

# IFT2-PACM

## IntelliFire Touch® 2.0 Premium Auxiliary Control Module

### Installation Instructions



Leave this manual with party responsible for use and operation.

## 1. Introduction

The IntelliFire Touch® 2.0 Premium Auxiliary Control Module (IFT2-PACM) is an AC powered device that controls peripheral devices such as lights, fans, heat management systems, power vents and secondary burners approved for use in Hearth & Home Technologies (HHT) products that are equipped with IntelliFire Touch technology. It is connected to and controlled by the IntelliFire Touch 2.0 Electronic Control Module (IFT2-ECM).

**NOTICE!** The PACM only operates with the IFT2-ECM.

## 2. Installation

### A. Precautions

The IFT2-PACM is tested and safe when installed in accordance with this installation manual.

- DO NOT install any of the components included with this kit if they may look damaged.
- DO NOT modify, disassemble, or substitute any of the components included with this kit.
- Installation of this kit MUST BE DONE by a qualified service technician.
- The IFT2-PACM is approved for interior installation only and should not be used in exterior installations.
- Any additional peripheral devices such as lights, fan, heat management systems, secondary burner, and/or power vent must be installed as directed in the appliance Installation manual or accessory instructions.

**NOTICE!** Keep remote control out of reach of children.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged system component.
- Modification of the system component.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

**Any such action may cause a fire hazard.**

- Read, understand and follow these instructions for safe installation and operation.

### B. Kit Contents

- IFT2-PACM Control Module
- AC Input Power Cord
- 1 inch sq. Piece of Velcro

### C. Installation Steps

**WARNING! Risk of Shock! DO NOT touch male pins.** Leave rubber cap on all the cap-on receptacles unless the receptacle is connected to an accessory kit.

**CAUTION! Do not install damaged components.** If you received components that are damaged, contact your dealer for assistance.

1. Remove the contents from the packaging.
2. Locate the IntelliFire Touch electronic control module (IFT2-ECM) in the control cavity of the appliance and move the three-position switch to the OFF position. See Figure 1.
3. Remove protective rubber cap from connector on the top of the IFT2-ECM. See Figure 1.

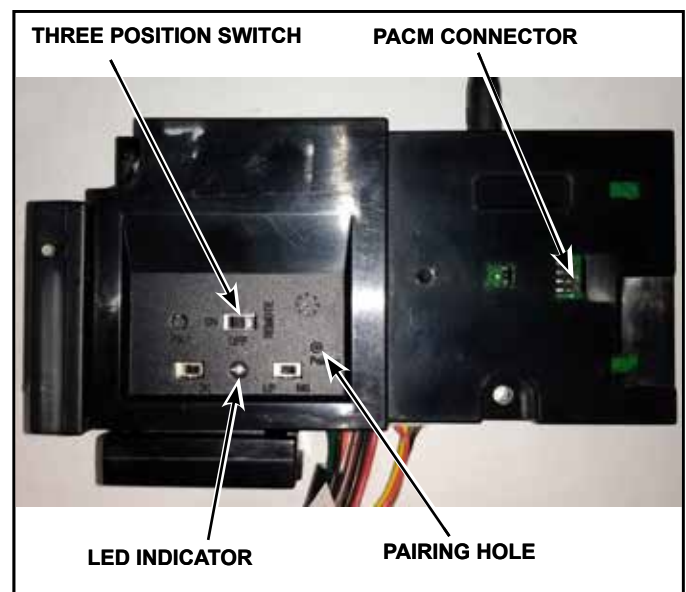


Figure 1 IFT2-ECM

- Attach velcro included with the PACM to the bottom of the PACM. See Figure 2.



Figure 2 Attach Velcro

- Connect the IFT2-PACM to the IFT2-ECM by aligning the pins and tabs and pushing the PACM onto the ECM until both tabs latch in place. Ensure the ECM and PACM are aligned with each other and fastened securely. See Figure 3.



