![fast heat logo]

Fast Heat's CableXChecker™
The Hot Runner Cable Testing System

Operator's Manual

Fast Heat's Diagnostic Tools Are Designed Especially for Your Preventative Maintenance Programs

Patent Pending

About Fast Heat, Inc.

Founded in 1957, Fast Heat Inc. innovates technology that drives performance for the Plastics Industry. Fast Heat designs and manufactures hot-runner temperature controllers, diagnostic tools, custom cables, and other devices that help manufacturers produce high-quality parts, reduce waste, and ncrease overall plant productivity.
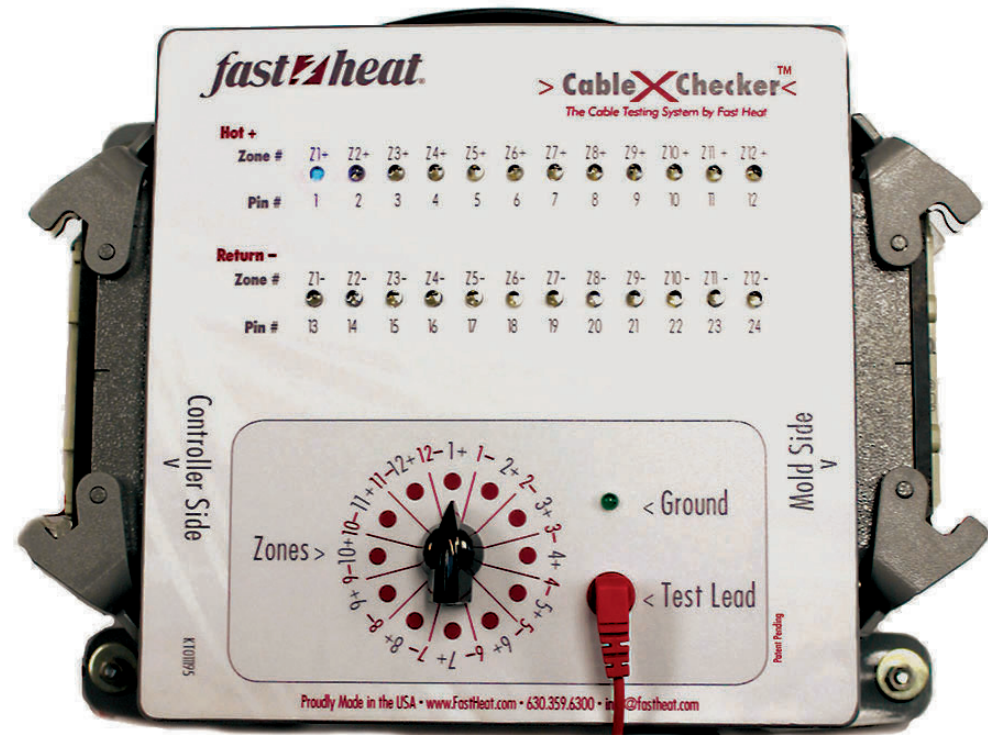
Thank you for choosing Fast Heat's CableXChecker™!

The **CableXChecker**, Fast Heat's Cable Testing System, can quickly and easily detect unforeseen connectivity problems in your hot runner heater and thermocouple cables before they cause problems in production.

Each **CableXChecker** is custom built to match the cables used in your molding operation. In an instant, you can "cross check" your heater and thermocouple cables for:

- Continuity.
- Miswired zones.
- Shorts.

Let's Put Your CableXChecker™ to Work!

1. Plug cable ends into the appropriate connectors on the sides of the **CableXChecker** box (test only one cable at a time). Connections are color coded – red for heater cables, blue for thermocouple cables.

2. Turn the dial on the face of the connector to position #1, and the corresponding light for Zone 1 (top row, hot+) should light (*see photo 1*).

3. Turn the dial again to the stop in between #1 and #2. This should illuminate the corresponding light for Zone 1 (bottom row, return-).

4. Continue turning the dial, one step at a time through all 12 zones (24 steps). Each step should light the corresponding LED at the top of the box.

Diagnosis:

- If each step of the dial illuminates the correct LED, then the cable is good.
- If any step fails to illuminate the correct LED, it means there is a loss of continuity in the cable wiring at that specific zone.

- If any step illuminates multiple LEDs, it means there is a short somewhere between those zones.
- If any step illuminates the wrong LED, it means the cable is improperly wired.

Using the Probe — The probe allows for the manual testing of cables, which is handy for diagnosing cables with (mold-end connectors) that are different than the connector on the **CableXChecker**. The probe is also the only way to test the ground on the cable—which comes in handy when building new cables as well as repairing cables.

Testing Ground:

1. Plug the (controller end) of the cable into the cable tester box.

2. Touch the probe to the ground strip on the connector (*see photos 2 & 3*).

3. The ground LED (in the center of the two rows of LEDs) should light.

Manual Testing of Cables:

1. Plug the (controller end) of the cable into the cable tester box.

2. Touch the probe to each pin on the connector at the opposite end of the cable.

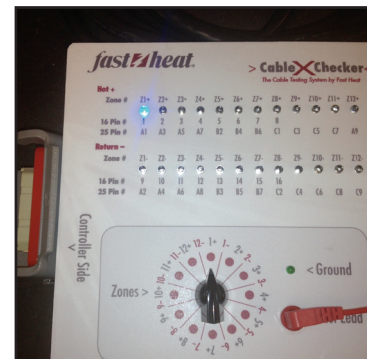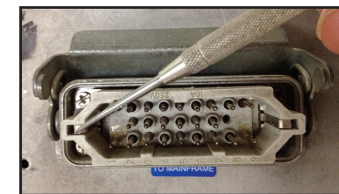3. Corresponding LEDs illuminate when contact is made.

Photo 1 – Zone 1 Illuminated

Photos 2 & 3 – Ground Location on Connectors

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