

Job Safety Analysis

Use These Forms Before You Begin Any Job to Alert You of Any Hazards That May Exist

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LR 1300 Crawler Crane Disassembly

Customer Name:	Job Location:	Unit #:	Job#:
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REQUIRED PERSONAL PROTECTION EQUIPMENT:	MSDS(s) ASSOCIATED WITH THE JOB:
Hard hat, safety glasses, gloves, steel-toed boots, fall protection, JLG & all other required site-specific personal protective equipment.	Chemicals are usually used on the crane or stored on Service trucks on the MSDS Online database on all company-issued cell phones.

To improve the readability and comprehension of this field document, we have detailed all common hazards and the recommendations for safe work at the beginning of this JSA. It is understood and assumed that any or all of these hazards may become relevant at any time during the assembly of this crane.

This JSA is to be used in conjunction with the operator's manual. If there is a discrepancy between the two, the operator's manual takes precedence.

Common Hazards	Safe Job Practices
<ul style="list-style-type: none"> Slips, Trips, and Falls Lack of stability 	<ul style="list-style-type: none"> Use of a personal fall protection system is mandated when working where employees are exposed to falls greater than 6 feet. JLG shall be utilized when working on the crane where tie-off is unavailable or feasible, especially when setting counterweights and baskets. Keep ladders, walking surfaces, stairs, and stepping surfaces free of objects and obstacles. Only step on ladders, stairs, walking, and stepping surfaces with sufficiently clear height. Only step on ladders, stairs, walking, and stepping surfaces with clean shoes. Keep ladders, stairs, walking, and stepping surfaces free of heavy dirt, snow, ice, and mud. Stepping on ladders, stairs, walking surfaces, and stepping surfaces by persons, including tools and equipment, weighing more than 330lbs, is prohibited. Do not step on damaged ladders, stairs, walking surfaces, and stepping surfaces, and replace them immediately. Do not trip over attachment parts. Personnel must wear an approved fall arrest system and protective equipment before performing any work on the crane structure Personnel must hook themselves to the hook points and safety ropes with an approved fall arrest system to prevent falling.

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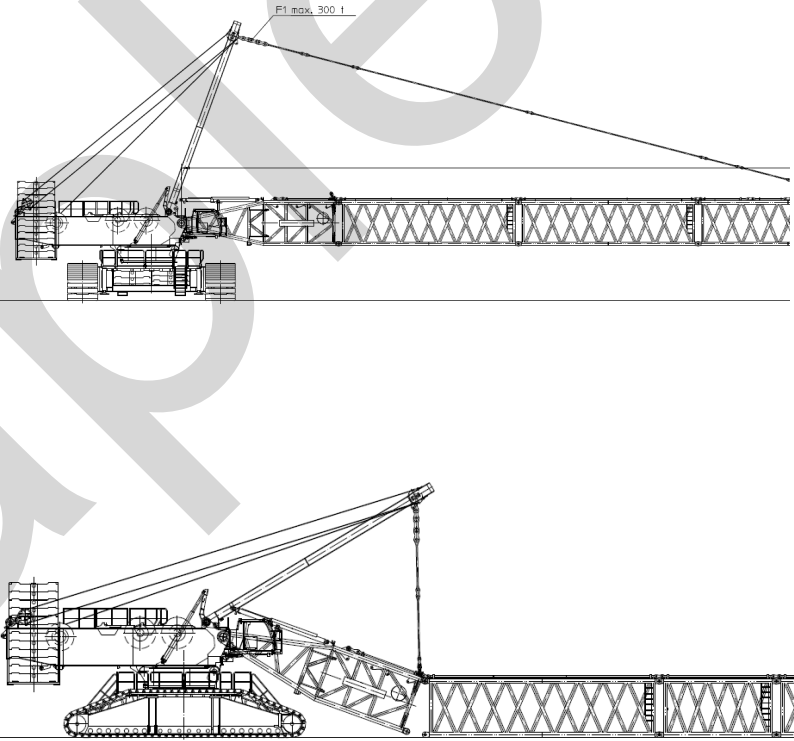
Common Hazards	Safe Job Practices
<ul style="list-style-type: none">• Crushing Injury Hazard	<ul style="list-style-type: none">• Barricade all accessible areas to the crane so personnel cannot be struck or crushed when upper works are swung.• Do not climb on or off the crane while the upper works are swung or the crane is being traveled.• Signal operator that you need to climb on or off the crane.• Operator: do not swing or travel while personnel climbs on or off the crane. Stop swing and travel motions. Apply the swing brake and turn on the Travel Brake.• Use of dedicated spotters and signal persons when flying objects with cranes.• Use of tag lines when a rotating load may become a hazard.
<ul style="list-style-type: none">• Struck By/ Caught Between/Pinch Point Hazards	<ul style="list-style-type: none">• Hard Hats and Safety Glasses shall be worn at all times during the assembly/disassembly of this crane.• Never handle wire rope with bare hands. Always wear heavy-duty gloves to prevent being cut by broken wires.• Use extreme care when handling coiled pendants. The stored energy can cause coiled pendants to uncoil quickly with considerable force.• Do not attempt to maintain or repair any part of the crane while the engine is running unless necessary.• If the engine must be run, keep your clothing and all parts of your body away from moving parts. <i>Maintain constant verbal communication between the person in control and the person performing maintenance or repair procedures.</i>• Do not use your hands to check for air and hydraulic oil leaks• Relieve pressure before disconnecting air, coolant, and hydraulic lines and fittings.• Do not attempt to lift heavy components by hand. Use a hoist, jacks, or blocking to raise components.• Store tools, oil cans, spare parts, and other necessary equipment in toolboxes. Do not allow these items to lie loose in the operator's cab or on walkways and stairs.• Use of dedicated spotters to direct and signal all vehicle traffic.

