



Customer Outreach
PO Box 8338
Saint Joseph, MO 64508

product.safety@altec.com
connect.altec.com/login

Phone 1-877-GO ALTEC

This campaign applies to your vehicle. Refer to the provided list.

Dear Altec Owner,

Altec Industries, Inc. has issued a customer satisfaction campaign as described in the included Service Information Letter (SIL). According to our records, you own one or more units this applies to.

Refer to the included letter for the items covered under the Altec Warranty Policy. If you had this repair performed before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this letter.

Compare your unit's identifying information with the provided list to verify your unit is affected. You may also contact Altec or view your fleet through Altec Connect to determine if there are any other outstanding notices.

If you have sold or retired the unit, update the records through Altec Connect. If you have leased this equipment to another person or company, you are required by Federal Law to forward a copy of this notice to the lessee by first class mail within ten (10) days of the receipt of this notice.

We regret this inconvenience; however, we are taking this action in the interest of your safety and continued satisfaction with Altec products.

Thank you for your immediate attention on this important matter.



A Class & A Class Elevator Platform Retention

Units Affected: Certain A Class and A Class Elevator model units built from June 1997 to November 2023. Verify your unit is affected by reviewing the attached list or accessing Altec Connect.

Background: Altec has updated the preventive maintenance procedures for the boom tip pin retaining plate on affected units.

Customer Action: Add the included manual addendum to the Maintenance Manual. This addendum includes all updated manual procedures. Make sure the boom tip pin retaining plate cap screws are inspected at the next regularly scheduled maintenance interval according to the updated Preventative Maintenance and Inspection Checklist.

The addendum includes a Preventive Maintenance and Inspection Checklist to replace the one currently in the manual. There are two checklists included with this mailing: one for elevator units and one for non-elevator units. Select the correct checklist for your unit and discard the other.

Subsequent damage due to failure to perform the required action(s) in the time period allowed will not be covered by warranty.

Requirements: Every affected unit requires the manual addendum be added to the unit's Maintenance Manual. If you would like an updated copy of the entire Maintenance Manual at no charge, scan the [QR code](#) to order one. This option is only valid until February 29, 2024.



Completion and Warranty: This notice will be marked complete upon mailing. No further action is required. There is no inspection or repair labor for this notice.

If you would like a new manual at no cost to you, scan the [QR code](#) to place an order before February 1, 2024.

Altec Contact Info:

Altec Connect: connect.altec.com/login



Phone: 1-877-GO ALTEC (1-877-462-5832) | Options: 1 - Parts; 2 - Shop Service; 3 - Mobile Service; 4 - Technical Support; 5 - Global Rental Service Request; 6 - Chassis Repair

Altec Use Only	
Inspection labor	0.0 hr
Repair labor	0.0 hr
Account #	010.1093.43156.000.9350.000
Travel	Not included
NHTSA code	90
Prime fail P/N	NA
Doc ref	NA

Altec Use Only			
Description	Part No.	Qty	Warranty
Unit specific maintenance manual	Varies	1	Until 2-1-24

Manual Addendum — Boom Tip Retaining Plates

Section 4 — Preventive Maintenance and Inspection

Pins and Pin Retainers

Boom Tip Pin Retaining Plates

Both ends of the boom tip pin are secured by a retaining plate and two cap screws. When inspecting the boom tip pin, make sure the cap screws installed through the retaining plate are secure.

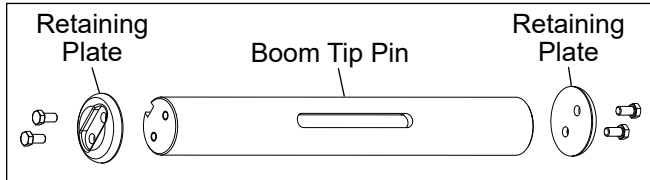


Figure 4.XX — Retaining Plate and Cap Screws

Check the retaining plate cap screws to be sure they are torqued to 32 foot-pounds (43 N•m) or 90 percent of the normal installation torque of 35 foot-pounds (47 N•m) as recommended by the Preventive Maintenance and Inspection Checklist.

	Foot-Pounds (N•m)
Boom tip pin retaining plate cap screws	35 (47)

Figure 4.XX — Torque Value

Section 6 — Mechanical Systems

Platform and Leveling System



Injury and property damage can result from unexpected platform movement. Tilt the platform to a nearly level position before moving the platform leveling control to Auto.