Figure 3 Connecting IFT2-PACM and IFT2-ECM

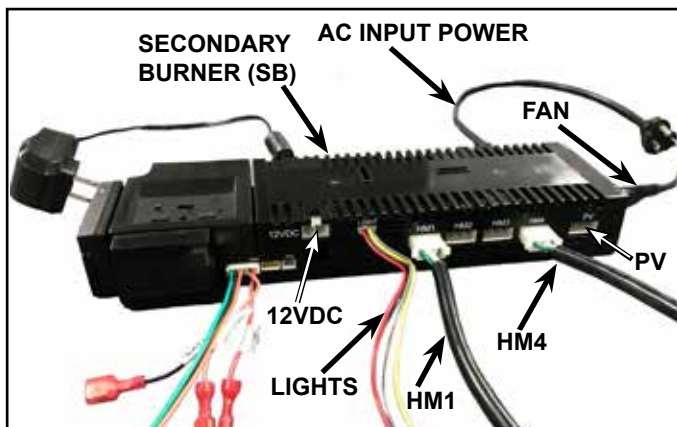


Figure 4 Fan, Lights, Heat Management and Power Vent Connections

- The IFT2-PACM can provide power to HHT approved kits including fan, lights, power vent, four heat management outputs and secondary burner.
  - To connect a 120 VAC fan to the PACM, insert the three-pronged male plug from the fan into the receptacle located on the right side of the PACM as shown in Figure 4.
  - To connect a light kit to the PACM, remove protective rubber cover from the "LIGHT" output, and connect the 4-pin female moxex connector that was supplied with the light kit into the 4-pin male moxex receptacle on the PACM as shown in Figure 4. Make sure that a 12VDC power supply is connected to the PACM "12VDC" input receptacle. Ensure all lights are connected upon power up of ECM.
  - To connect a power vent kit to the PACM, remove protective rubber cover from the "PV" output, and connect the 3-pin female moxex connector that was supplied with the power vent kit into the 3-pin male moxex receptacle on the PACM as shown in Figure 4.
  - To connect a Heat Management kit to the PACM, remove protective rubber cover from the "HMX" where X denotes the HM output numbering as 1, 2, 3 or 4, and connect the 3-pin female moxex connector that was supplied with the heat management kit into the 3-pin male moxex receptacle on the PACM as shown in Figure 4. Refer to heat management kit or appliance instructions for the correct HM port to use. Section 3 of this manual provides further details regarding the functionality of each HM port.
  - To connect a secondary burner (SB) kit to the PACM, connect the 2-pin female moxex connector that was supplied with the SB kit into the 2-pin male moxex receptacle on the PACM as shown in Figure 4.
- Connect the female end of the AC input power cord that came with the kit into the PACM. Ensure that AC input power cord is securely and fully inserted into the PACM. Plug the three prong male end of the AC input plug into the junction box of the appliance. Verify that the junction box has 110-120 VAC power. See Figure 4.
- Move the three-position switch on the IFT2-ECM to the REMOTE position. The green LED will blink three times. A few seconds later, an audible "beep" will occur to indicate that the system is ready.

## D. Re-Pairing existing IFT2-RC450 after adding IFT2-PACM, blower kit, light kit or power vent

**NOTICE!** Pairing the IFT2-RC450 to the IFT2-ECM is **NOT REQUIRED** when adding the IFT2-PACM. Connect the AC input power and peripheral accessories to the IFT2-PACM, then move the IFT2-ECM slider switch to the REMOTE position. The IFT2-ECM and IFT2-RC450 will automatically detect connected peripheral accessories.

Successful pairing will be indicated by a double beep from the ECM.

**NOTICE!** During re-pairing, some versions of the IFT2-RC450 may display “Now pairing remote to product” before being able to reach the diagnostic menu on remote. This message will impair the ability to access the pairing ICON button. See Figure 5.

