1-1. CAPACITIES.

- **Hydraulic Oil Tank.**

1532E/1932E.

Tires - 2033E/2046E/2646E/2658E.

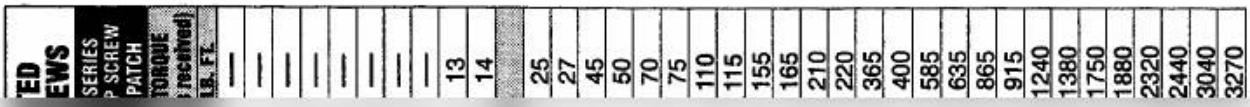
Standard - 5.00 x 16.00 - Solid, Rib.

Optional - 5.00 x 16.00 - Solid, Non-Marking, Rib.

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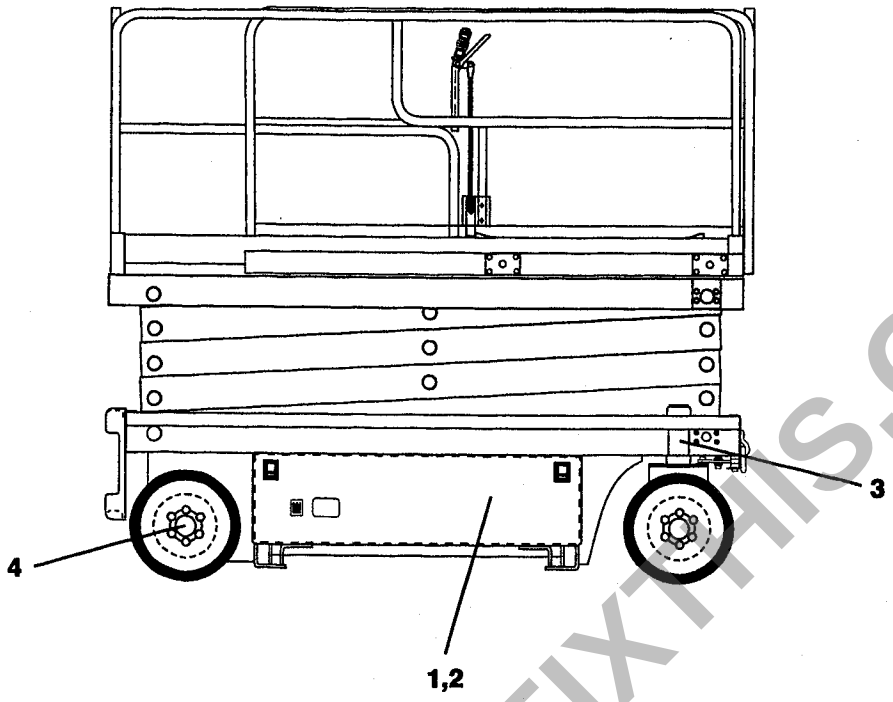


TED EWS SERIES P SCREW PATCH	TORQUE (received) LB. FT.
	—
	—
	—
	—
	—
	—
	—
	—
	13
	14
	25
	27
	45
	50
	70
	75
	110
	115
	155
	165
	210
	220
	365
	400
	585
	635
	865
	915
	1240
	1380
	1750
	1880
	2320
	2440
	3040
	3270

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INDEX NUMBER	COMPONENT	NO/TYPE LUBE POINTS	LUBE/METHOD	INTERVAL HOURS	COMMENTS
1	Hydraulic Oil	Fill Cap/Drain Plug	HO - Check HO Level HO - Change HO	10/1200	Check oil every 10 hrs. Change oil every 1200 hrs.
2	Hydraulic Filter Element	N/A	N/A	50/300	Change filter after first 50 hours of operation, then every 300 hours thereafter.
3	Kingpin Housing	2 Grease Fittings (1 each housing)	MPG - Pressure Gun	600	N/A
4	Wheel Bearings	2 - Rear Wheels	MPG - Repack	1200	N/A

Key To Lubricants:

MPG - Multi-Purpose Grease
HO - Hydraulic Oil - Mobilfluid 424, Kendall Hyken 052, BP Energol Type SHS46, or Mobil EAL224H

⚠ WARNING

TO AVOID PERSONAL INJURY, USE SAFETY PROP FOR ALL MAINTENANCE REQUIRING PLATFORM TO BE ELEVATED.

Notes:

1. Be sure to lubricate like items on each side of machine.
2. Recommended lubricating intervals are based on machine operations under normal conditions. For machines used in multi-shift operations and/or exposed to hostile environments or conditions, lubrication frequencies must be increased accordingly.
3. Lubricating intervals are calculated on 10 hours of machine operation per week.

Figure 1-2. Lubrication Chart - 1532E/1932E/2033E/2046E/2646E/2658E.

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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.

• Lift Cylinder Removal.

