

Preventive Maintenance and Inspection Checklist

2016 F550
83000F

Vehicle No. GEA83085 Location Cake Yard Date 8-10-2020
 Service Request # 979191 Model # AT 40 m Serial # 0116CZ00448
 Odometer 197418 Hours Meter — Inspector QWJ

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 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

- ☐ Prior to placing the unit in service
☒ 1,000 PTO hours/1 year
☐ 85 PTO hours/1 month
☐ 2,000 PTO hours/2 years
☐ 500 PTO hours/6 months
☐ Required maintenance

Symbols

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

Prior to Placing Unit in Service	
✓ Perform the Daily Preoperational Inspection (refer to the Operator's Manual)	Turntable tilt measurement ² : <u>0.067°</u>
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)	General Condition
Hydraulic Reservoir	✓ Clean debris from around articulating arm, turntable, elevators
✓ Oil level	Lubrication
Fiberglass	✓ Rotation bearing ball race
✓ Upper boom (condition, clean)	✓ Elevator cylinder pivot bearings
✓ Arm and link (condition, clean)	✓ Rotation pinion and rotation bearing gear teeth
✓ Optional ISO-Boom (condition, clean)	✓ Outrigger inner leg out surface
Hydraulic System	✓ Arm cylinder pivot bearing
✓ Pedestal (no leaks)	✓ Lift cylinder pivot bearings
✓ Turntable (no leaks)	✓ Gearbox
500 PTO Hours/6 Months	
✓ Perform the 85 hour/1 month inspection	Unit Mounting
PTO	✓ Subbase mounting (fasteners secure, welds intact, no cracks)
✓ Operation, noise level, no leaks	✓ Pedestal mounting (welds intact, no cracks, bolts secure)
✓ Mounting bolts tight	✓ Boom rest (welds intact, no deformation or cracks)
Supplemental Brake Lock	✓ Body mounting (bolts secure, weld intact, no cracks)
✓ Operation (holding, no bleed-off)	Hydraulic Reservoir
Pump	✓ Mounting (cap screws secure, welds intact, no cracks)
✓ Noise level	✓ No leaks
✓ No leaks	✓ Shutoff valve fully open
✓ Mounting bolts secure	✓ Drain water from bottom
✓ Drive line	

Filters			Rotation bearing inspection and measurement [after 0.050" (1.27 mm) increased wear from initial measurement] ²
☒	Change return line filter		
Outriggers			
☒	Mounting (welds intact, no deformation or cracks)	Articulating Arm Cylinder	
☒	Motion alarm	☒	Operation, no leaks
☒	Machine/outriggers/tools selector valve (operation, no leaks)	☒	Holding valves (operation, no leaks)
☒	Interlock system operation	☒	Chromed rod condition
☒	Operation (holding without drift, no leaks)	☒	Trunnion pins, trunnion cap plates in place
Articulating Arm			
☒	Structures (welds intact, no deformation or cracks)	☒	Riser (welds intact, deformation or cracks)
☒	Pins and retainers secure, retaining cap screws secure	☒	Link (welds intact, deformation or cracks)
☒	Hoses and lines (routing, condition)	☒	Arm (welds intact, deformation or cracks)
☒	Placards (condition, readable)	☒	Hydraulic leveling cylinder (operation)
☒	Control valves (operation, no leaks)	☒	Link pivot pins
Hydraulic System Pressure		☒	Fiberglass fasteners secure
	Main system pressure <u>3000</u>	Lift Cylinder	
	Tool system pressure <u>2000</u>	☒	Pivot bearings secure
	Standby pressure <u>350</u>	☒	Pin retainers secure
Lower Control Station		☒	Operation, no leaks
☒	Placards (condition, readable)	☒	Holding valves (operation, no leaks)
☒	Lower control valve (operation, no leaks)	☒	Chromed rod condition
☒	DC pump switch (operation)	Lower Boom	
☒	Station selector valve (operation, no leaks)	☒	Structure (welds intact, no deformation or cracks)
Pedestal		☒	Lift cylinder pivot pin and retainers secure
☒	Structure (welds intact, no deformation or cracks)	☒	Remove any debris from inside lower boom
☒	Hoses and lines (routing, condition)	☒	Covers in place
☒	No leaks	☒	Slide pad bearings (cap screws secure)
Turntable		☒	Lower boom pin
☒	Structure (welds intact, no deformation or cracks)	☒	Extension cylinder mounting (cap screws secure)
☒	Lower boom pin and retainers secure	☒	Lower platform leveling cylinder mounting pins
☒	Lower boom cylinder pivot pin retainers secure	☒	Boom slide blocks (cap screws secure, wear)
☒	Hoses and lines (routing, condition, no leaks)	☒	ISO-Boom mounting cap screws secure
☒	Articulating arm pivot pin	Upper Boom	
☒	Rotary joint mounting bolts secure	☒	Structure (welds intact, no deformation or cracks)
☒	Slip ring mounting bolts secure	☒	Fiberglass (condition, clean)
Rotation Bearing and Gearbox		☒	Hose assembly (no leaks, routings, condition)
☒	No leaks	☒	No leaks
☒	Pinion gear teeth	☒	Slide pad bearings (cap screws secure, wear)
☒	Rotation bearing gear teeth condition	☒	Covers in place
☒	Gearbox mounting cap screw visual inspection	☒	Upper boom stow lock down strap
☒	Rotation bearing cap screw visual inspection	☒	Boom tip fasteners secure
☒	Motor mounting bolts secure	Upper Boom Extension Cylinder	
☒	Operation (smoothness, noise level)	☒	Trunnion pins secure
☒	Eccentric ring lock (in place, secure)	☒	Hoses and lines (mounting)
☒	Gearbox internal lost motion	☒	Operation, no leaks

