SECTION 1. SPECIFICATIONS

Drive Pump

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Table 2-3. Preventive Maintenance and Safety Inspection

AREA	INTERVAL				
	10Hours (Daily)	50 Hours (Weekly)	200 Hours (Monthly)	500 Hours (3 Month)	1000 Hours (6 Month)
PLATFORM					
1. Controller	1,11				
2. Switches	1,11				
3. Placards and Decals	1,2				
4. Control Tags	1,2				
5. Hoses and Cables		4,8			
6. Wear Pads			8		
7. Handrails and Chains	1,4				
CHASSIS					
1. Engine Oil	3	5			
2. Battery	3	5			
3. Air Cleaner	1	14			
4. Exhaust System	1		1,5		
5. Engine Mounts			1		
6. Hydraulic Pump	1	5			
7. Valves	1	5			
8. Hydraulic Filter (See Lubrication Chart)		5,14	14		
9. Hydraulic Hoses and Tubing	1	5			
10. Hydraulic Oil Tank*	3	5	4		
11. Hydraulic Tank Breather		6,14			
12. Fuel Tank	3,5		4		
13. Lift Cylinder	1,12	5,6,13	4		
14. Limit Switch	1,7				
15. Tilt Alarm Switch					1,7
16. Placards and Decals	1,2				
17. Wheel and Tire Assemblies	1	8,9			
18. Drive Motors		1,5,6			
19. Drive Brakes		1,6	8		
20. Drive Torque Hubs		1,3,5,6			
21. Steer Cylinder	1	5,6,13	4		
22. Steer Components	1	4,6	8		
23. Wheel Bearings (2 Wheel Drive)			8	12	
24. Sizzor Arms	1,4				
25. Safety Props	1,4				
26. Sliding Wear Pads			8		
27. Pivot Pins/Bolts	1,4		7,8		
28. Switches, Ground Control	1,11				
29. Control Tags	1,2				

