An Oshkosh Corporation Company

Service and Maintenance Manual

Model

530LRT

Prior to SN E200000675,
Including
1200027648 through 1200027657

P/N - 3121708

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ANSI

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Tires

Size	Ply Rating	Foam Fill Tire Assembly Rating	Wheel Nut Torque
12 x 16.5 Foam Filled (Non-Marking)	10	90 PSI @ 8,000 lb (3700 Kg) - Static Load	170 ft. lb. (230 Nm)
12 x 16.5 Foam Filled	10	90 PSI @ 8,000 lb (3700 Kg) - Static Load	170 ft. lb. (230 Nm)
IN395/45/D20 Foam Filled (Non-Marking)	14	90 PSI @ 14,740 lb (6700 Kg) - Static Load	170 ft. lb. (230 Nm)
IN395/45/D20 Foam Filled	14	90 PSI @ 14,740 lb (6700 Kg) - Static Load	170 ft. lb. (230 Nm)

Critical Stability Weights

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION (FOR EXAMPLE: FILLED TIRES, ENGINE) DO NOT MODIFY UNIT IN ANY WAY TO AFFECT STABILITY.

Component	530LRT
Wheel and Tire (each) 12x16.5 - Foam Filled 395/45/D20 - Foam Filled	 328 lb (149 kg) 381 lb (173 kg)
Engine Only (Kubota - Diesel)	209 lb (95.1 kg)
Engine Only (Kubota - Gas/LP)	158 lb (71.4 kg)
Battery	66 lb (30 kg)

Major Component Weights

Component		Weight
Platform	Single Ext: Dual Ext: Mega:	890 lb (404 kg) 890 lb (404 kg) 1,080 lb (490 kg)
Platform Extension (each)		290 lb (132 kg)
Arm Assembly- (Includes Lift Cylinders):		6,760 lb (3066 kg)
Chassis:		6,863 lb (3113 kg)
Chassis Counterweight:		1,005 lb (456 kg)
Chassis with Foam Filled Tires:		8,755 lb (3,971 kg)

1.2 ENGINE SPECIFICATIONS

Kubota (D1305-E4B - T4F - Diesel)

Emissions		EPA - Tier 4 Final
Fuel Type:		Diesel: - Low Sulfur (<500 ppm) - Ultra Low Sulfur (15 ppm) *(Recommended)* - up to 5% biodiesel
No. of Cylinders		3
Oil Pan Capacity		1.51 Gal. (5.7 L)
Engine RPM Control		Mechanical
Low RPM Set		1200 RPM
High RPM Set		2600 RPM
Alternator		40 Amp, 12V, Belt Drive
Battery		112 Amp-Hour, 950 Cold Cranking Amps, 12 VDC
Fuel Consumption:	Low RPM High RPM	0.41 GPH (1.5 lph) 2.0 GPH (7.6 lph)
Displacement		1.261 L (77 cu. in.)
Horsepower		24.8 Hp (18.5 Kw) @ 2600 RPM
Torque Rating		59.1 Ft. lb. (80.1 Nm) @ 1700 rpm

Kubota (D1305-E3B - T4i - Diesel)

Emissions		CARB/EPA - Tier 4 - 2014
Fuel Type:		Diesel: - Low Sulfur (<500 ppm) - Ultra Low Sulfur (15 ppm) *(Recommended)* - up to 5% biodiesel
No. of Cylinders		3
Oil Pan Capacity		1.51 Gal. (5.7 L)
Engine RPM Control		Mechanical
Low RPM Set		1200 RPM
High RPM Set		3000 RPM
Alternator		40 Amp, 12V, Belt Drive
Battery		112 Amp-Hour, 950 Cold Cranking Amps, 12 VDC
Fuel Consumption:	Low RPM High RPM	0.41 GPH (1.5 lph) 2.0 GPH (7.6 lph)
Displacement		1.261 L (77 cu. in.)
Horsepower		29.1 Hp (21.7 Kw) @ 3000 RPM
Torque Rating		59.1 Ft. lb. (80.1 Nm) @ 2000 rpm

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Leveling Jack Directional Valve

