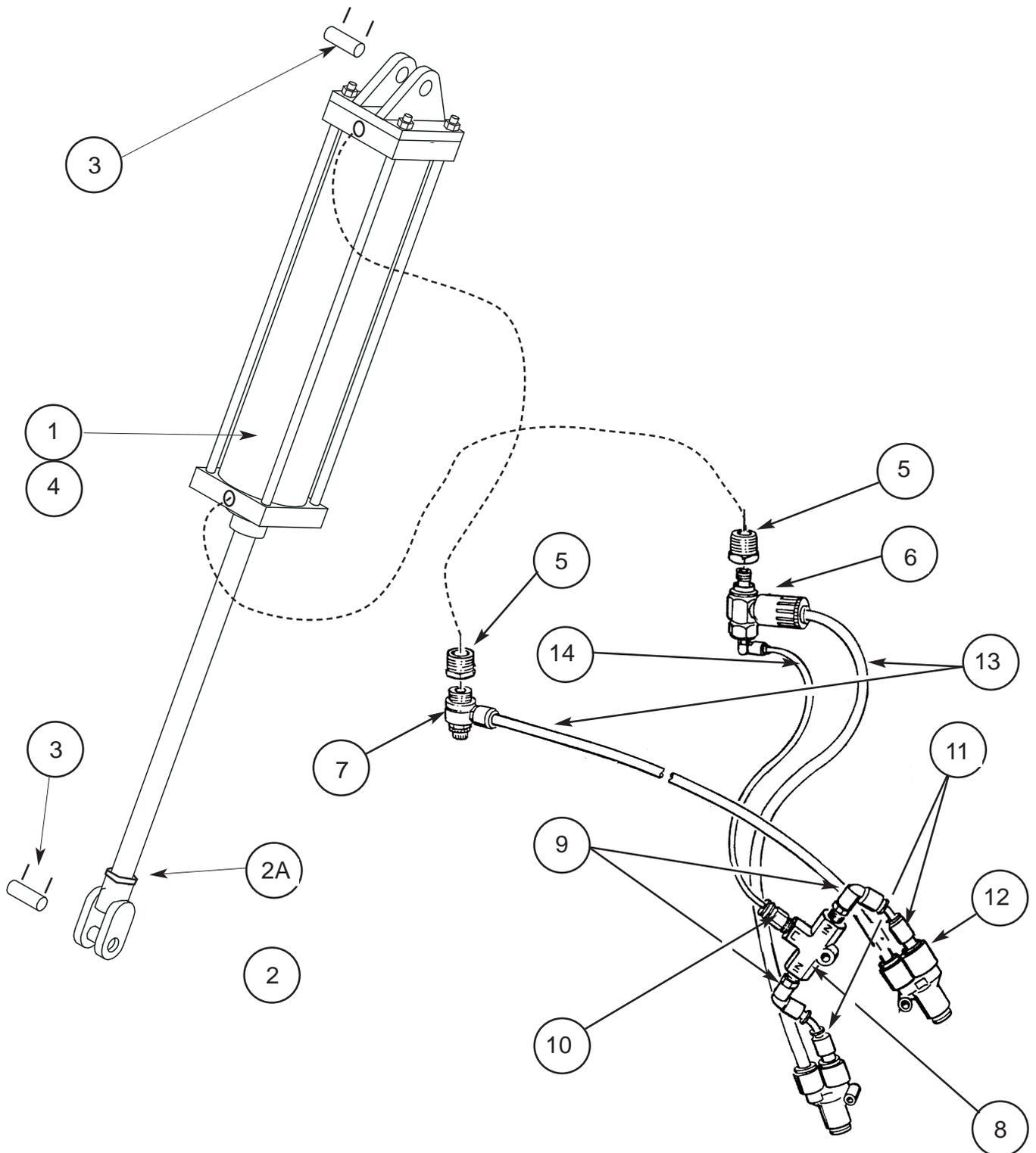
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-3 Pneumatic Cylinder and Plumbing PS-50501-A

