Service & Maintenance Manual

Liftlux

Model

153-22

Prior to S/N 15676
except S/N 12750 to 14132

3121301

September 10, 2007

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1.8 PRESSURE SETTING

Cold temperatures have a significant impact on pressure readings. JLG Industries Inc. recommends setting the pressures with the operating temperature between 15°-20°C (59° - 68°F). JLG Industries Inc. also recommends the use of a calibrated gauge. The pressures may be set with a tolerence of ± 3 bar (43.5 psi).

Table 1-7. Pressure Settings

Main Relief	Steer Relief
190 bar (2756 psi)	175 bar (2538 psi)

1.9 CRITICAL STABILITY WEIGHTS

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY, SUCH AS BATTERIES OR SOLID TIRES, WITH ITEMS OF DIFFERENT-WEIGHT OR SPECIFICATION. DO NOT MODIFY UNIT IN ANY WAY TO AFFECT STABILITY.

Table 1-8. Critical Stability Weights

Component	Unit of Measure	
	kg	lb
Wheel and Tire Assembly (each)	200	440
Wheel/Tire and Drive Assembly (each)	246	542.3
Batteries - Standard (each)	24.6	54.2

1.10 MAJOR COMPONENT WEIGHTS

Table 1-9. Component Weights

Fixed Platform	810 kg (1,786 lbs)
Chassis with Foam Filled Tires	2,700 kg (5,952 lbs)
Arm Assembly	3,900 kg (8,598 lbs)
Lift Cylinder	270 kg (595 lbs)

1.11 LUBRICATION

Hydraulic Oil

Table 1-10. Hydraulic Oil

HYDRAULIC SYSTEM OPERATING TEMPERATURE RANGE	SAE VISCOSITY GRADE
-18° to -5°C (0° to +23°F)	10W
-18° to +100°C (0° to +210° F)	10W-20, 10W-30
+10° to +100°C (+50° to +210°F)	20W-20

NOTE: *Hydraulic oils must have anti-wear qualities at least to API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service. JLG Industries recommends Mobilfluid 424 hydraulic oil, which has an SAE viscosity index of 152.*

NOTE: *Aside from JLG recommendations, it is not advisable to mix oils of different brands or types, as they may not contain the same required additives or be of comparable viscosities. If use of hydraulic oil other than Mobilfluid 424 is desired, contact JLG Industries for proper recommendations.*

NOTE: *When temperatures remain below -7°C (20°F), JLG Industries recommends the use of Mobil DTE 13M.*

NOTE: *Aside from JLG recommendations, it is not advisable to mix oils of different brands or types, as they may not contain the same required additives or be of comparable viscosities. If use of hydraulic oil other than DTE 13M is desired, contact JLG Industries for proper recommendations.*

Table 1-11. Mobil Hydraulic Oil Specs

	Mobil 424	Mobil DTE 13M
ISO Viscosity Grade	10W-30	#32
Specific Gravity	29.0	0.877
Pour Point, Max	-46°C (-43°F)	-40°C (-40°F)
Flash Point, Min.	228°C (442°F)	166°C (330°F)
Viscosity		
at 40° C (104°F) at 100°C (212°F) Viscosity Index	55 cSt 9.3 cSt 152	33 cSt 6.5 cSt 140

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Scissor Arm Assembly Removal

