

JD0064-00

AT10.1/AT30 Series Battery Charger *Preventive Maintenance Procedure*

MAINTENANCE DATE	PERFORMED BY
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Step (standard features)	Instructions	Results
Clean battery charger	<ul style="list-style-type: none"> • All vents clean and open. • Remove dust and debris from inside of unit. 	<input type="checkbox"/> OK <input type="checkbox"/> OK
Check all electrical connections and wiring	<ul style="list-style-type: none"> • TB1 connections all tight. • Internal wiring connections tight, slip-on connectors fully seated. Wire and lug insulation in good condition. • Terminations at battery or bus are tight and corrosion free. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
Check ac input voltage	<ul style="list-style-type: none"> • Measure at TB1-L1, TB1-L2 & TB1-L3 (AT30 only) using ac voltmeter. Value must be within +10%, -12% of nominal. 	Input _____ Vac
Check dc output voltage	<ul style="list-style-type: none"> • Measure at TB1(+) and TB1(-) using dc voltmeter. Value should agree with front panel voltmeter within 1%, and must be correct values for your battery. If the charger is using a temperature compensation probe, see the curve in Section 1.11 of user's manual to determine correct battery voltage. 	Float _____ Vdc Equalize _____ Vdc
Check ripple voltage	<ul style="list-style-type: none"> • Measure at battery terminals using ac voltmeter set to milliVolts scale. • Check against specification in Appendix A of user's manual. 	Ripple _____ mVac
Test front panel indicators	<ul style="list-style-type: none"> • Press LAMP TEST key on front panel. 	<input type="checkbox"/> OK
Test common alarm relay	<ul style="list-style-type: none"> • Press LAMP TEST key and hold for 4 seconds. Common alarm relay will transfer. 	<input type="checkbox"/> OK
Exercise front panel controls	<ul style="list-style-type: none"> • Switch from Float to Equalize, then back to Float. • Turn off the dc circuit breaker. Er 7 may appear on display (requires at least 5% of rated output current). Reset breaker. 	<input type="checkbox"/> OK <input type="checkbox"/> OK
	<ul style="list-style-type: none"> • Cycle through meter modes. See Section 2.2.2 of user's manual. 	<input type="checkbox"/> Volts <input type="checkbox"/> Amps <input type="checkbox"/> Hours
	<ul style="list-style-type: none"> • Cycle through equalize methods. See Section 2.2.3 of user's manual. 	<input type="checkbox"/> Manual Timer <input type="checkbox"/> Manual Equalize <input type="checkbox"/> Auto-Eq Timer
	<ul style="list-style-type: none"> • Turn off ac circuit breaker. The AC INPUT FAILURE indicator should light. Reset breaker. 	<input type="checkbox"/> Alarm OK
Check voltage and alarm settings	<ul style="list-style-type: none"> • Use EDIT/ENTER key to scroll through settings. See Section 2.3 of user's manual. • Press Up Arrow and EDIT/ENTER keys together to check current limit setting 	<input type="checkbox"/> Float OK <input type="checkbox"/> Equalize OK <input type="checkbox"/> HVDC OK <input type="checkbox"/> LVDC OK Current Limit _____ Adc
Final checks	<ul style="list-style-type: none"> • Make sure plexiglas safety cover is in place over I/O terminal board. • Restore charger to normal operation. • Close latch on front panel door. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK

Step (optional features)	Instructions	Results
Test auxiliary alarm relays	<ul style="list-style-type: none"> • Press LAMP TEST key and hold for 4 seconds. Alarm relays will transfer. 	<input type="checkbox"/> OK
Check integrity of remote wiring	<ul style="list-style-type: none"> • Remote sense wiring. See Section 1.9 of user's manual. • Temperature compensation wiring. See Section 1.11 of user's manual. • Temperature compensation probe. See Section 1.11 of user's manual. 	<input type="checkbox"/> OK <input type="checkbox"/> OK <input type="checkbox"/> OK
Final checks	<ul style="list-style-type: none"> • Close padlock or key lock. 	<input type="checkbox"/> OK