Injury and property damage can result from unexpected platform movement. Allow room for platform movement when the leveling control is moved to Auto.

NOTICE

Damage to the unit can result if hoses are not connected properly. Mark the platform leveling hoses before they are disconnected.

Removal

1. Position the unit on a level surface, apply the parking brake, and chock the wheels.
2. Release the pressure from each circuit in the hydraulic system by shifting the lower control handle for each function in both directions several times. Also, shift the control handles at the platform for the upper tool circuit functions in both directions several times.
3. Remove the covers at the platform.
4. Support the platform so that it may be removed after it is disconnected from the boom tip.
5. Remove the access covers near the boom tip.
6. Disconnect the hoses from the leveling system.
7. Disconnect the hoses and air lines that are routed from the boom tip to the platform assembly.
8. Remove the jib/winch assembly cover.
9. Disconnect the hoses that are connected to the jib/winch assembly.
10. Remove and discard the cap screws that secure the retaining plate on the end of the boom tip pin on the platform side (refer to Figure 6.XX). When servicing the boom tip pin or retaining plates, do not reuse the retaining plate cap screws. Once a cap screw is removed, the nylon patch on the threads will be distorted. This distortion may not allow the cap screw to tighten properly if reused. Use new cap screws of the proper length with nylon patch when reinstalling the retaining plate.

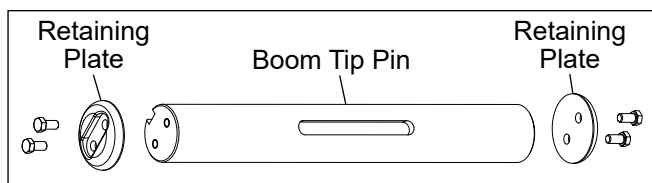


Figure 6.XX — Retaining Plate and Cap Screws

11. While supporting the platform, slide the platform pivot arm, mounting bracket, platform, and all of the components connected to them off the shaft.
12. Disconnect and remove the jib tilt cylinder.
13. Remove and discard the cap screws that secure the retaining plate on the end of the jib/winch side of the boom tip pin (refer to Figure 6.XX).
14. Support and remove the jib/winch assembly.
15. Remove the cap screws that secure the leveling system to the end of the fiberglass.
16. Support and remove the leveling system from the end of the fiberglass.

Installation

1. Insert the leveling system into the end of the fiberglass and secure it with the cap screws, washers, and self-locking nuts. Torque the cap screws to 75 foot-pounds (95 N•m).
2. Install the jib/winch assembly on the boom tip pin with the shims, retaining plate, and new cap screws. Torque the cap screws to 35 foot-pounds (47 N•m).
3. Install the jib tilt cylinder.
4. Install the platform assembly on the boom tip pin with the shims, retaining plate, and new cap screws. Torque the cap screws to 35 foot-pounds (47 N•m).
5. Connect the hoses and air lines to the jib/winch assembly, platform assembly, and the leveling system.

6. If any fluid leaked from the leveling valve, measure the fluid for the proper level (refer to Section 5 under leveling valve) and add if necessary.

7. Replace the covers.

8. Move the platform leveling control to Manual. Operate the tilt control and check for proper operation.

9. Carefully move the leveling control to Auto and check for proper operation.

10. Operate the unit through all boom angles and rotation from the lower controls while checking for leaks and proper operation. Operate the winch while checking for leaks and proper operation.

11. Operate the unit through all boom angles and rotation from the upper controls while checking for leaks and proper operation. Operate the jib and winch while checking for leaks and proper operation.

12. Perform a structural test as described in Section 9.

Appendix — Preventive Maintenance and Inspection Checklist

Refer to the attached checklists: one for elevator units and one for non-elevator units. Retain the correct checklist for your unit and discard the other.

Preventive Maintenance and Inspection Checklist

Vehicle No. _____ Location _____ Date _____

Service Request # _____ Model # _____ Serial # _____

Odometer _____ Hours Meter _____ Inspector _____

Open Altec Product Notices _____

Check for Altec Product Notices or other applicable documents provided by Altec for servicing the unit by calling 1-877-GO ALTEC (1-877-462-5832) or by contacting altec.connect@altec.com.

