

Preventive Maintenance and Inspection Checklist

Vehicle No. _____ Location _____ Date _____

Model Number _____ Serial Number _____

Odometer _____ Hours Meter _____ Inspector _____

Perform all inspections, adjustments, repairs, and lubrication according to Altec specifications in the Maintenance Manual. *Refer to any MABs, CSNs, or other applicable documents provided by Altec for servicing the unit.*

If you are tracking PTO hours utilizing an approved method or device, follow the recommended hourly maintenance intervals, or if you are performing maintenance based upon a calendar-based schedule, follow the recommended monthly intervals. The required items apply to both interval-tracking systems.

Intervals

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

Symbols

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

Prior to Placing Unit in Service			
	Perform the Daily Preoperational Inspection (refer to the Operator's Manual)		Rotation Bearing Turntable tilt measurement ² : _____
Hydraulic Reservoir and System			
	Check oil and collect oil sample for analysis ¹		
85 PTO Hours/1 Month			
	Perform the Daily Preoperational Inspection (refer to the Operator's Manual)		Auger Stow Bracket Auger windup sling
			Auger windup sling clevis shear pin intact
General Condition			
	Clean debris from turntable, cylinders, boom tip		Fiberglass Boom(s)
			Upper boom (condition, clean)
Hydraulic Reservoir			
	Oil level		Lubrication
Hydraulic System			
	Pedestal (no leaks)		Rotation bearing ball race
	Turntable (no leaks)		Lower boom lift cylinder pivot bearings
			Rotation pinion and bearing gear teeth
500 PTO Hours/6 Months			
	Perform the 85 hour/1 month inspection		Noise level
PTO			
			No leaks
	Operation, noise level, no leaks		Unit Mounting
	Mounting cap screws secure		Subbase mounting (fasteners secure, welds intact, no cracks)
Supplemental Brake Lock			
	Operation (holding, no bleed-off)		Subbase structure (welds intact, no cracks)
Chassis Underside			
	Hoses (routing, condition)		Pedestal mounting (fasteners secure, welds intact, no cracks)
	Exhaust shields		Boom rest (welds intact, no deformation or cracks)
Pump			
	Mounting cap screws secure		Utility body mounting (cap screws secure, welds intact, no cracks)
	4-bolt flange cap screws secure		Hydraulic Reservoir
	Drive line		Mounting (cap screws secure, welds intact, no cracks)