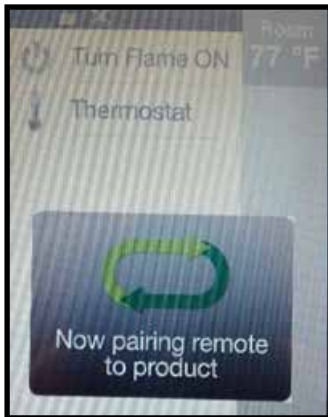


Figure 5 Pairing Remote

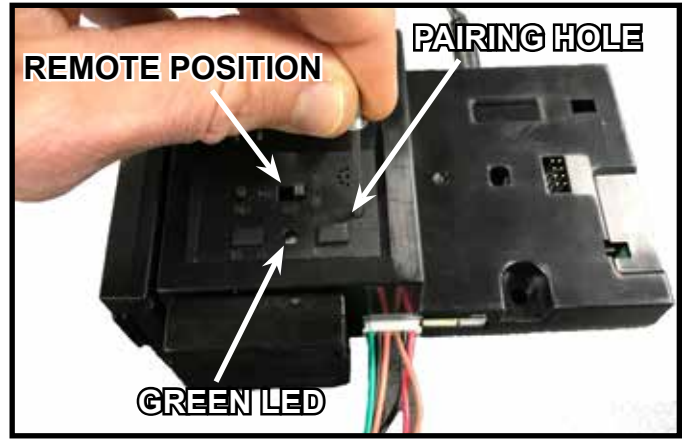


Figure 6 Pairing IFT2-ECM



Figure 7 IFT2-RC450 Wall Mount / Pairing Screen

### If the “Now pairing remote to product” icon occurs:

1. Verify that all the wire connections are complete, and verify that the PACM is powered by 120 VAC.
2. On the IFT2-ECM, move the ON/OFF/REMOTE switch to the REMOTE position. The green LED will blink three times. A few seconds later, an audible “beep” will occur to indicate that the system is ready.
3. Locate reset button on back of the RC450 (opposite from “P” hole). Press and release the reset button with a paper clip (or similar object).
4. Locate the pairing hole on the ECM. See Figure 6. Using a paper clip or similar item, press and release the pairing button. The ECM will “beep” once and the green LED blink for 14 seconds. During the 14 seconds, it is normal for accessories such as lights or fan to energize momentarily.
5. As soon as the main screen appears, tap on the gray indicator bar on the top edge of the screen display. Next, immediately tap the pairing icon as shown in Figure 7. Successful pairing will be indicated by a double beep from the ECM.

# E. Wiring Diagram

Refer to appliance Installation Manual for product specific wiring diagram.