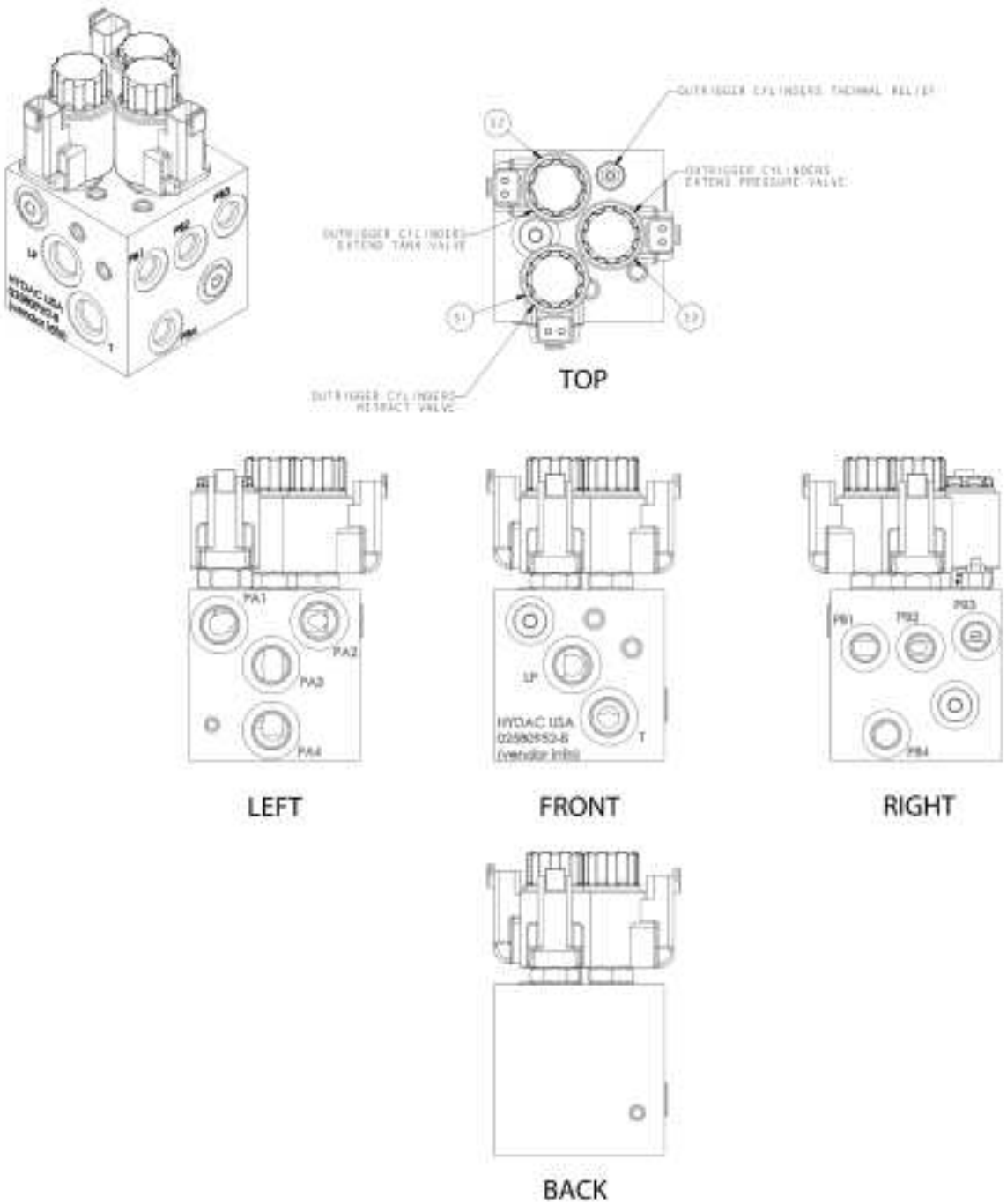


Figure 4-4. Leveling Jack Directional Valve

NOTE: *For valve torque specs see Table 4-4 on page 4-11.*
For internal hydraulic circuits, refer to Section 6.7, Hydraulic Schematics.