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Common Hazards	Safe Job Practices	
<ul style="list-style-type: none">• Collapsing Boom Hazard	<ul style="list-style-type: none">• Select a suitable location for boom disassembly. It must be firm, level, and free of obstructions.• It should have enough open space to accommodate the crane, the boom length, and - if required - the movement of an assist crane or other equipment.• If possible, secure the area to keep unauthorized personnel and vehicles away.• Do not remove the bottom connecting pins from any boom section when straps support the boom• Do not remove bottom connecting pins from any boom section when the boom point is resting on the ground and handling pendants are slack• Do not remove strap connecting pins until straps are fully lowered into supports <p>Never work or stand inside the boom unless it is lowered and securely blocked, as shown.</p>	

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Common Hazards	Safe Job Practices
<ul style="list-style-type: none"> • Ground Failure / Stability 	<ul style="list-style-type: none"> • Hazards: Inadequate ground support, improper matting • Controls: - Verify ground bearing capacity meets LR1300 requirements - Use engineered matting/cribbing - Ensure level setup for crane and assist crane •
<ul style="list-style-type: none"> • CRITICAL ASSEMBLY REQUIREMENTS 	<ul style="list-style-type: none"> • All work must follow LR1300 manufacturer erection drawings and procedures • Verify configuration matches intended load chart • Confirm all pins, retainers, and connections are properly installed • Maintain minimum clearances around counterweights
<ul style="list-style-type: none"> • Rigging Failure 	<ul style="list-style-type: none"> • Rigging shall be inspected per applicable OSHA/ASME standards, at least daily and before use. • Examples of unserviceable rigging include bird caging, kinks, and broken wires.
<ul style="list-style-type: none"> • ASSIST CRANE REQUIREMENTS 	<ul style="list-style-type: none"> • Assist crane must be sized based on LR1300 component weights and lift radii • Verify lift plan before execution • Ensure proper ground support for assist crane • Use qualified operator and signal personnel

Note: At no time will a trainee, apprentice, or an oiler operate any crane during the assembly, reconfiguration, and disassembly process or while the crane is in bypass.

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Crane Assembly

BASIC JOB STEPS	POTENTIAL HAZARDS	SAFE JOB PRACTICES
<ul style="list-style-type: none"> Assist Crane assembly and Set-up (If needed) 	<p>See Common Hazards Above</p>	<ul style="list-style-type: none"> See Safe Job Practices Above <p>Refer to the operator's manual for detailed procedures.</p> <ul style="list-style-type: none"> Monitor levels. Ensure the cribbing and base area is level. Use of designated spotters to direct truck drivers. An Assist crane with suitable Load-bearing capacity must be available, and the location level
<ul style="list-style-type: none"> Check all control functions kick outs, install frog legs, and remove from operation 	<p>See Common Hazards Above</p> <ul style="list-style-type: none"> *Slips Trips and Falls *Dropped Loads *Strains and Sprains 	<p>See Safe Job Practices Above</p> <p>Refer to the operator's manual for detailed procedures.</p>
<ul style="list-style-type: none"> Remove cheek and counterweights as needed Boom down the block as per takedown procedures. 	<p>See Common Hazards Above</p> <p>Tipping Hazard!</p> <p>Falls from Heights!</p>	<p>See Safe Job Practices Above</p> <p>Refer to the operator's manual for detailed procedures.</p>