* Inspection and Maintenance code 10 to be performed annually

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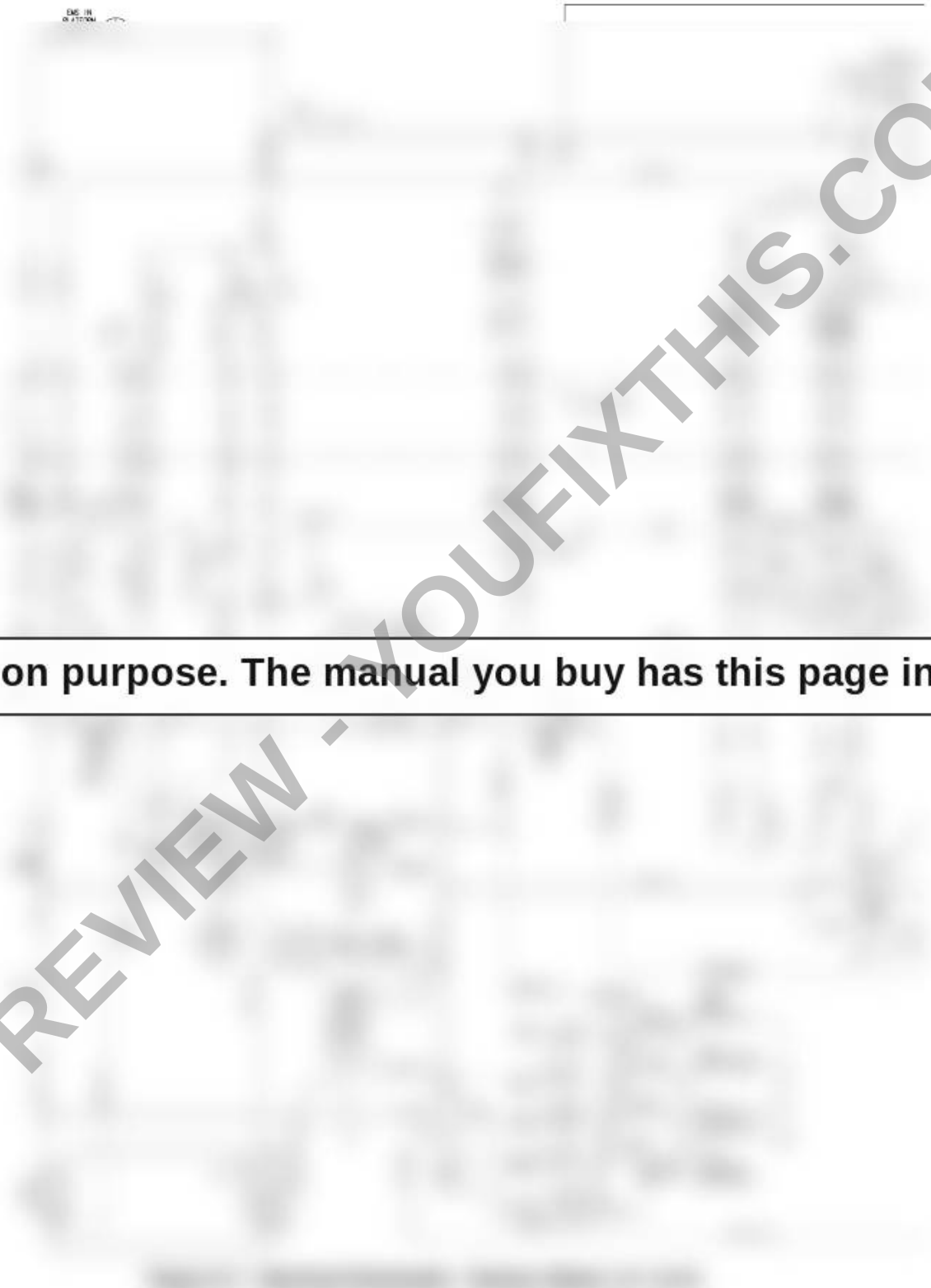
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Table 3-1. Elevation System Troubleshooting

TROUBLE	PROBABLE CAUSE	REMEDY
	Platform Elevation System	
No Response to LIft Control		
	Enable switch not activated.	Activate enable switch.
	Lift control switch not activated within three seconds after enable switch is activated.	Activate enable switch, then activate lift control switch within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	Lift control switch inoperative.	Repair or replace control switch.
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken supply line on valve bank or pump.	Clean, repair or replace line.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace cylinder.
	Hydraulic pump not functioning properly.	Repair or replace pump.
Platform will not raise.		
	Enable switch not activated.	Activate enable switch.
	Lift control switch not activated within three seconds after enable switch is activated.	Activate enable switch, then activate lift control switch within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	Load capacity exceeded. (Personnel and/or equipment on platform).	Reduce load. (Refer to capacity placard).
	Hydraulic system oil low.	Replenish oil as necessary.
	Restricted or broken hydraulic line or fitting.	Clean, repair, or replace line or fitting.
	Control valve not functioning properly.	Repair or replace valve.
	Lift cylinder not functioning properly.	Repair or replace lift cylinder.
	Engine does not respond when lift control switch is moved to up position.	Refer to Electrical System Troubleshooting - No response to control switch.
	No electrical signal being sent to lift up control valve cartridge.	Refer to Electrical System Troubleshooting - No response to control switch.
Platform will not lower		
	Enable switch not activated.	Activate enable switch.
	Lift switch not activated within three sec. after enable switch is activated.	Depress lift switch, then activate controller within three seconds.
	Enable circuit not functioning properly.	Replace enable circuit card.
	No electrical signal sent to lift down control valve cartridge.	Refer to Electrical System Troubleshooting - No response to control switch.
	Lift down control valve cartridge not functioning properly.	Repair or replace lift down control valve cartridge.
	Lift cylinder not functioning properly.	Repair or replace lift cylinder.
	Engine does not respond when lift switch is moved to down position.	Refer to Electrical System Troubleshoot ing - No response to control switch.
	No electrical signal being sent to lift down control valve.	Refer to Electrical System Troubleshoot ing - No response to control switch.