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Service - Voltage Reading

⚠ CAUTION

DO NOT PIERCE WIRE INSULATION TO TAKE VOLTAGE READINGS.

It has been common practice in electrical troubleshooting to probe wires by piercing the insulation with a sharp point. This practice should be discouraged when dealing with the AMPSEAL plug assembly, or any other sealed connector system. The resulting pinholes in the insulation will allow moisture to invade the system by traveling along the wire strands. This nullifies the effectiveness of the connector seals and could result in system failure.

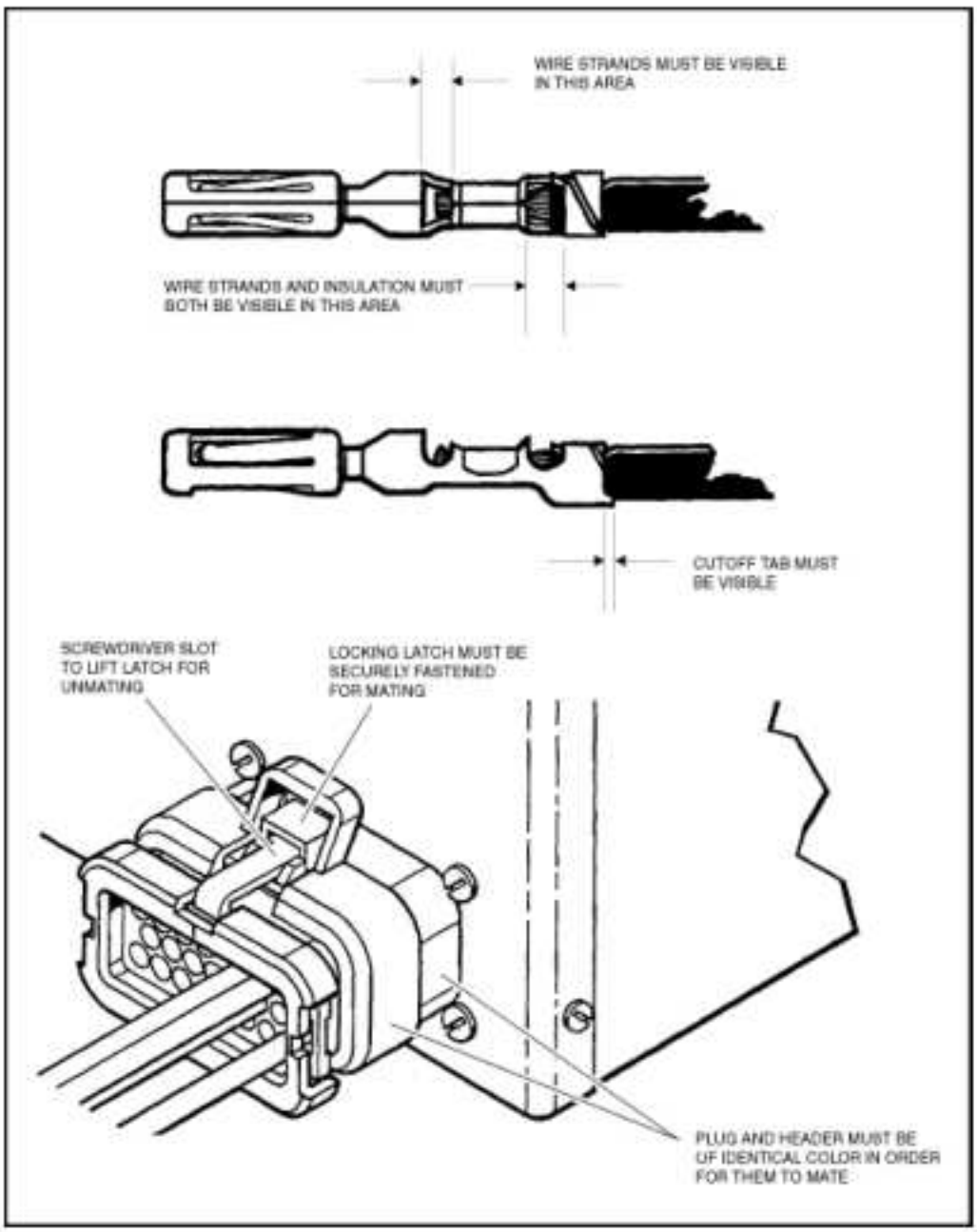
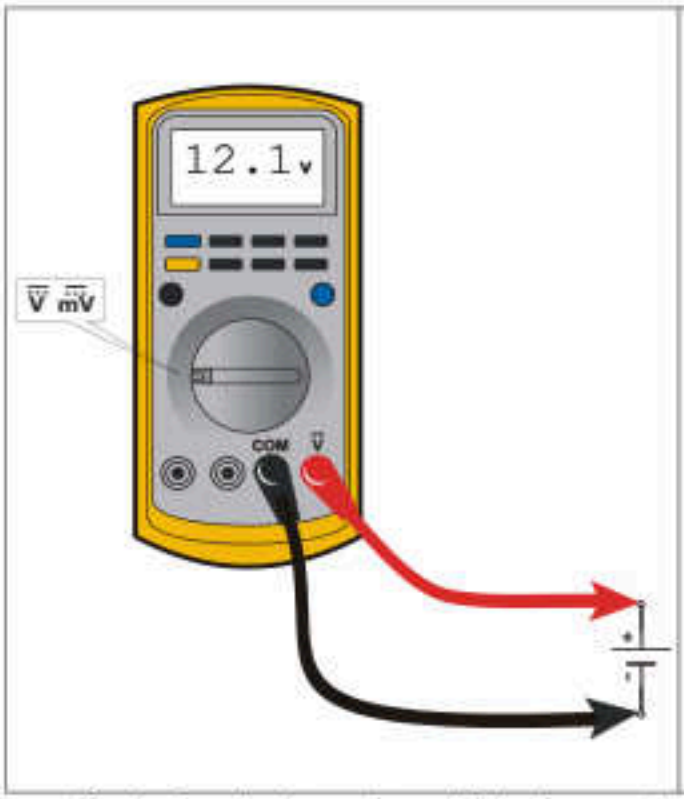