Perform all inspections, adjustments, repairs, and lubrication according to the specifications in all unit maintenance and/or service manuals. If tracking PTO hours using an approved method or device, follow the recommended hourly maintenance intervals. If performing maintenance based upon a calendar based schedule, follow the recommended monthly intervals. The required items apply to both tracking methods.

Intervals

- | | | |
|---|--|--|
| <input type="checkbox"/> Prior to placing the unit in service | <input type="checkbox"/> 85 PTO hours/1 month | <input type="checkbox"/> 500 PTO hours/6 months |
| <input type="checkbox"/> Required maintenance | <input type="checkbox"/> 1,000 PTO hours/1 year | <input type="checkbox"/> 2,000 PTO hours/2 years |
| <input type="checkbox"/> 4,000 PTO hours/4 years | <input type="checkbox"/> Major structural inspection | |

Symbols

- | | | |
|-------------------------|----------------------------|------------------------------------|
| ✓/O = Okay or completed | C = Corrected by inspector | R = Repair or replacement required |
| U = Unsafe to operate | N/A = Not applicable | |

Prior to Placing the Unit in Service		
	Perform the Preoperational Inspection (refer to the Operator's Manual)	Rotation Bearing
		Turntable tilt measurement ² : _____
85 PTO Hours/1 Month		
	Perform the Preoperational Inspection (refer to the Operator's Manual)	Lubrication
		Rotation bearing ball race
		Lower boom cylinder spherical bearings
		Upper boom cylinder spherical bearings
		Elevator base and pedestal cylinder pivot bearings
		Elevator arm link pivot pins
		Gearbox (if applicable)
		Rotation bearing gear teeth and pinion gear teeth
500 PTO Hours/6 Months		
	Perform the 85 hour/1 month inspection	All Electrical
		Components and wiring (clearances, tightness, support, no insulation damage)
		Connections (secure, no corrosion)
		Unit Mounting
		Subbase mounting (fasteners secure, welds intact, no cracks)
		Subbase structure (welds intact, no cracks)
		Pedestal mounting (fasteners secure, welds intact, no cracks)

A Class elevator

Filters		Rotation Bearing and Gearbox	
	Change return line filter		Motor mounting cap screws secure
Outriggers			Eccentric ring lock in place and secure
	Mounting (welds intact, no deformation or cracks)		No leaks
	Aerial device/outriggers selector operation		Operation (smoothness and noise level)
	Outrigger interlock system operation		Pinion gear teeth
	Operation (holding without drift)		Rotation bearing gear teeth
	Structures (welds intact, no deformation or cracks)		Gearbox internal lost motion
	Pins and retainers secure		Rotation bearing inspection and measurement [<i>after</i> 0.050" (1.27 mm) increased wear from initial measurement] ²
	No leaks		
Lower Tools Circuit			
	Operation		Rotation bearing cap screw visual inspection
	No leaks		Rotation gearbox mounting cap screw visual inspection
	Quick disconnect couplers (condition, operation, dust caps)	Lower Boom Cylinder	
			Pivot bearings secure within cylinder eyes
Hydraulic System			Pin retainers secure
	Pump compensator _____		Operation
	Pilot pressure _____		No leaks
	Standby pressure _____		Chromed rod (condition)
	Tool system pressure _____	Lower Boom	
Lower Controls			Structure (welds intact, no deformation or cracks)
	Operation (metering, proper direction)		Fasteners secure
	Engine start/stop switch operation		Insulator fasteners secure
	Lower/upper control operation		Insulator (condition, clean, undamaged)
	Elevator control valve (operation, no leaks)		Covers
Elevator Lift Cylinder			No leaks
	Self-aligning pivot bearings secure within cylinder eyes	Elbow	
	Operation		Lower scissor link anchor pin (retainer condition, cap screws secure)
	No leaks		
	Chromed rod condition		Elbow pivot pin (retainer condition, cap screw secure)
	Barrel condition		Eccentric bushings (cap screws and rollpins in place)
Pedestal			Upper boom drive mechanism anchor pins (retainer condition, cap screws secure)
	Structure (welds intact, no deformation or cracks)		
	No leaks	Upper Boom Cylinder	
	Covers		Pin retainers secure
	Rotary joint mounting cap screws (secure), restraint bracket secure		Operation
			No leaks
	Slip ring mounting cap screws (secure)		Chromed rod (condition)
Turntable		Upper Boom	
	Structure (welds intact, no deformation or cracks)		Fiberglass cap screws (secure)
	Boom pin and retainers secure		Fiberglass (condition, clean, undamaged)
	Lower boom cylinder pivot pin and retainers secure		Hose carrier
	Covers		Covers
	No leaks		No leaks