## IntelliFire Touch® 2.0 System Wiring Diagram

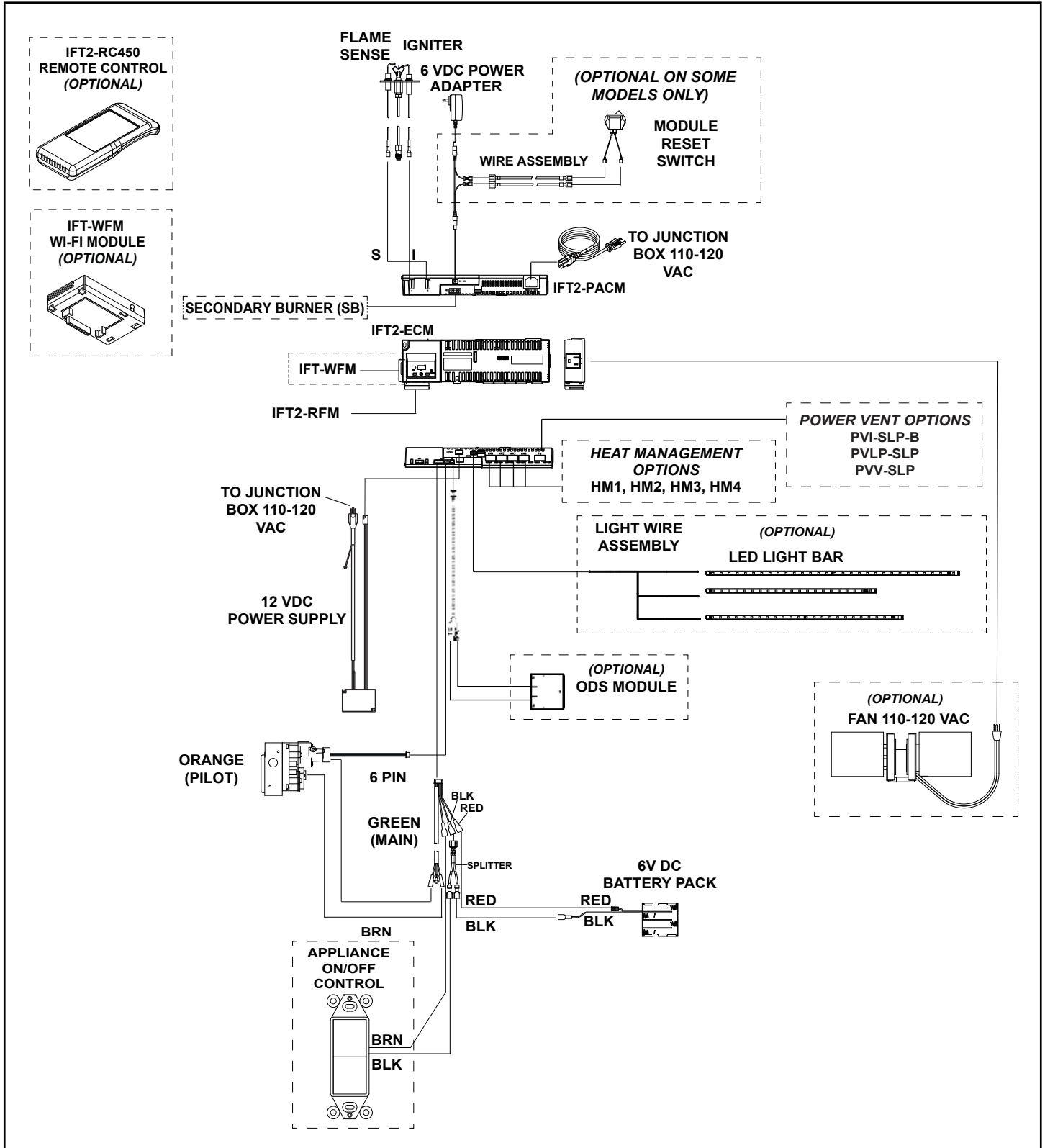


Figure 8 Wiring Diagram

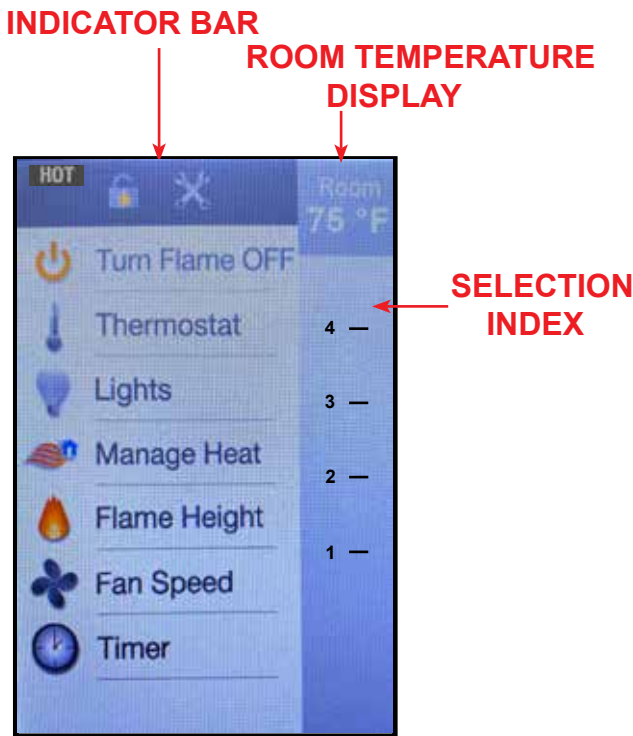
### 3. Operation

#### Introduction

This user manual serves as a quick reference to the screen, functions and indicators on your IntelliFire Touch IFT2-RC450 Remote control.

A remote control is not included with this kit. An RC450 remote is recommended to get maximum usability from the system. The remote will automatically configure to control the installed accessories as shown below.

#### SCREEN



#### FUNCTIONS

##### Turn Flame On/Off

Toggle this function to turn ON or OFF your appliance.

**NOTICE!** If your appliance is equipped with a Power Vent, the flame will come on after the programmed pre-purge delay.

##### Thermostat

**NOTICE!** This feature is only available for use on heater-rated appliances. Decorative appliances are shipped from the factory with the thermostat function disabled.

You can set and maintain your desired room temperature with the thermostat function. This function automatically adjusts your appliance to maintain the desired set temperature (ST).

To achieve the most accurate thermostat function, place your remote control in the same general space that you want to have the temperature controlled by your appliance. For best results, keep your remote control away from direct radiant heat from the appliance, adjacent windows and doors, HVAC vents, and direct sunlight.

To use the thermostat function, access the main menu screen on your remote, and select thermostat. Next, select your desired set temperature and press SET to confirm the setting. The actual room temperature (RT), measured by your remote control, will be displayed in the upper right corner of the main menu screen. To turn the thermostat function off, select thermostat on the main menu screen and select OFF in the bottom left corner of the temperature setting screen.



The thermostat function will automatically adjust the flame height based on the difference between the RT and the ST. As the RT rises closer to the ST, the flame height will automatically adjust down.

During thermostat use, a manual adjustment of your flame height will result in the control exiting the thermostat mode and entering the standard on/off mode.

# FUNCTIONS

## Thermostat with Heat Management

Depending on the HM1-HM4 PACM outputs your appliance is using, the control will adjust the flame height and the blower settings (when applicable) to better maintain a consistent heating value.