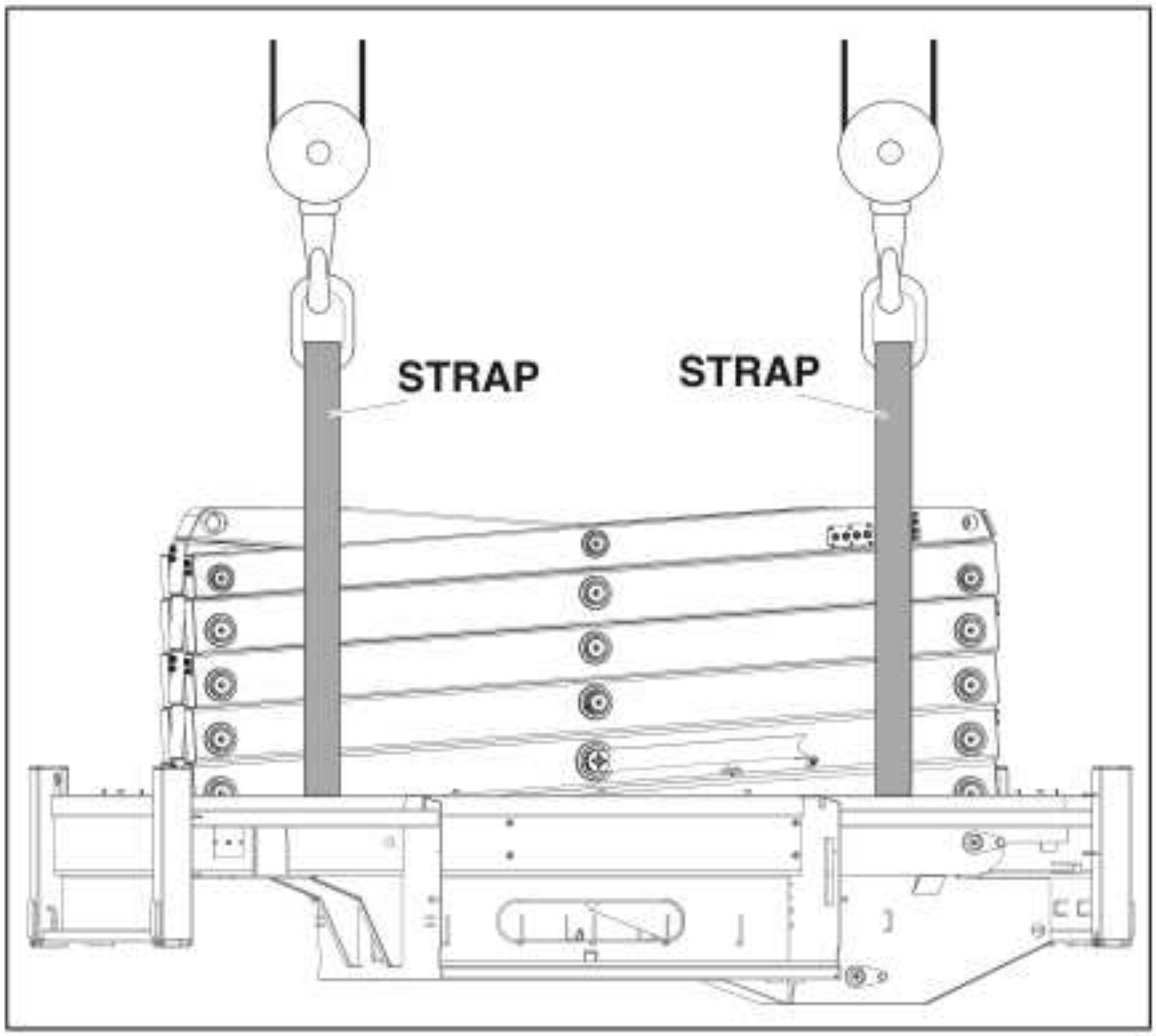
⚠ WARNING

EXTREME CAUTION MUST BE USED WHILE REMOVING ANY LARGE COMPONENTS. THESE COMPONENTS ARE EXTREMELY HEAVY AND CAN CAUSE SERIOUS INJURY OR DEATH IF NOT REMOVED CAUTIOUSLY.

NOTE: *It is recommended to remove the scissor arm assembly as a whole unit.*

1. Disconnect all hoses and wires connecting the scissor assembly to the chassis and platform.
2. Remove the platform from the scissor arm assembly. (See Platform Removal procedures on pages 3-31 and 3-32)
3. Remove the arm guards. (See Arm Guards removal instructions on the previous page)
4. Secure scissor arm assembly with two lifting straps attached to an overhead lifting device.