Extension Cylinder		Lanyard attachment cap screws secure
Upper boom extension cylinder trunnion pins secure	Material Handling Package	
Pins and retaining rings secure	Jib/sheave (condition, turns freely)	
Operation	Jib/sheave pins (condition, operation)	
No leaks	Jib tilt/extension cylinder (leaks, chromed rod, retainers)	
Chromed rod (condition)	Jib tilt cylinder mounting bracket cap screws torque	
Upper Boom Tip		Jib/winch structures (welds intact, no deformation or cracks)
Structure (welds intact, no deformation or cracks)	Mounting pins, fasteners and retainers secure	
Boom tip pin retaining plate cap screws secure	Winch mounting (cap screws secure, welds intact, deformation or cracks)	
Upper Controls		Winch motor mounting cap screws (secure)
Operation (metering, proper direction)	Winch brake (operation)	
Interlock (operation)	Gearbox outboard bearing secure	
Platform leveling control (operation)	No leaks	
Emergency hydraulic shutdown (operation)	Winch line (condition)	
Upper controls cable (routing, wire ties)	Cover	
Tools quick disconnect couplers (condition, operation, dust caps)	Lubrication	
No operation in Lower Controls position	Outrigger inner leg outer surface	
No leaks	Extendible upper boom	
Platform		Valve spools
Mounting secure (bracket, pins, and fasteners)	Rotation gearbox, output shaft upper bearing (if applicable)	
Platform (condition, clean)	Single handle control linkage pivots only	
Mounting structures (welds intact, no deformation or cracks)		
Required Maintenance (Regardless of Hours)		
Annual Testing		Dielectric test platform liner(s)
Vehicle inspection is up to date	Confirmation test of single handle control	
Dielectric test unit	Atmospheric vents (visually inspect all, verify operation)	
1,000 PTO Hours/1 Year		
Perform the 500 hour/6 month inspection	Rotation bearing inspection and measurement [<i>before</i> 0.050" (1.27 mm) increased wear from initial measurement] ²	
Unit Plumbing Below Rotation		
Hoses and tubes (routing, condition, no leaks)	Extension Cylinder	
Exhaust shields	Hoses (routing, condition)	
Pump/PTO		
Shaft condition	Lower Boom	
Mounting cap screws secure	Insulator fasteners torque	
Hydraulic Reservoir and System		Upper Boom
Drain water from bottom of reservoir	Upper boom weldment fasteners torque	
Collect oil sample for analysis ¹	Slide pad bearings and fasteners	
Clean suction filter element	Upper Boom Tip	
Reservoir cover gasket condition	Boom tip pin retaining plate cap screw torque inspection	
Rotation Bearing and Gearbox		Mounting to upper boom secure
Rotation bearing cap screw annual torque inspection	Winch	
Rotation gearbox mounting cap screws annual torque inspection	Line anchor point secure	
	Winch load stopping/holding	