## Flame Height

You can set your desired flame height level to affect the ambiance and control the heat output.

Your appliance will remember the previous flame height setting and adjust the flame to that level 10 seconds after start.

## Timer

For your convenience a timer can be set up to 180 minutes to turn off your appliance. The timer will turn the flame off automatically at the selected preset time.

To use the timer function, press “Timer” on the main screen, select time by using the numeric keypad, then press “Set.” To turn the timer off, select timer from main screen and select OFF.

## Child Lock

A child lock is available underneath the battery cover. When the lock is enabled, the screen will lock and no functions can be selected. The lock icon will appear on the remote control.

## Lights\*

If your appliance is equipped with lighting features, use this function to adjust them to your desired intensity. The lights can be adjusted whether the flame is on or off.

## Accent Lights

If your appliance is equipped with either clear lights or colored lights, you can use this function to adjust the intensity and colors.

If the appliance has the color accent lights, you can adjust the color selection as well as run the “Color Cycle” which is a lighting mode that cycles through all available colors.

## Heat Management

### Heat-Zone (HM1)

If your appliance offers heat management and you wanted to have a Heat-Zone option, it would be connected to the HM1. HM1 will automatically turn on the heat zones when the IFT2-ECM tells the heat zone to turn on. There is no fan speed adjustment on the HM1.

### Heat-Out (HM2)

If your appliance offers heat management and you wanted to have a Heat-Out option, it would be connected to HM2. This IFT2-ECM will automatically turn on the HM2 if no accessory is connected to the HM1 output. If you have both HM1 and HM2 with proper accessories, you can go back and forth between HM1 and HM2. It will always start on HM1, there is no fan speed adjustment on the HM2.

### Heat-Zone (HM3)

If your appliance has an adjustable Heat-Zone-Gas option, it would be connected to the HM3 output. This output will give the customer the ability to adjust the Heat-Zone-Gas three speeds and on or off.

### Heat-Out (HM4)

If your appliance has an adjustable Heat-Out option, it would be connected to the HM4 output. This output will give the customer the ability to adjust the Heat-Out three speeds and on or off.

## FUNCTIONS

### Fan Speed\*



If your appliance is equipped with the fan feature, use this function to increase or decrease the amount of heat released into your room. A built-in delay timer will turn the fan on three minutes after your appliance has been running to prevent cool air from being pushed into the room. If the flame is turned off with the fan ON, the fan will continue to run for 12 minutes then shutdown as long as the flame stays off.

Your appliance will remember the previous fan speed setting and automatically adjust to that level 3 minutes after start-up.

### Power Vent\*



Power Vent technology makes it possible to install a gas appliance virtually anywhere. The Power Vent is a fan powered accessory that pulls exhaust from the appliance providing longer and more flexible venting configurations. A Power Vent is a standard accessory on some products and an option on others. When a Power Vent is detected, a pre-purge of 120 seconds is automatically required. During this time, the power icon is temporarily replaced with 2min, 90s, 60s, and 30s, denoting the countdown until the appliance turns on. All other functions, except for TURN FLAME OFF are disabled during this time.

The Power Vent is always ON when the flame is ON. When the flame is turned off, a post-purge time of approximately 20 minutes will occur.

Cold-climate function and battery backup are disabled if a Power Vent is used.

**Note:** PRIMO-II series appliances operate with the same technology as described above, with the power vent integrated directly into the appliance.

\* = Optional Feature

## INDICATORS

### Temperature Display



You can toggle the temperature display between °F and °C by tapping on the Room Temperature display.

### HOT



This indicates that the appliance is still hot for 20 minutes after the appliance is turned off.

### Diagnostics Menu



Tap anywhere in the gray indicator bar area to display all functions below. When red, it indicates an error has been detected.

### Cold Climate



This function turns on a small pilot flame and keeps the air inside your appliance warm while not in use. It is a useful feature in colder weather to minimize condensation on the appliance glass.

**NOTICE!** This feature is disabled when a Power Vent is installed on the appliance.

**NOTICE!** The continuous pilot will automatically turn OFF after 166 hours if appliance is not actively used. If Flame ON is activated before 166 hours, the automatic timer will re-start.

### Remote Control Battery



Remote control battery life indicator. If the batteries on your remote are low, a notification will display on the screen asking you to “Replace Remote Batteries” or “Must Replace Remote Batteries to Operate Appliance”.

Refer to Replace Remote Batteries Section.