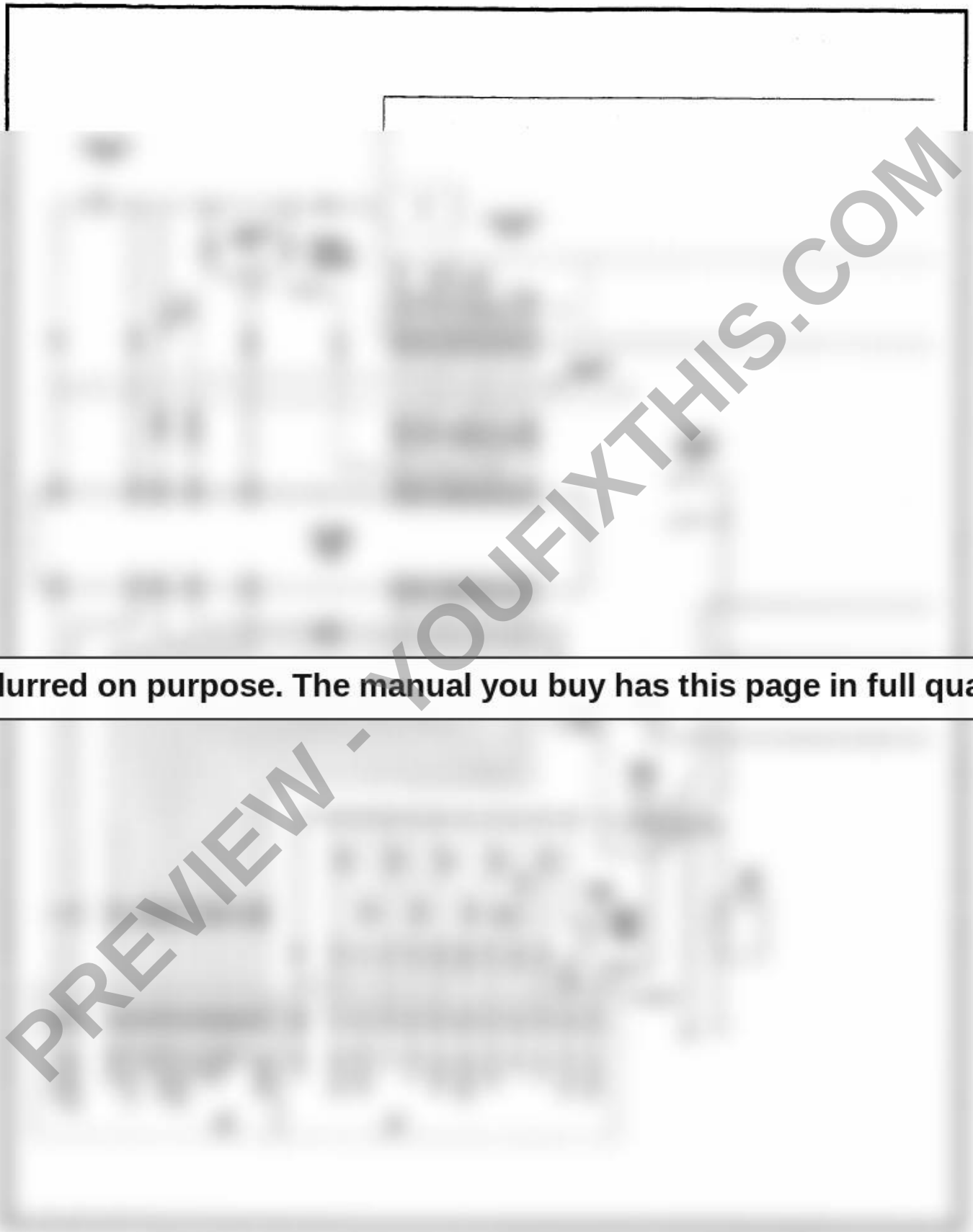
1. Place the machine on a flat and level surface. Start the motor and raise the platform. Shut down the engine and attach a suitable lifting device to the platform.
2. Remove the bolt and locknut securing the cylinder rod attach pin to the upper inner arm assembly. Using a suitable brass drift, drive 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.

• Lift Cylinder 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.