See Parts List Page 19



FOLDING STAIR
Caterpillar 773B Truck
Pneumatic Operation



Section 4-3 Pneumatic Cylinder and Plumbing PS-50501-A

See Drawing Page 18

Item	Part No.	Part Name	Qty		
1	PS-50501	CYLINDER 2 1/2"	1		
2	PS-50502	CLEVIS	1		
2A	PS-50503	CLEVIS LOCK NUT	1		
3	PS-50504	PIN-CYLINDER WITH SPLIT PINS	2		
4	PS-50501-1	SEAL KIT (not shown)	1		
5	PS-50008	REDUCING BUSH 1/2"BSP - 1/4" BSP	2		
6	PS-51003	LOCK/FLOW CONTROL VALVE	1		
7	PS-51002	FLOW CONTROL VALVE	1		
8	PS-55105	SHUTTLE VALVE	1		
9	PS-55203	ELBOW 1/8"- 4MM 90 DEG.	2		
10	PS-55205	ADAPTOR 1/8"- 4MM STRAIGHT	1		
11	PS-55216	ADAPTOR 8MM- 4MM STRAIGHT	2		
12	PS-55215	JUNCTION JOINER Y 8MM	2		
13	PS-8MM-TUBE	AIR TUBE 8MM	-		
14	PS-4MM-TUBE	AIR TUBE 4MM	-		