**NOTICE!** To extend the time between replacing batteries, Lithium Ion and rechargeable NiMH AAA batteries can be used.

# INDICATORS

## Backup Battery



The battery life indicator is for a backup power source for the IFT2-ECM located inside your appliance. It is intended to operate the appliance in the event of a power failure. Consult your owner's manual for your appliance on how to utilize this feature.

Batteries should only be used as an appliance power source in the event of a power outage. Batteries should not be used as a primary long-term power source.

**NOTICE!** Battery backup is not available if a Power Vent is installed.

## Pairing



When the pairing icon is green, it indicates that the remote is paired to your appliance and can operate it. If the pairing icon is gray, the RC450 is not paired to an IFT2-ECM. Please contact your dealer and report this issue.

## Call Dealer - Pilot Flame Error



Your appliance has been disabled. Please contact your dealer and report this issue. Refer to troubleshooting guide.

## Call Dealer - Appliance Safely disabled



Your appliance has been disabled. Please contact your dealer and report this issue.

## Call Dealer - Power Vent Error



Your appliance has detected that a Power Vent is not functional. Please contact your dealer to report this issue.

## Call Dealer - Heat Management Error



Your appliance has detected that a Heat Management blower or fan is not functional. Please contact your dealer and report this issue.

## Sorry your appliance did not start. Try again by pressing Flame On.



Your appliance did not start during the last Flame On command. Verify that you have power and gas to your appliance. Press the Turn Flame ON icon again, verify that the appliance accepts command with an audible beep, and turns on the flame within 90 seconds.

## Fan will turn on within 3 minutes



Your appliance has a built-in delay that prevents the fan from operating within the first 3 minutes of operating the appliance. This allows the air to be heated to a comfortable temperature before the fan circulates it.

## Remote Control Communication Error



Your remote control is not able to communicate with your appliance. Verify that you have power to your appliance. If there is a power outage, verify that appliance battery backup is fitted with new batteries. After taking these actions, communication can be re-established by pressing the screen to activate the remote control. It may take several minutes for remote control to re-establish pairing.



# INDICATORS

## Replace Remote Batteries



OR

## Must Replace Remote Batteries to Operate Appliance

Your remote batteries are low. Recommend immediate replacement before using remote to control appliance.

## Maintenance



Your appliance will remind you to schedule routine service after 300 hours of Flame ON time is accumulated. Please contact your dealer for a 300 hour inspection to ensure your appliance is operating at peak performance.

1. Wake-up your remote control display by touching anywhere on the touch screen.
2. Tap the “Dismiss” Icon. The system will reset the maintenance reminder. Tap “Main Menu” to return to the main menu.

## 4. Frequently Asked Questions/Troubleshooting

**NOTICE!** Please contact your Hearth & Home Technologies dealer if the Corrective Actions do not resolve the issues with your appliance.

Symptom	Possible Cause	Corrective Action
The appliance does not respond to commands from the RC450 or display does not light up when screen is touched.	Batteries are depleted.	Install NEW batteries.
	Batteries are incorrectly oriented.	Verify batteries are installed in correct orientation as shown on batteries receptacle.
The display on RC450 lights up when screen is touched but it does not respond to commands.	Touchscreen has lost calibration.	Touchscreen needs to be recalibrated. Follow steps from IFT2-RC450 Installation Instructions to recalibrate the screen.
	Child Lock is ON.	Check child lock icon located at the top of the RC450 display. If ON, it will show as a "locked" symbol. To unlock, remove battery compartment door, locate child lock switch and move to "unlock" position. Verify child lock icon on screen is now displayed in "unlock" position.
The RC450 emits a constant beep when batteries are inserted	One (or more) of the 4 inserted batteries has a very low charge.	Replace all 4 batteries with new, brand name quality batteries.
	One of the battery terminals is misaligned.	Visually inspect the battery terminals for misalignment or damage. If damaged beyond basic repair, replace the RC450.
The RC450 displays the following message on-screen: No dealer info available	Dealer information is not programmed into the RC450.	The RC450 will still provide all available functions, and appliance is fully available for use. Call dealer to have them program the RC450.
The RC450 displays the following message on-screen: Call "Dealer Name & Number" to schedule maintenance.	The appliance maintenance reminder after a 300 hour of operation.	The appliance is still functional but is due for a 300 hour regular maintenance check. Call your dealer to schedule the maintenance check for the appliance or press "dismiss" and the 300 hour maintenance check will reset.
Thermostat function does not appear to be controlling room temperature properly.	The RC450 is placed at a very short distance or too far away from the appliance.	Try to keep the RC450 close to the appliance but not directly in front of it. The RC450 acts as the room temperature sensor when in thermostat mode.
	RC450 is placed in the path of an air draft or vent.	Move the RC450 away from the direct path of air flow. The RC450 acts as the thermostat room temperature sensor.
	Flame Modulation	The IFT system is designed to automatically adjust the flame intensity based on the difference between the desired room temperature, and actual temperature. In thermostat mode, the hearth appliance will start in HIGH flame, but as the actual temperature approaches the desired set temperature on the remote, the flame intensity will automatically decrease. Automatic flame modulation will result in more control of the temperature, but will cause the appliance to cycle OFF/ON less.
The appliance turns OFF the flame after extended periods of operation.	9 hour safety shutdown timer	This is normal behavior. The appliance has a safety timer that will automatically turn OFF the flame after nine hours of continuous operation.
The RC450 displays the following message on-screen: "Fan will turn on within 3 minutes".	Functioning as intended.	The appliance has a three minute delay timer before the fan is turned ON. This allows the air surrounding the appliance to be heated before being pushed into the room.