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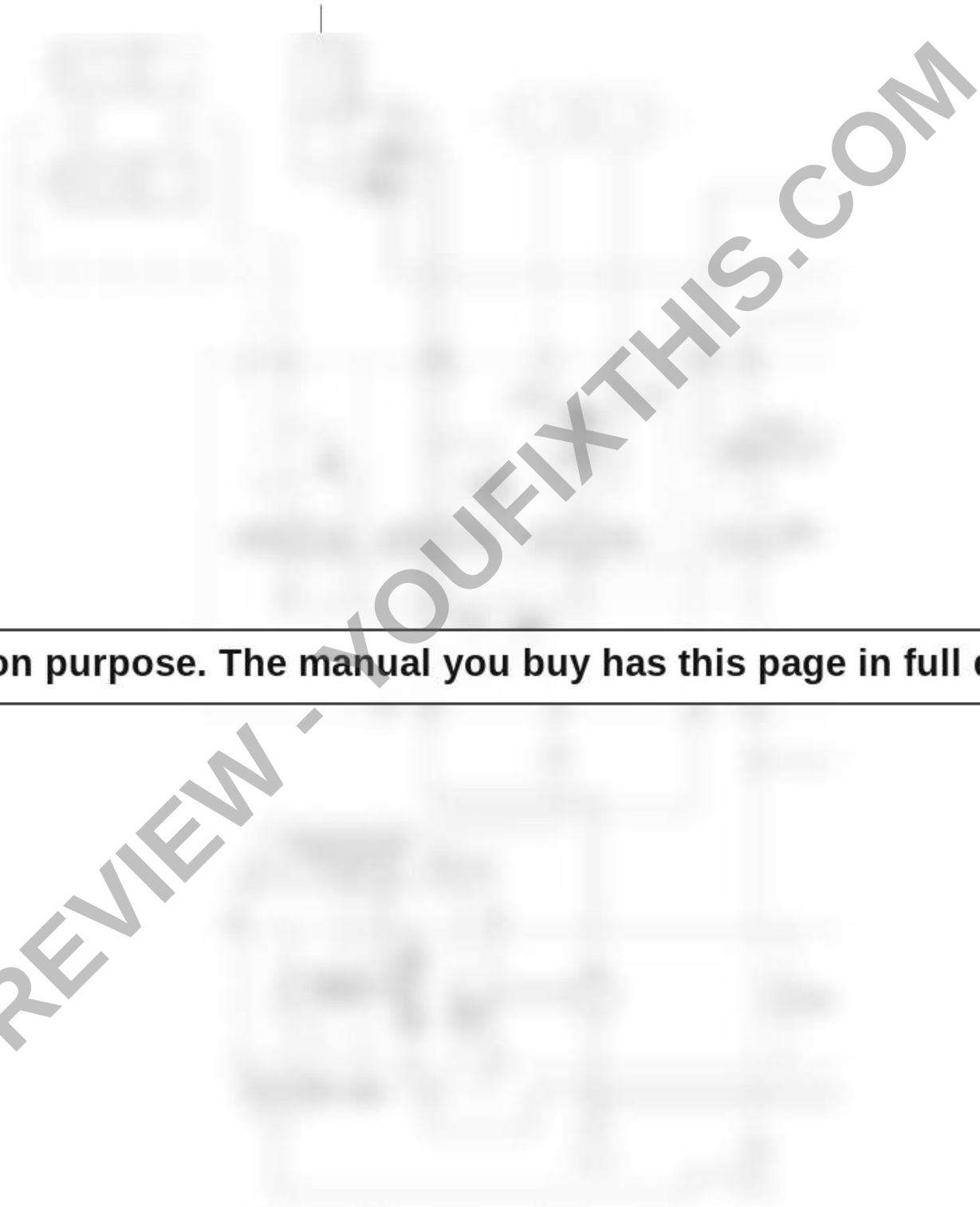
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Cylinders w/Single Counterbalance Valves - Lift Cylinder

IMPORTANT

OPERATE ALL FUNCTIONS FROM GROUND CONTROL STATION ONLY.