FOLDING STAIRWAY

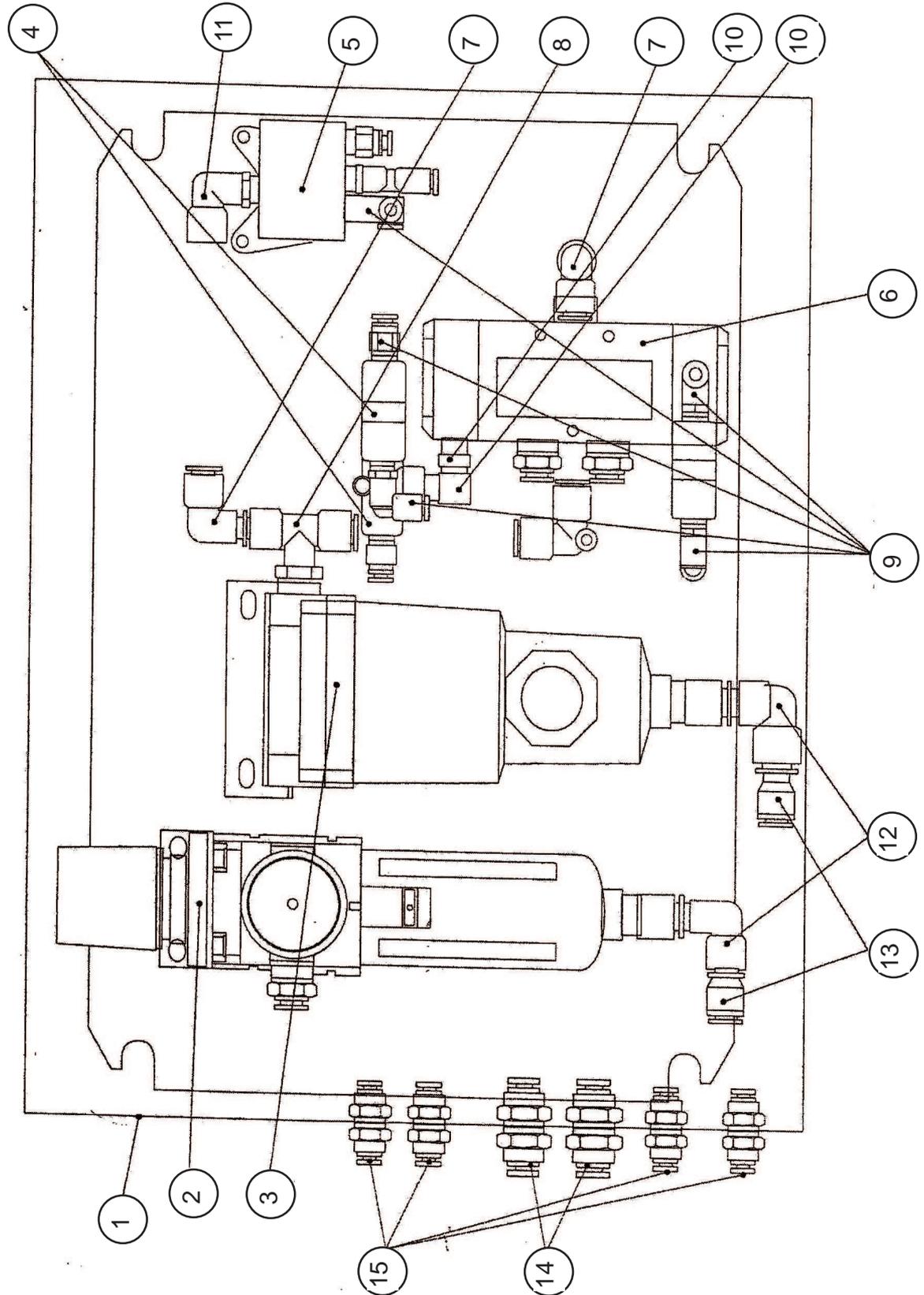
Caterpillar 773B Truck

Pneumatic Operation

Section 4-4 Air Control Box Assy.

PS-55001

See Parts list Page 24



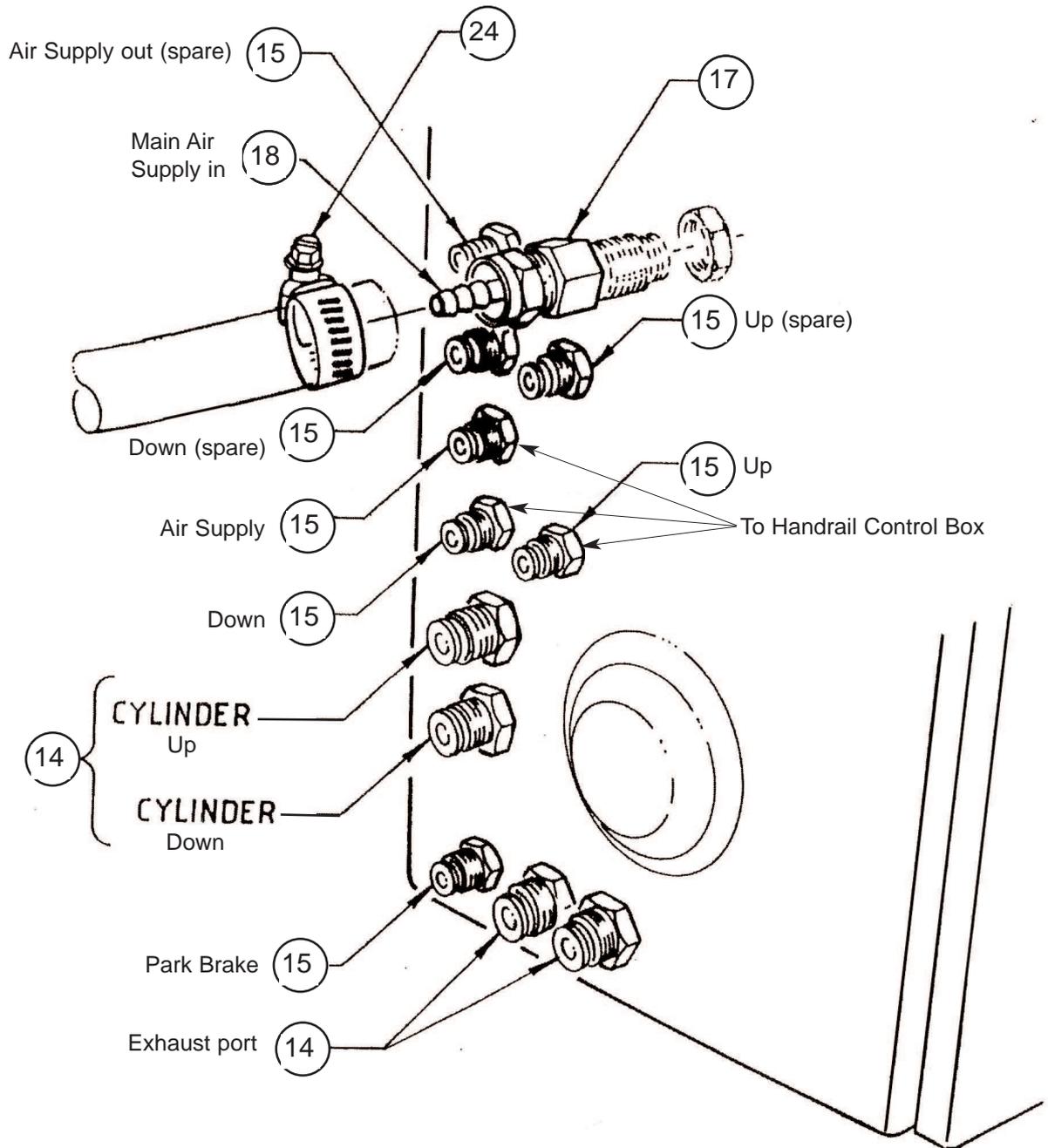
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-4 Air Control Box Assy. Fittings