	No leaks		Hoses and tubes (routing, condition)
	Shutoff valves fully open		No leaks
	Drain water from bottom		Rotary joint mounting cap screws secure
Filters			Rotary joint drive bracket (condition, in place)
	Change return line filter		Slip ring mounting cap screws secure
	Change pilot line filter		Throttle circuit (hydraulic swivel mounting bracket and drive bracket secure)
Outriggers			
	Mounting (welds intact, no deformation or cracks)		Placards (condition, readable)
	Machine/ground level functions selector valve (operation, no leaks)	Turntable	
	Two-speed throttle switch operation		Structure (welds intact, no deformation or cracks)
	Interlock system operation		Boom pin and retainers secure
	Operation (holding without drift, no leaks)		Lift cylinder pivot pin and retainers secure
	Structures (welds intact, no deformation or cracks)		Hoses and tubes (routing, condition)
	Pins and retainers secure, retaining cap screws secure		No leaks
	Motion alarm		Placards (condition, readable)
	Hoses and tubes (routing, condition)		Rotary joint mounting cap screws secure
	Placards (condition, readable)		Slip ring mounting cap screws secure
	Control valves (operation, no leaks)		Rotary joint drive bar cap screws secure
Lower Tools Circuit			Rotary joint water drainage notches (open)
	Operation, no leaks		Junction box electrical connections secure
	Hoses (routing, condition)	Rotation Bearing and Gearbox	
	Quick disconnect couplers (condition, operation, dust caps)		Gearbox mounting cap screw visual inspection
			Motor mounting cap screws secure
			Eccentric ring lock (in place, secure)
Hydraulic System Pressure			No leaks
	Outrigger and boom functions system (_____ psi)		Rotation bearing and pinion gear teeth condition
	Tool system pressure (_____ psi)		Pinion to rotation bearing gear backlash
	Digger/winch relief pressure (_____ psi)		Gearbox internal lost motion
	Pilot system (_____ psi)		Operation (smoothness, noise level)
Lower Controls			Rotation bearing cap screw visual inspection
	Placards (condition, readable)		Rotation gearbox brake adjustment
	Panel night lights (operation)		Rotation bearing inspection and measurement (<i>after</i> 0.050" increased wear from initial measurement) ²
	Engine start/stop switch (operation)		
	Lower/emergency stop/upper control switch (operation)	Lower Boom Lift Cylinder	
	Controls (rubber boots intact)		Pivot bearings secure within cylinder eyes
	Operation, no leaks		Pin retainers secure
	Lower control valve (operation, no leaks)		Velocity fuse in place
	Toggle switches (safety covers and seals intact)		Operation, no leaks
	Digger speed switch (interlock circuit)		Holding valves (operation, no leaks)
	Pressure gauges		Chromed rod condition
	Cold oil/change filter light	Extension Cylinders	
	Tachometer		Upper boom extension cylinder trunnion pins secure
	Mechanical foot throttle (stop adjustment)		Upper and intermediate boom cylinder pins and retaining rings secure
	Hydraulic foot throttle (air bleeding, oil level)		
Pedestal			Intermediate boom cylinder cap screw and jam nut secure
	Structure (welds intact, no deformation or cracks)		

	Hoses and tubes (routing, condition)	Boom Tip Power Package
	Operation, no leaks	Hose carrier track (links pivot freely)
	Holding valves (operation, no leaks)	Fiberglass tube condition
Feeder Tubes		Hoses and tubes (routing, condition, no leaks)
	Mounting nuts secure	Upper controls cable (routing, wire ties)
	No leaks	Transfer operation and retaining pin alignment
	Chromed rod condition	Platform
Lower Boom		Mounting secure (bracket, pins and fasteners)
	Structure (welds intact, no deformation or cracks)	Storage lock detent pin operation
	Lift cylinder pivot pin and retainers secure	Brake (adjustment, pad and rotor condition)
	Slide bearing nuts and cap screws secure	Platform (condition, clean)
	Fasteners secure	Liner (condition, clean, fasteners secure)
	Boom stow switch operation	Placards (condition, readable)
	Boom angle indicators	Lanyard attachment secure
	Remove any debris from inside lower boom	Upper Controls
Intermediate Boom		Placards (condition, readable)
	Structure (welds intact, no deformation or cracks)	Emergency stop operation
	Surface condition	Control handles (throttle pickup)
	Winch rope rollers turn freely	No operation in upper controls Off position
	Pins and retainers secure	Intermediate and upper boom sequencing operation
	Fasteners secure	Engine start/stop control
	Two-part load line attachment	Placards (condition, readable)
Upper Boom		Tools at Platform
	Fiberglass fasteners secure	Quick disconnects (condition, operation, no leaks)
	Fiberglass (condition, clean)	Quick disconnect dust caps (condition, in place)
	Boom tip fasteners secure	Hoses (routing, condition, no leaks)
	Remove any debris from inside upper boom	Turntable or Boom Tip Winch
Transferable Flares		Gearbox mounting cap screws secure
	Structure (welds intact, no deformation or cracks)	Motor mounting cap screws secure
	Transfer operation and pin alignment	Outboard output shaft bearing secure
	Fasteners secure	Operation, no leaks
Upper Boom Tip		Brake adjustment
	Structure (welds intact, no deformation or cracks)	Winch line (condition, anchor point secure)
	Mounting to upper boom secure	Winch drum set screw secure against output shaft
	Platform mounting tubes secure	Auger Stow Bracket
	Sheaves (condition, turn freely)	Structure (welds intact, no deformation or cracks)
	Sheave pins and retainers secure	Fasteners secure
	Rope retaining pin above upper sheave in place	Auger stow switch operation
Pole Guide		Auger release operation
	Structure (welds intact, no deformation or cracks)	No leaks
	Tongs (no deformation or cracks)	Digger
	Cap screws secure	Operation, no leaks
	Hoses and tubes (routing, condition)	Noise level
	Operation, no leaks	Two-speed shift operation
	Pole guide/intermediate boom extension interlock	Hoses (routing, condition)