1. Using all applicable safety precautions, activate hydraulic system.

WARNING

WHEN WORKING ON THE LIFT CYLINDER, RAISE THE PLATFORM COMPLETELY AND SUPPORT THE PLATFORM USING A SUITABLE OVERHEAD LIFTING DEVICE.

DO NOT FULLY EXTEND LIFT CYLINDER TO END OF STROKE. RETRACT CYLINDER SLIGHTLY TO AVOID TRAPPING PRESSURE.

2. Raise platform completely then retract cylinder slightly to avoid trapping pressure. Place a suitable overhead lifting device approximately 1 inch (2.5 cm) below the platform.
3. Shut down hydraulic system and allow machine to sit for 10-15 minutes. Carefully remove hydraulic hoses from cylinder port block.
4. There will be initial weeping of hydraulic fluid, which can be caught in a suitable container. After the initial discharge, there should not be any further leakage from the ports. If leakage continues at a rate of 6-8 drops per minute or more, the counterbalance valve is defective and must be replaced.
5. If no repairs are necessary or when repairs have been made, carefully reconnect hydraulic hoses to the appropriate ports.
6. Remove lifting device from platform, activate hydraulic system and run cylinder through one complete cycle to check for leaks.

2.9 LIFT CYLINDER REMOVAL AND INSTALLATION

Removal

1. Place the machine on a flat and level surface. Start the motor and raise the platform. Shut down the engine and attach a suitable lifting device to the platform.
2. Remove the bolt and locknut securing the cylinder rod attach pin to the upper inner arm assembly. Using a suitable brass drift, drive out the rod end attach pin from the arm assembly.
3. Retract the lift cylinder rod completely.
4. Tag and disconnect the hydraulic lines, then cap the lift cylinder hydraulic lines and ports.
5. Remove the bolt and locknut securing the barrel end attach pin to the lower arm assembly. Using a suitable brass drift, drive out the barrel end attach pin from the arm assembly.
6. Carefully remove the cylinder from the scissor lift and place in a suitable work area.

Installation

1. Install lift cylinder in place using suitable slings, aligning barrel end attach pin mounting holes on lower arm assembly.
2. Using a suitable drift, drive the barrel end attach pin through the mounting holes in the lift cylinder and the lower arm assembly. Secure in place with the bolt and locknut.
3. Remove cylinder port plugs and hydraulic line caps and correctly attach lines to cylinder ports.
4. Extend the cylinder rod until the attach pin hole aligns with those in the upper arm assembly. Using a suitable drift, drive the cylinder rod attach pin through the aligned holes, taking care to align the pin retaining hole with the hole in arm assembly. Secure the pin in place with the bolt and locknut.
5. Lower platform to stowed position and shut down motor. Check hydraulic fluid level and adjust accordingly.

2.10 LIFT CYLINDER REPAIR

Disassembly

IMPORTANT

DISASSEMBLY OF THE CYLINDER SHOULD BE PERFORMED ON A CLEAN WORK SURFACE IN A DIRT FREE WORK AREA.