See Parts list Page 24



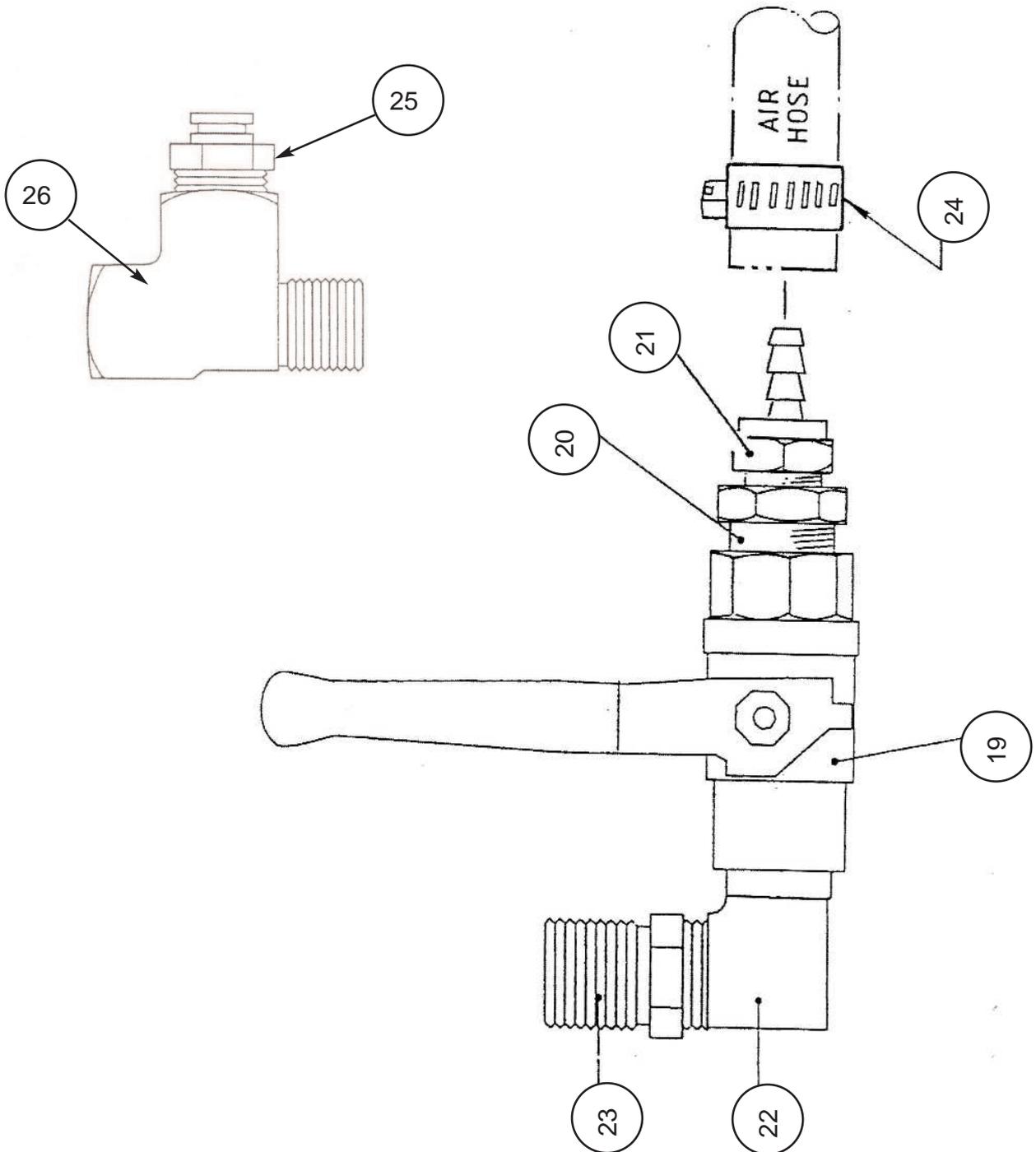
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-4 Air Control Box Assy. Fittings