## Frequently Asked Questions/Troubleshooting (*continued*)

Symptom	Possible Cause	Corrective Action
The RC450 displays the following message on-screen: "Replace Remote Batteries" or "Must Replace Remote Batteries to Operate Appliance".	Low batteries in the RC450.	Install new batteries in the RC450.
The RC450 is displaying an incorrect brand.	The RC450 was programmed incorrectly.	Call dealer to have them program the RC450 with correct branding. The RC450 is still fully functional and the appliance is unaffected.
After turning flame ON using the RC450, the flame does not turn ON immediately and instead a two minute timer is displayed.	Power Vent or convection blower is installed on the appliance.	This is expected behavior and the two minute timer is called a pre-purge timer. The flame will turn ON at the expiration of the timer.
The IFT2-RC450 displays the following message on-screen: "Appliance safely disabled. Call dealer for service".  In addition the LED indicator on the ECM will flash twice red and once green indefinitely.	Ignitor wires (orange) or flame sense wire (white) is shorted to chassis ground.	Verify that pilot sense and ignitor leads are not shorted to chassis ground and the protective covering has not melted or is cut. Replace pilot if necessary.
	The IFT2-ECM is unable to sense flame due to Contamination on flame sensing rod.	Measure pilot sense lead resistance. If more than 1 Ohm, clean flame sensor rod with fine steel wool and measure resistance again. If resistance still > 1 ohm, replace pilot.
	Ignitor and sense wires are incorrectly wired.	Verify that the sense lead (white) is securely terminated to the "S" terminal on the IFT2-ECM, and that the ignitor lead (orange) is terminated to the "I" terminal on the IFT2-ECM
	Pilot appears to be "missing" sparks from the ignitor.	Verify that pilot sparks 8 seconds ON, 2 seconds OFF, and discharges consistently between the hood and the ignitor electrode. Verify spark gap is 0.095 to 0.135 inches, and adjust if necessary.
The RC450 does not pair or unpair from the ECM.	The IFT2-ECM is not connected to its power source.	Verify the IFT2-ECM is connected to power and the three position switch is set to REMOTE. If operating from the battery backup, ensure that all four batteries are NEW.
	Noisy radio environment is preventing the IFT2-ECM and RC450 from communicating.	The IFT2-ECM and RC450 operate on the 915MHz radio band. Allow up to 10 minutes for the IFT2-ECM and RC450 to establish contact. If the problem does not get resolved try powering OFF and ON both the IFT2-ECM and RC450 and repeat the pairing process.
The RC450 displays the following message on-screen: "Remote Control Communication Error".	No power to Appliance.	Verify home circuit breaker is on and master reset is on (if equipped).
	Power Outage	Check power to appliance or if the IFT2-ECM battery backup is being used, install four (4) new AA batteries in backup.
	IFT2-ECM Mode	Verify selector switch in "Remote" mode.
	IFT2-ECM Power	Verify the IFT2-ECM connected to AC adapter and AC adapter is plugged into the Junction Box.
	IFT2-ECM no longer paired to RC450.	Follow instructions on pairing RC450 to the Electronic Control Module (IFT2-ECM).

