

TI 1097 - Interpreting error codes on TD3030 dryers

When investigating error codes on TD3030 dryers, an understanding of the operating principles of the machine is essential to accurate diagnosis.

E05/E06

These error codes indicate that a motor thermal-protection switch circuit has opened (E05=blower, E06=drum). Electrical failures rarely cause these errors. Overheating of the drive motor(s), as a result of obstructed cooling air vent holes on the motor covers, or mechanical overload, are the most common causes. Check that the cooling air perforations in the motor covers are clean. Check that the blower and drum rotate with the expected amount of effort (blower rotates very freely, drum requires slight effort to turn). Locate and correct causes of mechanical drag on the motor(s), as necessary.

E15

On early model TD3030 dryers, two door micro switches and two lint drawer micro switches were employed on each pocket. One pair of switches (in series) serves to inform the computer control that the door and lint drawer are closed, and the other pair of switches (also in series) provides operating Voltage for the machine's relays. It is, therefore, possible for the computer to detect that the door and drawer are closed, and attempt to activate the machine's motors, and for the relays to be disabled by one of the two remaining micro switches. In this case, the fan and drum motors will not operate, even though the indicator lamp above the START key illuminates. After five seconds, the computer will display an "E15" error code, indicating that the airflow switch failed to close within five seconds **(because the machine's motors did not operate)**.

E17/E18

If the dryer's burner fails to light, error codes "E17" and "E18" can occur under certain conditions, rather than error code "E14". This condition indicates that, for some reason, the dryer's ignition control module (mounted directly on the gas valve) was unable to report the ignition failure to the computer. "E14" is, therefore, not displayed. However, the computer later detects that the inlet air temperature or outlet air temperature fail to rise above required thresholds within two minutes of starting the machine. If the outlet air temperature fails to reach at least 54 degrees F, "E18" will be displayed, and if the inlet air temperature fails to reach at least 86 degrees F, "E17" is displayed. These error codes can lead a service technician to begin investigating the measurement thermistors for inlet and outlet air temperature. **HOWEVER**, it is essential to first verify that the burner is actually lighting when the dryer is started.

If the burner does not light, check that the ignition control module is intact, and securely fastened to the gas valve by the self-tapping screw that passes through it into the valve body. On some machines, it has been found that this mounting screw was not tightened sufficiently during manufacturing. After a period of operation, the ignition control may disconnect from the gas valve, rendering it inoperative, and resulting in the errors described above. Seat the ignition control back onto the valve, and securely tighten the retaining screw.

Call Wascomat Technical Support at 516-371-0700 for assistance.

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