TROUBLESHOOTING TIPS FOR WATTSUN AZ100 & AZ200 TRACKERS MANUFACTURED AFTER JAN 1997

PROBLEM	SOLUTION
For problems arising during initial installation	• Check for appropriate dip switch settings in accordance with installation parameters
Tracker stopped moving	• Test for voltage at controller input. • Test for blown 5 Amp fuse in controller. • Test for voltage at controller azimuth output (green & white wires).
No voltage at controller input	• Check for loose wire connection. • Check for blown supplemental fuse if one is installed.
Fuse blown in controller	• Check for tracker binding on service loop or obstruction. • Replace 5 amp fuse and test. • Check for continuity to ground from azimuth and elevation wire terminals (Green, White, Red & Black) They should read no continuity. • Replace main electronic board.
No output at green and white azimuth wires	• Remove green and white wires from motor terminal strip and test voltage when disconnected. No voltage = replace control box
Voltage at green and white azimuth output wires when disconnected from motor	• Test azimuth motor. Apply DC (12-24 vdc) voltage to terminals 1 & 2 on motor. (CONTROLLER WHITE AND GREEN WIRES MUST BE DISCONNECTED FROM MOTOR) Damage will result if controller output wires are connected to a voltage source. If motor runs check current draw. Current draw maximum on AZ motor is 750 ma.
Tracker tracks for a moment and then stops for the rest of the day	• Internal self-resetting fuse is blown. Disconnect power to the controller to reset the fuse. Test tracker using internal dip switches. • Measure current draw of Azimuth Motor (should not exceed 750 ma) • Check for tracker binding on service loop or obstruction.
Tracker tracked normally in all directions but stopped at East or West limit position.	• Tracker limit switch cams set too far and tracker hit welded stops. - Reset limit switches and re-cycle input power. • Check for sticky limit switch.
Tracker "ran by" limit switch beyond normal East or West limit position and stopped at the welded stop.	• Test for short to ground in motor. Check continuity between each Azimuth motor power terminal and ground on the pole. • Replace motor.
Tracker does not stay on track in direct sunlight; wanders in one direction during cloudy conditions - operates with dip switches.	• Replace optical sensor
Tracker does not return East at night (Battery powered only)	• Check for power input at night • Illumination on sensor at night • Replace optical sensor
Tracker returns East in late morning early afternoon (PV powered only)	• Tracker moving too far to the West. • Check for true South orientation of drive and make sure West limit stops tracker 10 degree before due West. • Replace optical sensor
Tracker oscillates E/W or N/S	• Water in optical sensor chassis • Water in controller chassis

Troubleshooting Azimuth Trackers
V#3 Controller