A Class elevator

Fiberglass		Structures	
	Seal between insulator and steel tubes		All structures and welds included on 500 hour/6 month checklist (no significant corrosion)
	Insulator is clean and waxed		
	Insulator bond	Lubrication	
	Seal between upper boom and steel tube		Rotation gearbox oil level
			Winch gearbox oil level
2,000 PTO Hours/2 Years			
	Perform the 1,000 hour/1 year inspection	Rotation Bearing and Gearbox	
Hydraulic Reservoir and System			Pinion to rotation bearing gear backlash
	Change hydraulic oil	Lubrication	
	Clean or change filler hole strainer		Pump input shaft splines
	Change filler/breather cap		
4,000 PTO Hours/4 Years			
	Perform the 2,000 hour/2 year inspection	Lubrication	
Hydraulic Reservoir and System			Change winch gearbox oil
	Flush hydraulic system		Change rotation gearbox oil
Major Structural Inspection (Regardless of Hours)			
	Perform this inspection after the first 15 years of service, and at every 10-year interval thereafter		Cylinder eye structure (welds intact, no deformation or cracks)
	Perform 1,000 hour/1 year inspection		Bushing bearings at rod eye and cylinder eye ³
Load Test		Extension Cylinder	
	Perform major structural load test		Cylinder eye structure (welds intact, no deformation or cracks)
Cycle Times		Lower Boom	
	Check all aerial functions for any operation faster than specified cycle times		Self-lubricating bearings in lower boom for boom pivot pin ³
Upper Boom		Lower Boom Cylinder	
	Self-lubricating bearings in upper boom, drive link, and idler link ³		Rod eye structure (welds intact, no deformation or cracks)
			Cylinder eye structure (welds intact, no deformation or cracks)
Upper Boom Cylinder			Spherical bearings at rod eye and cylinder eye ³
	Rod eye structure (welds intact, no deformation or cracks)		
	Cylinder eye structure (welds intact, no deformation or cracks)	Upper Boom Tip	
	Spherical bearing at rod eye and cylinder eye ³		Self-lubricating bearings for platform leveling sprocket ³
Platform Leveling Cylinders		Outrigger Cylinder	
	Rod eye structure (welds intact, no deformation or cracks)		Rod eye structure (welds intact, no deformation or cracks)

¹ Periodic laboratory analysis is the most accurate method of determining the condition of the hydraulic oil and when it should be changed. If laboratory analysis is used, take a baseline sample. Compare future lab tests on subsequent samples to the original to establish a trend.

² Initially measure turntable tilt as a baseline. Check rotation bearing wear every year until it measures 0.050" (1.27 mm) increased wear from initial measurements. After reaching 0.050" (1.27 mm) increased wear, measure every 6 months. Refer to the Maintenance Manual for the proper procedure. Record measurements in the Rotation Bearing Maintenance Log.

³ Perform bearing inspection test as described in Section 9 of the Maintenance Manual.

Comments _____

Preventive Maintenance and Inspection Checklist

Vehicle No. _____ Location _____ Date _____

Service Request # _____ Model # _____ Serial # _____

Odometer _____ Hours Meter _____ Inspector _____

Open Altec Product Notices _____

Check for Altec Product Notices or other applicable documents provided by Altec for servicing the unit by calling 1-877-GO ALTEC (1-877-462-5832) or by contacting altec.connect@altec.com.

Perform all inspections, adjustments, repairs, and lubrication according to the specifications in all unit maintenance and/or service manuals. If tracking PTO hours using an approved method or device, follow the recommended hourly maintenance intervals. If performing maintenance based upon a calendar based schedule, follow the recommended monthly intervals. The required items apply to both tracking methods.

Intervals

- | | | |
|---|--|--|
| <input type="checkbox"/> Prior to placing the unit in service | <input type="checkbox"/> 85 PTO hours/1 month | <input type="checkbox"/> 500 PTO hours/6 months |
| <input type="checkbox"/> Required maintenance | <input type="checkbox"/> 1,000 PTO hours/1 year | <input type="checkbox"/> 2,000 PTO hours/2 years |
| <input type="checkbox"/> 4,000 PTO hours/4 years | <input type="checkbox"/> Major structural inspection | |

Symbols

- | | | |
|-------------------------|----------------------------|------------------------------------|
| ✓/O = Okay or completed | C = Corrected by inspector | R = Repair or replacement required |
| U = Unsafe to operate | N/A = Not applicable | |

Prior to Placing the Unit in Service		
	Perform the Preoperational Inspection (refer to the Operator's Manual)	Rotation Bearing
		Turntable tilt measurement ² : _____
85 PTO Hours/1 Month		
	Perform the Preoperational Inspection (refer to the Operator's Manual)	Safety and Sentry documents present
		Lubrication
Covers/Placards		Rotation bearing ball race
	Condition, in place	Lower boom cylinder spherical bearings
Hydraulic Reservoir		Upper boom cylinder spherical bearings
	Oil level	Gearbox (if applicable)
Manuals		Rotation bearing gear teeth and pinion gear teeth
	Operator's Manual present	
500 PTO Hours/6 Months		
	Perform the 85 hour/1 month inspection	All Electrical
Hydraulic Reservoir/Pump/PTO		Components and wiring (clearances, tightness, support, no insulation damage)
	Mounting (cap screws secure, welds intact, no cracks)	
	Shutoff valve fully open	Connections (secure, no corrosion)
	No leaks	Unit Mounting
Battery		Subbase mounting (fasteners secure, welds intact, no cracks)
	Mounting (vertically and horizontally secure)	
	Electrical connection (secure, no corrosion)	Subbase structure (welds intact, no cracks)
	Routing (cables do not cross, fuses secure)	Pedestal mounting (fasteners secure, welds intact, no cracks)