See Parts list Page 24



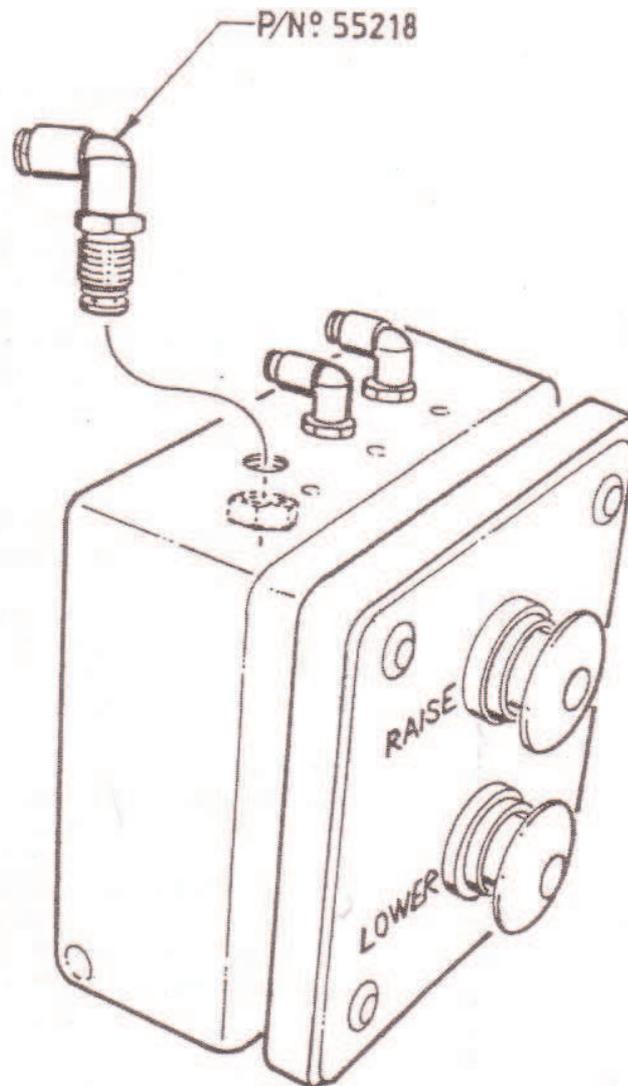
FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-4 Air Control Box Assy.

See Parts list Page 24



Handrail Control Box Assembly PS-55002

FOLDING STAIRWAY

Caterpillar 773B Truck

Pneumatic Operation

Section 4-4 Air Control Box Assy.