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BASIC JOB STEPS	POTENTIAL HAZARDS	SAFE JOB PRACTICES
<ul style="list-style-type: none"> Remove two block and connect the fallback support winch (boat winch) Boom down and un-rev Block as per the revving diagram. 	<p>See Common Hazards Above</p> <ul style="list-style-type: none"> *Slips Trips and Falls *Dropped Loads *Strains and Sprains 	<p>See Safe Job Practices Above</p> <p><i>Refer to the operator's manual for detailed procedures.</i></p>
<ul style="list-style-type: none"> Remove electrical and load wire. 	<p>See Common Hazards Above</p> <ul style="list-style-type: none"> *Slips Trips and Falls *Dropped Loads *Strains and Sprains 	<p>See Safe Job Practices Above</p> <p><i>Refer to the operator's manual for detailed procedures.</i></p>
<ul style="list-style-type: none"> As per manufacturer recommendations, disconnect backstay pendants and lay down Queens post. Remove jib if installed. <p>HOLD POINT _____ Check Backstays.</p>	<p>See Common Hazards Above</p> <p>Tipping Hazard!</p> <p>Falls from Heights!</p>	<p>See Safe Job Practices Above</p> <p><i>Refer to the operator's manual for detailed procedures.</i></p>

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BASIC JOB STEPS	POTENTIAL HAZARDS	SAFE JOB PRACTICES
<ul style="list-style-type: none"> Always following recommendations on counter leveraging length and F1 pressure max kips. Remove boom sections according to the build sheet. Prep and load <p>HOLD POINT _____ Check Build Sheet.</p>	<p>See Common Hazards Above</p> <p>Tipping Hazard!</p> <p>Falling Mast Hazard!</p> <p>Strains and Sprains</p>	<p><i>See Safe Job Practices Above</i></p> <p><i>Refer to the operator's manual for detailed procedures.</i></p>
<ul style="list-style-type: none"> The frog legs are up and not supported per manufacturer recommendations. <p>HOLD POINT _____ Check Chains.</p> <ul style="list-style-type: none"> Remove counterweight holding chains. Remove and load counterweight trays and counterweights. 	<p>See Common Hazards Above</p> <p>Falling Mast Hazard!</p> <p>Mast Damage!</p> <p>Swinging Straps Hazard!</p> <p>Falling Mast Hazard!</p>	<p><i>See Safe Job Practices Above</i></p> <p><i>Refer to the operator's manual for detailed procedures.</i></p> <p><i>Read and thoroughly understand mast-raising instructions.</i></p>
<ul style="list-style-type: none"> Roll the SA frame backward to ready for the disconnect of the butt section. Remove the butt section, pins, hydraulic connections, and pennant hookups. Remove SA frame, pins and connections. <p>HOLD POINT _____ Check pins.</p>	<p>See Common Hazards Above</p> <p>Falling Mast Hazard!</p> <p>Mast Damage!</p> <p>Swinging Straps Hazard!</p> <p>Falling Mast Hazard!</p>	<p><i>See Safe Job Practices Above</i></p> <p><i>Refer to the operator's manual for detailed procedures.</i></p> <p><i>Read and thoroughly understand mast-raising instructions.</i></p>

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<ul style="list-style-type: none"> Then raise the house and tracks off the ground. With house jacks With correct rigging, remove tracks and all connections. Unlock pins and remove from house remove hydraulic lines and electrical connections <p>HOLD POINT _____ Check pins.</p>	<p>See Common Hazards Above</p> <ul style="list-style-type: none"> *Slips Trips and Falls *Dropped Loads *Strains and Sprains 	<ul style="list-style-type: none"> See Safe Job Practices Above <p><i>Refer to the operator's manual for detailed procedures.</i> <i>Use of designated spotter to direct truck drivers</i></p> <p><i>Monitor levels. Ensure the cribbing and base area is level.</i></p>
<ul style="list-style-type: none"> Remove Tracks from House Remove walkways and guardrails Remove cwts per manufacturer 	<p>See Common Hazards Above</p> <ul style="list-style-type: none"> *Slips Trips and Falls *Dropped Loads *Strains and Sprains 	<ul style="list-style-type: none"> See Safe Job Practices Above <p><i>Refer to the operator's manual for detailed procedures.</i> <i>Use of designated spotter to direct truck drivers</i></p> <p><i>Monitor levels. Ensure the cribbing and base area is level.</i></p>
<ul style="list-style-type: none"> Clean up area and load out all remaining sections of boom and cwts 	<p>See Common Hazards Above</p> <p>Slips, equipment movement, unstable ground</p>	<ul style="list-style-type: none"> See Safe Job Practices Above
<ul style="list-style-type: none"> Depart 	<p>See Common Hazards Above</p>	<ul style="list-style-type: none"> See Safe Job Practices Above

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Additional Comments (include any other observations or comments on this job task below)

All personnel shall review the job safety analysis before work activity and sign below. The perimeter of the work area shall have yellow caution or red warning tape installed to prevent any unnecessary jobsite personnel from being exposed to these hazards.

PRINT

SIGNATURE

PRINT	SIGNATURE

Assembly/Disassembly Director: _____ Date: _____