

ONBOARD DIAGNOSTICS



SECTION 7

ONBOARD DIAGNOSTICS

The Yoder Smokers ACS controller features built-in test diagnostics to assist with verifying and testing functionality, and to help diagnose issues and potential component failure. To run the tests, begin with the steps below:

1. RESET THE POWER

Plug the power cord into the cooker, and into power outlet. If the cooker is already plugged into power, unplug from the power outlet, wait 30 seconds and plug the power cord back into the power outlet.

2. POWER UP THE COOKER

Push the power button. Wait for the display to show the YS logo and Fireboard logo, then press the button next to **MENU**.

3. SELECT 'SETTINGS'

Rotate the selector knob to **SETTINGS** then push the knob to select. (FIG. A)

4. SELECT 'ADVANCED'

Rotate the selector knob to **ADVANCED** then push the knob to select. (FIG. B)

5. SELECT 'TEST'

Rotate the selector knob to **TEST** then push the knob to select. (FIG. C)

Next, your screen will show options to test the ignitor, fans, and auger, as well as view the current temperature reading of the thermocouple. *Please follow the detailed instructions below for how to properly test each component on your cooker.*

FIG. A

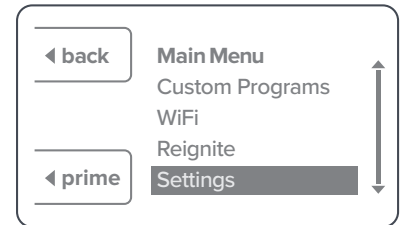


FIG. B

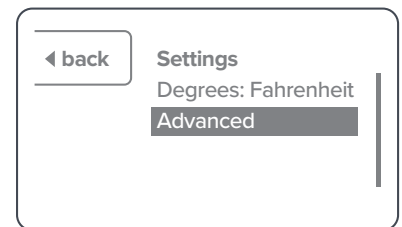
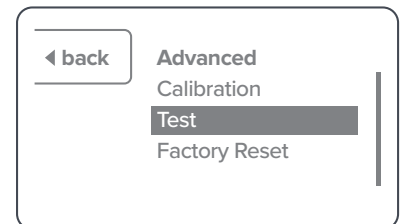


FIG. C



SECTION 8

TESTING THE IGNITER

1. REMOVE COOKING GRATES

Open the cooking chamber lid and remove all cooking grates from the cooker.

2. REMOVE HEAT DIFFUSER

Remove the heat diffuser plate (or remove the door in the heat diffuser if using the optional 2-piece diffuser.) On larger pellet cookers pull the HMS damper fully open.

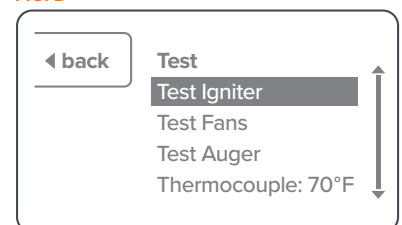
3. CLEAN FIREPOT

Remove the burn grate, then vacuum all the ash from the fire pot and igniter.

4. TEST IGNITER

Rotate the selector knob to **TEST IGNITER** and push the knob to select the menu item. (FIG. D)

FIG. D

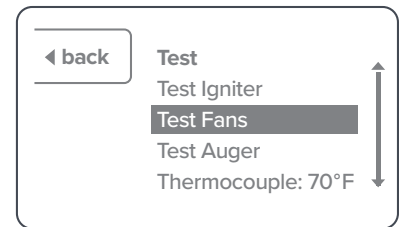


**DO NOT TOUCH THE IGNITER DURING THIS TEST
OR FOR 30 MINUTES AFTER THIS TEST HAS COMPLETED!**

The ACS controller will now apply power to the igniter for 30 seconds, as per the countdown on the display. During this 30 seconds you should observe the igniter inside the firebox get hot and glow red. **If the igniter does not get hot and glow red during this test, contact Yoder Smokers Customer Support via email at customerservice@yodersmokers.com or call 877.409.6337 (Option 2) for support.**

Rotate the selector knob to **TEST FANS** and push the knob to select this menu item. (FIG.E) The fans should have started when the power button was pressed to turn the controller on, and after selecting the **TEST FANS** menu item, the fans will start and stop a few times during the 30 second testing cycle. Looking through the top of the fan vent opening in the hopper end panel, the fans may be observed during this test. **If one of the fans is not turning, contact Yoder Smokers Customer Support via email at customerservice@yodersmokers.com or call 877.409.6337 (Option 2) for support.**

FIG. E



1. REMOVE COOKING GRATES

Open the cooking chamber lid and remove all cooking grates from the cooker.

2. REMOVE HEAT DIFFUSER

Remove the heat diffuser plate (or remove the door in the heat diffuser if using the optional 2-piece diffuser.) On larger pellet cookers pull the HMS damper fully open.

3. CLEAN FIREPOT

Remove the burn grate, then vacuum all the ash from the fire pot and igniter.

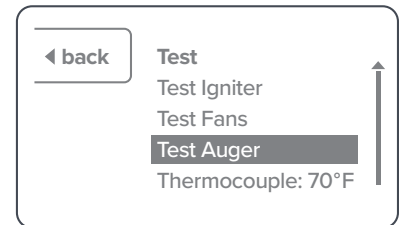
4. REMOVE EXCESS PELLETS

If there are pellets in the hopper and auger, hold a small container under the auger shaft to catch remaining pellets.

5. TEST AUGER

Rotate the selector knob to **TEST AUGER** and push the knob to select the menu item. (FIG. F)

FIG. F



The Auger should start turning (and start dropping pellets if they are present in the hopper and auger) for 30 seconds, as per the countdown on the display. **If the Auger does not turn, contact Yoder Smokers Customer Support via email at atcustomerservice@yodersmokers.com or call 877.409.6337 (Option 2) for support.**

There is not a formal test function for the thermocouple, but the last menu item displays the current temperature reading inside the cooking chamber, and is skewed from the actual temperature IF a calibration setting has been set. i.e., if the actual temperature is 70°F inside the cooking chamber, and there is a -10 calibration setting that has been set on the controller, the temperature displayed will be 60°F.

As a further test, push the back button to go up one level in the menu and push the selector knob to select **CALIBRATION** on the menu. Here you will be able to see if there has been an offset set in the controller, and see the same thermocouple temperature as stated above. To further this information, if the external probes are plugged in, their temperature readings will also be displayed on this screen. *NOTE: Even with a zero (0) setting in the calibration offset, the thermocouple temperature reading displayed may not match the external probes temperature reading.* If there are observed discrepancies or other issues are observed, **contact Yoder Smokers Customer Support via email at atcustomerservice@yodersmokers.com or call 877.409.6337 (Option 2) for support.**