	Bail pivot pin nuts secure		Winch worm bearings
Digger Link and Hanger Bracket			Digger link pivot pins
	Structures (welds intact, slide bearing, no deformation or cracks)		Corner mount outrigger pivot pins
			Auger stow switch plunger
	Link pivot pin or retainers secure		Boom stow switch plunger
	Fasteners secure		Platform brake detent pin
	Latch and latch keeper (alignment, operation)		Digger hanger bracket latch pivot point
	Latch weldment lug operation		Digger link detent lug
Auger and Extension Shaft			Pole guide tong gear teeth
	Flighting condition		Pole guide tilt pivot pins
	Teeth and pilot bit condition		Boom angle indicator
	Windup sling lug, weld intact		Platform brake linkage
	Extension shaft, auger retaining cap screws secure		Outrigger valve handle linkage
	Extension shaft and auger straight		Auger windup sling (wire rope)
Hydraulic Overload Protection			Winch line (wire rope)
	Operation		Transferable boom flares and pole guide assembly retaining pin and boss(es)
Side Load Protection			
	CCW sideslip set per Section 5: _____ lbs		Upper boom slide bearing pivot pin
	CW sideslip set per Section 5: _____ lbs		Platform mounting pin and boss
	Rotation brake set per Section 5: _____ lbs		Intermediate boom outer surface
Lubrication			Outrigger inner leg outer surface
	Boom pin		Digger gearbox oil level
	Auger stow bracket latch		Rotation gearbox output shaft upper bearing
	Winch gearbox outboard bearing		Rotation gearbox oil level
	Intermediate winch line roller(s)		Winch gearbox oil level
	Rotary joint		Winch brake oil level
Required Maintenance (Regardless of Hours)			
Annual Testing			Dielectric test platform liner(s)
	Dielectric test unit		
1,000 PTO Hours/1 Year			
	Perform the 500 hour/6 month inspection		Collect oil sample for analysis ¹
Hydraulic Reservoir and System		Rotation Bearing and Rotation Gearbox	
	Clean suction filter		Annual torque inspection
	Change filler breather cap filter	Lubrication	
	Clean or change filler hole strainer		Pump input shaft splines
	Reservoir cover gasket condition		
2,000 PTO Hours/2 Years			
	Perform the 1,000 hour/1 year inspection		Clean inside of reservoir
Hydraulic Reservoir and System			Clean magnetic suction separator filter
	Flush hydraulic system		Change hydraulic oil

Rotation Bearing		Change winch gearbox oil
	Rotation bearing inspection and measurement (<i>before</i> 0.050" increased wear from initial measurement) ²	Change rotation gearbox oil
Lubrication		
	Change digger gearbox oil	

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 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 2 years until it measures 0.050" increased wear from initial measurements. After reaching 0.050" increased wear, measure every 6 months. Refer to the Maintenance Manual for the proper procedure.

Deficiency Report **SR#** _____ **Serial#** _____ Page ____ of ____

Customer: _____ Date _____ Technician: _____

¹**Deficiency Type:** **D** – Damage; **S** – Sublet; **M** – Missing; **N** – Note

Item #	Def. Type ¹	Deficiency Description	Troubleshoot	Replace	Repair	Est. Hrs
	D M	*Note: Text size will auto adjust*				
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