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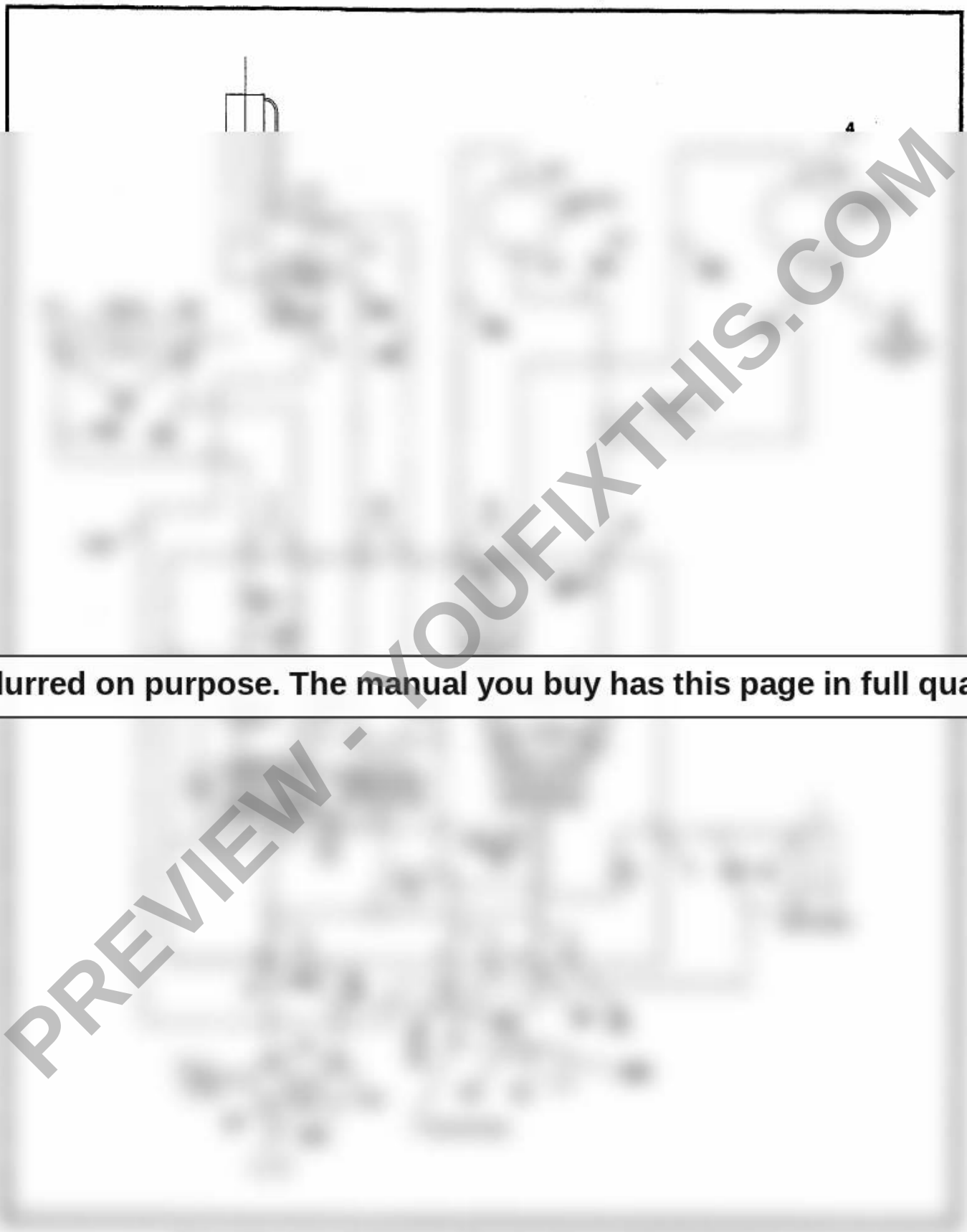
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Table 3-2. JLG SMART System™ Troubleshooting.

TROUBLESHOOTING CHART		
TROUBLE	**PROBABLE CAUSE**	**REMEDY**
Machine Functions.		
All machine functions do not operate.		
	Emergency Stop switch not activated.	Activate Emergency Stop switch and wait for flash of LED's.
	Joystick not in neutral position. (flash code 2-7)	Release joystick, then select function.
	Joystick potentiometer not centered.	Use analyzer to verify potentiometer is centered. (Accel should be 0) Replace joystick (JLG part no. 1600257 thru June 1997or 1600266 after June 1997) if not 0.
	Idle time-out. (flash code 1-1)	Select function again.
	Mux stream not being updated. (flash code 9-3)	
	• No power to the multiplexer card in the platform.	Use voltmeter to verify power on J4 of the multiplexer board.
	• Platform cable not connected to platform box or SMART System™ at base (J2).	Re-connect cable to platform box or J2.
	• Faulty multiplexer card.	Replace multiplexer card. (JLG part no. 0610123)
	Battery voltage out of range. (flash code 4-4)	
	• If battery charger is plugged in, voltage of batteries may be above 31 Volts.	Check voltage with VOM. Unplug battery charger.
	• Battery voltage too low.	Check voltage with VOM. Plug in battery charger.
	Line contactor open circuit. (flash code 3-1)	
	• Loose wiring connections on line contactor or at harness connection J1.	Check wire terminations on line contactor and harness connection at J1. Tighten connections as necessary.
	• Open coil on line contactor.	Clean corrosion from line contactor. Replace line contactor. (JLG part no. 3740117)
	• Faulty wiring at J1.	Repair or replace wiring as necessary.

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