Figure 6-7. Connector Installation

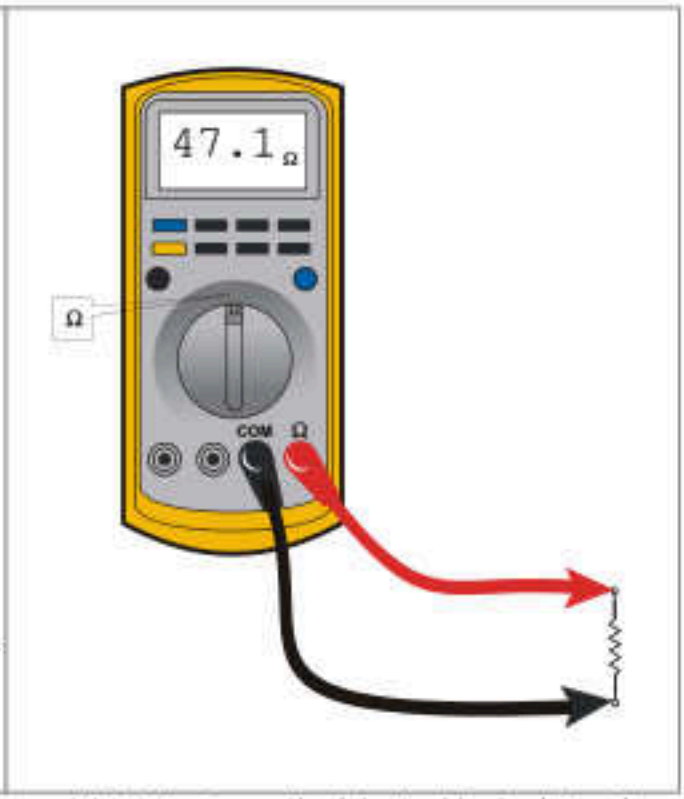
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Voltage Measurement



- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

Resistance Measurement



- First test meter and leads by touching leads together. Resistance should read a short circuit (very low resistance)
- Circuit power must be turned OFF before testing resistance
- Disconnect component from circuit before testing
- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

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