See Illustrations Pages 20 - 23

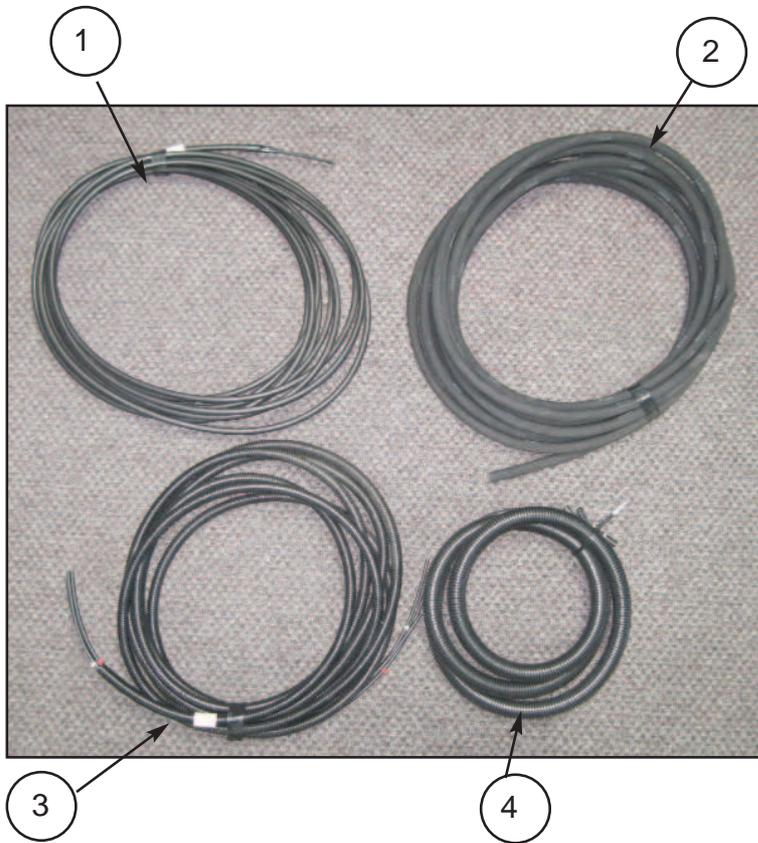


PS-55001

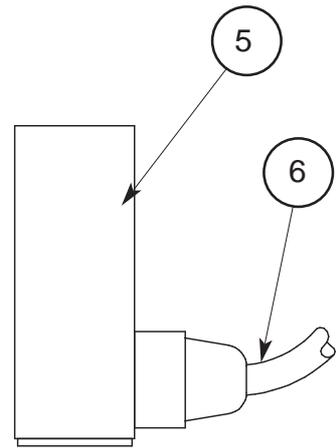
Including items 1-16

Item	Part No.	Part Name	Qty		
1	PS-55001	MOTOR ENCLOSURE- SEALED ST/ST	1		
2	PS-55101	AIR FILTER/REGULATOR	1		
3	PS-55102	MIST SEPARATOR	1		
4	PS-55105	SHUTTLE VALVE	1		
5	PS-55104	PILOT VALVE	1		
6	PS-55103	PILOT VALVE	1		
7	PS-55212	ADAPTOR 8MM 90 DEG. MALE/FEMALE	1		
8	PS-55211	ADAPTOR 3/8"- 8MM TEE	1		
9	PS-55203	ADAPTOR 1/8" - 4MM 90DEG.	5		
10	PS-55402	NIPPLE HEX BRASS 1/8"	1		
11	PS-55403	ELBOW 90DEG. BRASS 1/8"	1		
12	PS-55213	ADAPTOR 10MM/10MM M/F 90 DEG	1		
13	PS-55214	ADAPTOR 10MM/8MM M/F STRAIGHT	2		
14	PS-55201	UNION BULKHEAD 8MM	2		
15	PS-55202	UNION BULKHEAD 4MM	2		
16	PS-55206	ADAPTOR 1/8" - 8MM 90 DEG.	7		
17	PS-55217	FITTING - BULKHEAD 8MM-3/8" BSPF	1		
18	PS-50101	ADAPTOR 3/8"BSPP	1		
19	PS-50003	BALL VALVE 1/2" SELF DRAINING	1		
20	PS-50004	REDUCER 1/2"-3/8" BSPP	1		
21	PS-50101	ADAPTOR 3/8"-8MM	1		
22	PS-50002	ELBOW 1/2"BSPP	1		
23	PS-50001	REDUCING SOCKET 3/4"-1/2" BSPP	1		
24	PS-50101-H	HOSE CLAMP	1		
25	PS-50102	ADAPTOR 1/4"NPT 4MM	1		
26	PS-50005	TEE 1/4 NPT	1		

FOLDING STAIRWAY
Caterpillar 773B Truck
Pneumatic Operation
Section 4-5 Electrical Controls



Proximity Switch Assembly
 Mounted on Fixed Landing



Cab Harness & Equipment
 Refer Wiring Harness Drawings



FOLDING STAIR
Caterpillar 773B Truck
Pneumatic Operation
Section 4-5 Electrical Controls



See Photo Page 23

Item	Part No.	Part Name	Qty		
1	PS-55225	AIR PARK BRAKE HARNESS	1		
2	PS-55227	MAIN AIR HOSE-10M	1		
3	PS-55226	MAIN CONTROL TO HANDRAIL BOX HARNESS-10M	1		
4	PS-55228	MAIN CONTROL BOX TO AIR CYLINDER	1		Optional only
5	PS-75430	PROXIMITY SWITCH	1		
6	PS-77004	PROXIMITY SWITCH HARNESS	2		1 x Optional
7	PS-77002	CABIN BOX LED LIGHT INDICATOR	1		
8	PS-77003	WIRING HARNESS	1		

WARNING

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

FOLDING STAIR

Caterpillar 773B Truck

Pneumatic Operation

Section 4-5 Electrical Controls - Wiring Diagram



0201-02
Sheet 1

LADDER UP/DOWN

