

SERVICE NOTE

FAULT FINDING ON TS & TS-SOL CONTROL BOX

FAN NOT RUNNING

Go through fan control components in turn.

- Is mains supply ON?
- Is fuse OK? (240 V on wire 2)
- Is reset (green) button contact closed? (240 V on wire 3)
- Is 12-hour fan timer OK? (240 V on wire 4)
(If there is 240 V on wire 3 (supply to timer) but no voltage on wires 4 or 10 then 12-hour fan timer is faulty)
- Is control thermostat OK? (240 V on wire 5)
(If there is 240 V on wire 9 (amber neon ON) and water temperature is below thermostat setting then thermostat is faulty)
- Is fan ON/OFF switch OK? (240 V on wire 6, in 'ON' position)
- Is speed controller OK? (240 V on wire 8, in FULL speed position (10))
- If all of the above is OK then the fault is with the fan motor or capacitor. 99% of cases it is the fan motor.

Most customers will not be able to check voltages. In that case ask them to link the incoming mains supply live straight to the terminal feeding down to the fan. If the fan still does not work then as above the fault is almost certainly with the fan motor. If the fan does work then there is a fault with one of the components in the control box. Send 12-hour fan timer and speed controller, as these are the most likely items to fail. (Send diagram with 12-hour timer if customer has the old style.)

FAN RUNS FOR ONLY 2-3 MIN THEN STOPS, OR RUNS CONTINUOUSLY REGARDLESS OF TIMER SETTING

- Change 12-hour fan timer

FAN RUNS AT BELOW EXPECTED SPEED

- Check that fan has been wired correctly
- May be a fault with speed controller
(generally though, if speed controller fails, it either gives full speed regardless of setting, or no output at all)
- If fan tries to start, but is unable to, change capacitor

SOLENOID NOT ACTIVATING

- If fan is running and 200 min timer has activated without the solenoid popping up, then this usually means the solenoid has failed.
- If solenoid pops up when a link from the live supply is wired straight into the terminal going down to the solenoid, then this suggests the 200 min timer is faulty.

SOLENOID POPS UP STRAIGHTAWAY REGARDLESS OF 100-200 MIN TIMER SETTING

- Change 200 min timer