NOTE: *Scissor arm assembly weighs approximately 3234 kg (7,130 lbs). Straps and lifting device must be capable of lifting the scissor assembly.*



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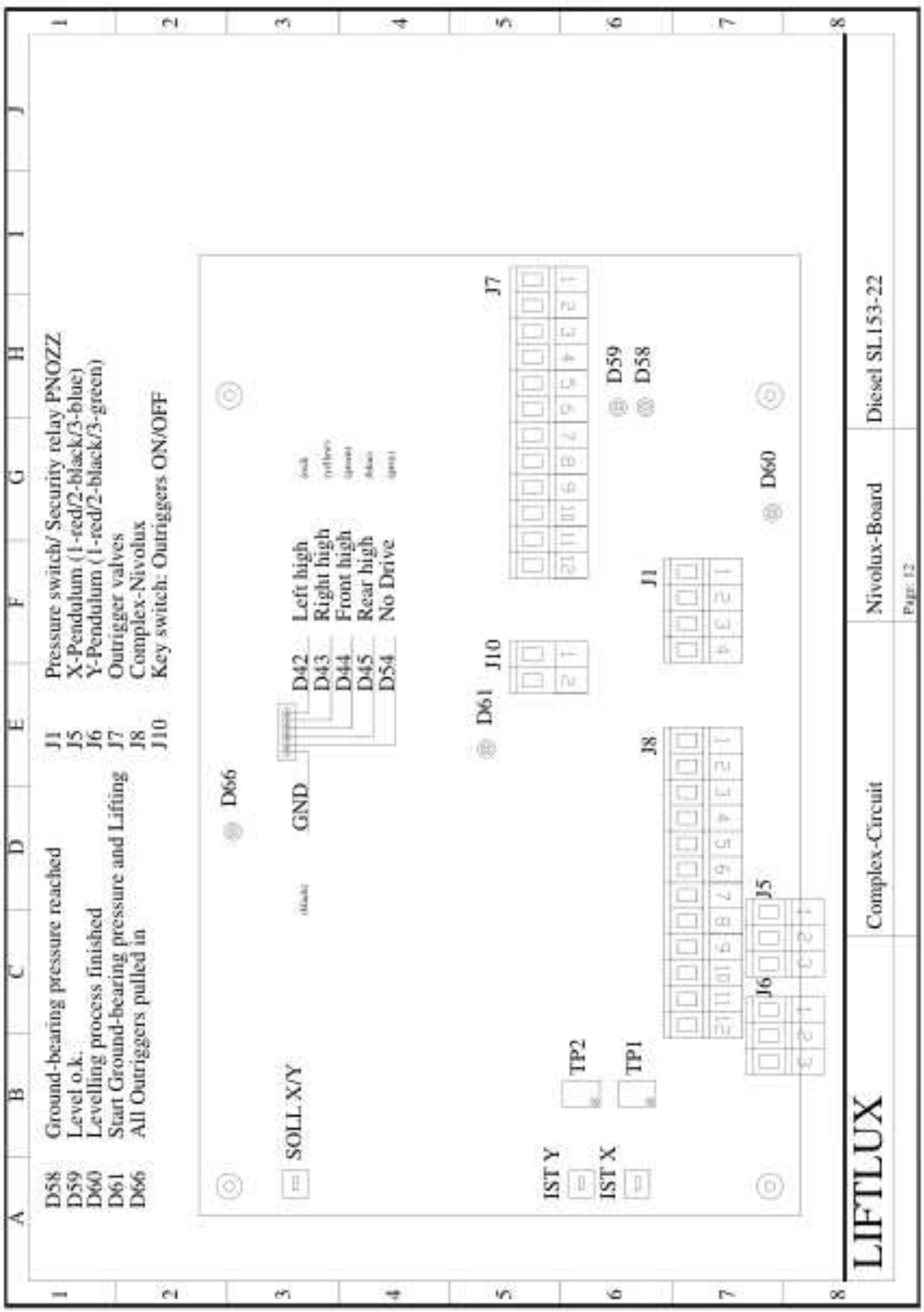


Figure 6-30. Electrical Schematic - (Sheet 13 of 14)

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