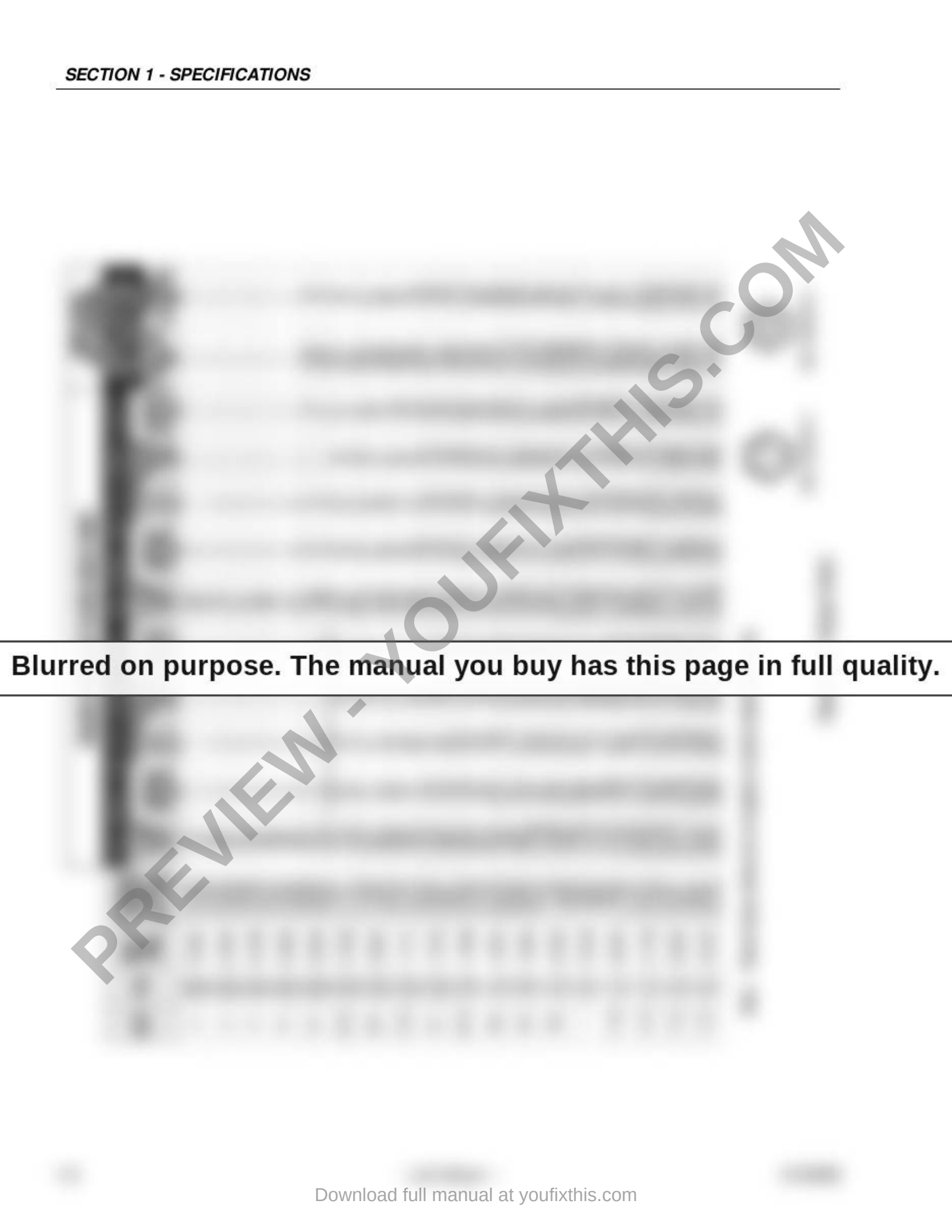
1. Connect a suitable auxiliary hydraulic power source to the cylinder port block fitting.

IMPORTANT

DO NOT FULLY EXTEND CYLINDER TO END OF STROKE. RETRACT CYLINDER SLIGHTLY TO AVOID TRAPPING PRESSURE.

2. Operate the hydraulic power source and extend the cylinder. Shut down and disconnect the power source. Adequately support the cylinder rod, if necessary.

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