☒	Holding valves (operation, no leaks)	☒	Interlock linkage (operation)
☒	Boom tip cover (condition, in place)	☒	Rubber boots
☒	Remove any debris from inside upper boom	☒	Blocking section of upper control valve (operation, leaks)
Parallel Links and Elevator Arms		☒	Placards (condition, readable)
☒	Structure (welds intact, no deformation or cracks)	Tool Circuits	
☒	Pivot pin (retainer condition, no deformation)	☒	Quick disconnects (condition, operation, no leaks)
Boom Tip		☒	Quick disconnect dust caps (condition, in place)
☒	Platform pin	☒	Operation
☒	Hydraulic leveling cylinder (operation, mounting)	Material Handling Package	
☒	Boom tip weldment (welds intact, no deformation or cracks)	☒	Bracket and mounting pins (condition)
Platform		☒	Sheave (condition, turns freely)
☒	Mounting secure (bracket, pins and fasteners)	☒	Sheave pin and retainer secure
☒	Platform mounting bolts secure	☒	Placards (condition, readable)
☒	Lanyard attachment secure	☒	Jib operation (tilt and extension)
☒	Platform (condition, clean)	☒	Jib cylinders (condition, no leaks, chromed rod)
☒	Liner (condition, clean)	☒	Winch mounting (bolts secure, welds intact, no deformation or cracks)
☒	Placards (condition, readable)	☒	Winch motor mounting bolts secure
☒	Covers in place	☒	Winch brake operation
☒	Hoses (routing, not pinched or pulled, no leaks)	☒	Gearbox outboard bearing secure
☒	Fall arrest system (condition, in place)	☒	Winch line (condition, anchor point secure)
Platform Rotator		☒	Winch cover (condition, in place)
☒	Operation	☒	Control valve (condition, operation, no leaks)
☒	Fasteners (secure)	☒	Hoses (routing, condition, no leaks)
☒	Rotary actuator (condition, no leaks)	Lubrication	
Platform Tilt System		☒	Interlock linkage
☒	Leaks	☒	Platform rotator spherical bearings
☒	Operation	☒	Upper control mechanical linkage
☒	Tilt bracket (welds intact, deformation or cracks)	☒	Outrigger valve handle linkage
☒	Tilt bracket covers	☒	Platform mounting pin and boss
Upper Controls Station		☒	Rotation gearbox output shaft upper bearing
☒	Operation (metering, proper direction, no leaks)	☒	Rotation gearbox lubricant level
☒	Mechanical linkage (operation, adjustment)	☒	Winch gearbox oil level
☒	Emergency stop (operation)	☒	
Required Maintenance (Regardless of Hours)			
Annual Testing		☒	Confirmation test of single handle control(s), if equipped
☒	Unit dielectric test	☒	Atmospheric vents (visually inspect all, verify operation on Category A units)
☒	Platform liner dielectric test	☒	