A Class - non-elevator

Filters			Rotation bearing inspection and measurement [after
	Change return line filter		0.050" (1.27 mm) increased wear from initial
			measurement]²
Outriggers			
	Mounting (welds intact, no deformation or cracks)		Rotation bearing cap screw visual inspection
	Aerial device/outriggers selector operation		Rotation gearbox mounting cap screw visual inspection
	Outrigger interlock system operation	Lower Boom Cylinder	
	Operation (holding without drift)		Pivot bearings secure within cylinder eyes
	Structures (welds intact, no deformation or cracks)		Pin retainers secure
	Pins and retainers secure		Operation
	No leaks		No leaks
Lower Tools Circuit			Chromed rod (condition)
	Operation	Lower Boom	
	No leaks		Structure (welds intact, no deformation or cracks)
	Quick disconnect couplers (condition, operation, dust caps)		Fasteners secure
			Insulator fasteners secure
Hydraulic System			Insulator (condition, clean, undamaged)
	Pump compensator _____		Covers
	Pilot pressure _____		No leaks
	Standby pressure _____	Elbow	
	Tool system pressure _____		Lower scissor link anchor pin (retainer condition, cap screws secure)
Lower Controls			
	Operation (metering, proper direction)		Elbow pivot pin (retainer condition, cap screw secure)
	Engine start/stop switch operation		Eccentric bushings (cap screws and rollpins in place)
	Lower/upper control operation		Upper boom drive mechanism anchor pins (retainer condition, cap screws secure)
Pedestal			
	Structure (welds intact, no deformation or cracks)	Upper Boom Cylinder	
	No leaks		Pin retainers secure
	Covers		Operation
	Rotary joint mounting cap screws (secure), restraint bracket secure		No leaks
			Chromed rod (condition)
	Slip ring mounting cap screws (secure)	Upper Boom	
Turntable			Fiberglass cap screws (secure)
	Structure (welds intact, no deformation or cracks)		Fiberglass (condition, clean, undamaged)
	Boom pin and retainers secure		Hose carrier (telescopic units only)
	Lower boom cylinder pivot pin and retainers secure		Covers
	Covers		No leaks
	No leaks	Extension Cylinder	
Rotation Bearing and Gearbox			Upper boom extension cylinder trunnion pins secure
	Motor mounting cap screws secure		Pins and retaining rings secure
	Eccentric ring lock in place and secure		Operation
	No leaks		No leaks
	Operation (smoothness and noise level)		Chromed rod (condition)
	Pinion gear teeth	Upper Boom Tip	
	Rotation bearing gear teeth		Structure (welds intact, no deformation or cracks)
	Gearbox internal lost motion		Boom tip pin retaining plate cap screws secure

