

| PROBLEM | SYMPTOMS | PROBABLE CAUSE | CHECK / REMEDY |
|---|--|--|---|
| Will not turn on | No light, no fan And no heat | No power | Check wall outlet for power with voltmeter. Check for tripped circuit breaker, or blown fuse in shop supply |
| | | Spot dryer circuit Breaker tripped (out) | Plug or cord bad - replace |
| | | On/off switch bad | Replace switch |
| No heat | Fan runs, unit rotates | Power relay not working (should hear audible click when dryer turned on) | Replace relay |
| | | Relay okay | Check power to element leads |
| | | There is power to element, but no heat | Unplug unit, check to see that leads are connected. Check element for continuity. Replace element if bad |
| No air | Heats and rotates (A) Fan blade turns free | (A) Fan speed control bad or set too low | Check voltage at fan low= 90v, high 110v. Adjust low ends if needed, turn set screw on top |
| | | (B) Fan may be bad (C) Filter may be clogged and needs cleaning | No volts – replace control Proper voltage – replace fan |
| | (B) Fan blade stuck | Fan housing melted because damper stuck open | Replace fan, unstick damper |
| Will not rotate in (clockwise) over shirt | Everything else works, stays in “out” position | Foot switch or printer limit switch and/or cord, bad. Using stereo plug in mono jack. Units prior to serial no. 90883 are mono | Check out – Substitute another switch/cord assembly or test operation with ohm meter. Repair or replace. Use mono plug with mono jack and stereo with stereo |
| | | Timer bad or set too low. Quick check for timer and limit switch: turn off dryer, rotate half way in manually (clockwise), turn dryer on, it should rotate to “out” position | Check timer: with unit plugged in and turned on, rest a finger on the timer knob, depress foot or limit switch, you should feel timer click on, and at the end of dwell time, off. If not replace timer |
| | | If timer clicks, check the “in” limit switch in dryer head. It may be stuck open. The “in” switch is the one farthest from the on/off switch | Check “in” limit switch: unplug dryer, rotate head half way in by hand, this will put operating pin between limit switches, move lever on “in” limit switch towards body of switch, you should hear and feel a click, if not replace switch |

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| Will not rotate in either direction | Everything else works, and you can hear driver motor run when foot/limit switch is tripped | Drive chain broken, pins thru sprockets sheared. Large sprocket shaft weld broken | <u>Unplug unit</u> remove cover rotate head manually, you should feel steady resistance of drive gearmotor, if not inspect drive train for components that may be slipping or broken |
| | Driver motor does not run in either direction | Motor overheated and its internal overload has tripped | Should cool down in 5-10 minutes possibly have too fast a cycle time, reversing motor too much. |
| | | Capacitor has gone bad | Motor or capacitor bad, replace capacitor and try again, there is no simple test for the capacitor |
| | | Motor has gone bad | Motor must be replaced |
| Spot dryer smokes | Unit smokes, No air | See "No Air" | |
| | Element smokes, Air okay | If element is new it may smoke a little, or element may be dirty | If it persists after 15-20 mins. Shut unit off, and check surface for dirt |
| Head rotates less than 90 degrees | Head constantly rotates in part way, stops for dwell time | Limit switches may be actuated before head rotates a full 90 degs. | Check position of limit switch arms. |
| | | Pin that operates limit may be broken | Drive pin in slightly and see how far it rotates |
| Element over-heating | Element too hot even at maximum air | Overpowered by pulling the stinger leg on 220 volt 3 phase | Check three hot legs to find two 100v. legs and terminating the stinger leg |
| | | Lack of air (A) Air hole plugged | Clear air holes and filter |
| | | (B) Fan speed control bad or set too low | Check voltage at fan: low = 90v. high = 110 v. Adjust low end if needed, turn set screw on top of fan speed control |
| | | Dryer head too close to board | Heating element should be at least 2-3 inches off the shirt board |
| | | Wattage of element too high | If element is 5200 or 4800 watts it should be sent back and retrofitted with a 4200 watt element |
| | No Air | See "No Air" | |
| Will not rotate out (counter-clockwise) off shirt board | Everything else works, stays in "in" position | Timer is stuck. Timer test: turn off dryer, rotate half way out manually (counter-clockwise), turn dryer on, if it rotates to "in" position timer is stuck, possibly with dust | Twist timer knob several times back and forth through its range and tap on the timer body a few times to dislodge any dust. Retest timer, replace timer if problem persists |

NOTICE: SPOT DRYER GEAR MOTOR CHANGE

When ordering a replacement gear motor for an automatic spot dryer:
 Serial number 91207 and down requires the old style six bolt mount gear motor.
 Serial number 91208 and up requires the new style four bolt mount gear motor.