## Frequently Asked Questions/Troubleshooting (*continued*)

Symptom	Possible Cause	Corrective Action
The PACM does not respond to commands from the RC450.	PACM was newly installed and not paired.	Make sure that the pairing procedure has been followed especially if the PACM was newly installed.
	The power cord between PACM and junction box is disconnected.	Make sure the power cable is properly inserted into the PACM and the junction box.
	PACM and ECM are not latched.	Check the connection between the PACM and ECM by making sure they are latched together.
RC450 display the following message on-screen: "Call Dealer Error: Fan".	Convection blower malfunction.	Using an RMS voltage meter, check the voltage coming out of the FAN output on the PACM when the fan is set to highest level on the RC450. If the voltage measured is close to 120VAC then power down the appliance and install a new fan and verify if the issue has been resolved.
	Fuse in PACM is blown.	Using an RMS voltage meter, check the voltage coming out of the FAN output on the PACM when the fan is set to highest level on the RC450. If voltage measured is closer to zero, then replace the PACM.
	PACM is not responding to RC450.	If used with an PACM, ensure the PACM has 120 VAC power. If required, re-pair the RC450 to the ECM. If used with a PACM, ensure the PACM has 120 VAC power. Then power cycle the ECM to OFF and back to REMOTE.
	Fan is not plugged into PACM.	Check wiring and connections.
	Spade connectors are miswired.	Some fans may be connected to the PACM using spade connectors. For safety, turn off the power to the appliance and check to see if the wires on either end of the spade connector do not match in color as they might be miswired.
The flame height setting on the RC450 does not function properly.	Stepper motor is not connected or is malfunctioning.	Check if the 4 pin wiring harness from the stepper motor is connected to the IFT2-ECM.
Appliance lights do not function.	Colored or Clear LED Lighting malfunction.	Using an RMS voltage meter, check the voltage coming out of the LIGHT output on the PACM when the lights are set to highest level on the RC450. If the voltage measured is close to 120VAC then power down the appliance and install a new light kit and verify if the issue has been resolved.
	Fuse in PACM is blown.	Using an RMS voltage meter, check the voltage coming out of the LIGHT output on the PACM when the lights are set to highest level on the RC450. If voltage measured is closer to zero, then replace the PACM.
	PACM is not responding to RC450.	Follow steps listed in the second symptom.
	Lights are not plugged into PACM.	Check wiring and connections.
	LED controller is not functioning.	Some appliances come with an LED controller that plugs into the LIGHT output on the PACM. Verify its wiring and that it is functioning and if not replace it and verify if the problem is resolved.

## Frequently Asked Questions/Troubleshooting (*continued*)

Symptom	Possible Cause	Corrective Action
RC450 displays the following message on screen: "Sorry your appliance did not start. Try again by pressing Flame On".	No gas to appliance. Accumulation of air in gas line from extended period of appliance inactivity. Gas control system failure.	Verify that appliance has power and gas. Verify that the appliance accepts flame ON commands with an audible beep, and successfully turns flame on within 90 seconds. If this failure persists, contact dealer for service.
Power Vent Error	Faulty Power Vent Blower	Replace Power Vent Blower. Clear Error Message requires the On/Off/Remote switch to be moved to Off for 3 seconds before moving back to Remote.
	Vacuum switch or wire connection faulty	Check wire and vacuum switch continuity with digital voltmeter. Clear Error Message requires the On/Off/Remote switch to be moved to Off for 3 seconds before moving back to Remote.
	Vacuum switch negative air pressure chatter.	Check wire and vacuum switch or reduce wind disturbance with baffle. Clear Error Message requires the On/Off/Remote switch to be moved to Off for 3 seconds before moving back to Remote.
Pilot Flame Error	Flame sense rod or wire shorted to DC ground (chassis ground).	Locate short and repair.
	Faulty pilot assembly.	Replace pilot assembly.
	Flame sense wire disconnected.	Verify Flame sense wire connected.
Hard Lockout Error	Verify hard code lockout (RC450 error condition described, and red/green LED flash condition on the ECM)	Your appliance has been safely disabled. Please contact your dealer for service.
Pilot and main do not light, ECM goes into 6 Red/1 Green Lockout.	Heat Management (HM) Failure	Heat Management blower defective. Check wiring to IFT-ACM or IFT-PACM. Check if blower is receiving power from the IFT control and freely spinning.

Please contact your Hearth & Home Technologies dealer with any questions or concerns.

For the location of your nearest  
Hearth & Home Technologies dealer,  
please visit [www.hearthnhome.com](http://www.hearthnhome.com).