Upper Controls		Jib tilt cylinder mounting bracket cap screws torque
Operation (metering, proper direction)		Jib/winch structures (welds intact, no deformation or cracks)
Interlock (operation)		
Platform leveling control (operation)		Mounting pins, fasteners and retainers secure
Emergency hydraulic shutdown (operation)		Winch mounting (cap screws secure, welds intact, deformation or cracks)
Upper controls cable (routing, wire ties)		
Tools quick disconnect couplers (condition, operation, dust caps)		Winch motor mounting cap screws (secure)
		Winch brake (operation)
No operation in Lower Controls position		Gearbox outboard bearing secure
No leaks		No leaks
Platform		Winch line (condition)
Mounting secure (bracket, pins, and fasteners)		Cover
Platform (condition, clean)	Lubrication	
Lanyard attachment cap screws secure		Outrigger inner leg outer surface
Mounting structures (welds intact, no deformation or cracks)		Extendible upper boom
		Valve spools
Material Handling Package		Rotation gearbox, output shaft upper bearing (if applicable)
Jib/sheave (condition, turns freely)		
Jib/sheave pins (condition, operation)		Single handle control linkage pivots only
Jib tilt/extension cylinder (leaks, chromed rod, retainers)		
Required Maintenance (Regardless of Hours)		
Annual Testing		Dielectric test platform liner(s)
Vehicle inspection is up to date		Confirmation test of single handle control
Dielectric test unit		Atmospheric vents (visually inspect all, verify operation)
1,000 PTO Hours/1 Year		
Perform the 500 hour/6 month inspection	Extension Cylinder	
Unit Plumbing Below Rotation		Hoses (routing, condition)
Hoses and tubes (routing, condition, no leaks)	Lower Boom	
Exhaust shields		Insulator fasteners torque
Pump/PTO		Upper Boom
Shaft condition		Upper boom weldment fasteners torque
Mounting cap screws secure		Slide pad bearings and fasteners
Hydraulic Reservoir and System		Upper Boom Tip
Drain water from bottom of reservoir		Boom tip pin retaining plate cap screw torque inspection
Collect oil sample for analysis ¹		Mounting to upper boom secure
Clean suction filter element	Winch	
Reservoir cover gasket condition		Line anchor point secure
Rotation Bearing and Gearbox		Winch load stopping/holding
Rotation bearing cap screw annual torque inspection	Fiberglass	
Rotation gearbox mounting cap screws annual torque inspection		Seal between insulator and steel tubes
		Insulator is clean and waxed
Rotation bearing inspection and measurement [before 0.050" (1.27 mm) increased wear from initial measurement] ²		Insulator bond
		Seal between upper boom and steel tube

Structures		Lubrication	
	All structures and welds included on 500 hour/6 month checklist (no significant corrosion)		Rotation gearbox oil level
			Winch gearbox oil level
2,000 PTO Hours/2 Years			
	Perform the 1,000 hour/1 year inspection	Rotation Bearing and Gearbox	
Hydraulic Reservoir and System			Pinion to rotation bearing gear backlash
	Change hydraulic oil	Lubrication	
	Clean or change filler hole strainer		Pump input shaft splines
	Change filler/breather cap		
4,000 PTO Hours/4 Years			
	Perform the 2,000 hour/2 year inspection	Lubrication	
Hydraulic Reservoir and System			Change winch gearbox oil
	Flush hydraulic system		Change rotation gearbox oil
Major Structural Inspection (Regardless of Hours)			
	Perform this inspection after the first 15 years of service, and at every 10-year interval thereafter		Cylinder eye structure (welds intact, no deformation or cracks)
	Perform 1,000 hour/1 year inspection		Bushing bearings at rod eye and cylinder eye ³
Load Test		Extension Cylinder	
	Perform major structural load test		Cylinder eye structure (welds intact, no deformation or cracks)
Cycle Times		Lower Boom	
	Check all aerial functions for any operation faster than specified cycle times		Self-lubricating bearings in lower boom for boom pivot pin ³
Upper Boom		Lower Boom Cylinder	
	Self-lubricating bearings in upper boom, drive link, and idler link ³		Rod eye structure (welds intact, no deformation or cracks)
Upper Boom Cylinder			Cylinder eye structure (welds intact, no deformation or cracks)
	Rod eye structure (welds intact, no deformation or cracks)		Spherical bearings at rod eye and cylinder eye ³
	Cylinder eye structure (welds intact, no deformation or cracks)	Upper Boom Tip	
	Spherical bearing at rod eye and cylinder eye ³		Self-lubricating bearings for platform leveling sprocket ³
Platform Leveling Cylinders		Outrigger Cylinder	
	Rod eye structure (welds intact, no deformation or cracks)		Rod eye structure (welds intact, no deformation or cracks)

¹ Periodic laboratory analysis is the most accurate method of determining the condition of the hydraulic oil and when it should be changed. If laboratory analysis is used, take a baseline sample. Compare future lab tests on subsequent samples to the original to establish a trend.

² Initially measure turntable tilt as a baseline. Check rotation bearing wear every year until it measures 0.050" (1.27 mm) increased wear from initial measurements. After reaching 0.050" (1.27 mm) increased wear, measure every 6 months. Refer to the Maintenance Manual for the proper procedure. Record measurements in the Rotation Bearing Maintenance Log.

³ Perform bearing inspection test as described in Section 9 of the Maintenance Manual.

Comments _____
