IFT-ACM
IntelliFire™ Touch Auxiliary Control Module
Installation Instructions

HEARTH&HOME
technologies

Leave this manual with party responsible for use and operation.

1. Introduction

The IntelliFire™ Touch auxiliary control module (IFT-ACM) is an AC powered device that controls peripheral devices such as lights, fans and Power Vents approved for use in Hearth & Home Technologies products that are equipped with Intellifire™ Touch technology. It is connected to and controlled by the Intellifire™ Touch Electronic Control Module (IFT-ECM).

2. IFT-ACM Installation

A. Precautions

This device is tested and safe when installed in accordance with this installation manual. Do not install any components that may be damaged.

Do not modify, disassemble, or substitute any of the components included with this kit. Installation of this unit must be done by a qualified service technician.

The location of this device may affect performance. An assessment of the location should be done prior to installation for optimum performance.

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. Determine Location

The IFT-ACM latches to the IntelliFire™ Touch electronic control module (IFT-ECM). Remove any material or objects in the immediate vicinity of the vents on the IFT-ACM. These vents allow the IFT-ACM to dissipate excess heat into the air.

The IFT-ACM is approved for interior installation only and should not be used in exterior installations.

Any additional peripheral devices such as lights, fan and/or Power Vent must be installed as shown in the appliance manual.

C. Kit Contents

• IntelliFire™ Touch Auxiliary Control Module (IFT-ACM)

• Power cable that connects AC receptacle to IFT-ACM

• 1 inch sq. Piece of Velcro

D. Installation Steps

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 IFT-ECM in the control cavity of the appliance and move the three-position switch to the OFF position. See Figure 1.

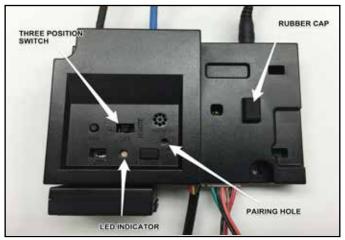3. Remove protective rubber cap from connector on the top of the IFT-ECM. See Figure 1.

Figure 1. IFT-ECM

4. Attach velcro included with the IFT-ACM to the bottom of the ACM. See Figure 2.

5. Connect the IFT-ACM to the IFT-ECM by aligning the pins and tabs and pushing the IFT-ACM into the IFT-ECM until both tabs latch in place. Ensure the IFT-ECM and IFT-ACM are aligned with each other and fastened securely. See Figure 2.
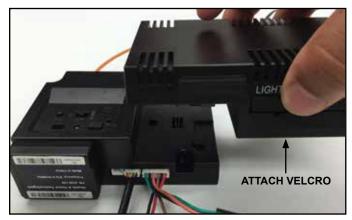

Figure 2. Connecting IFT-ACM and IFT-ECM

***WARNING! Risk of Shock! DO NOT** touch male pins. Leave rubber cap on all ports unless port is being connected to a lead.*

6. The IFT-ACM can provide power to HHT approved kits including fan, lights and power vent.

   • To connect a fan kit to the IFT-ACM, insert the three prong male plug from the fan into the receptacle located on the right side of the IFT-ACM. See Figure 3.

   • To connect a light kit to the IFT-ACM, remove protective rubber cap labeled 'LIGHTS' and connect to the female cord that was supplied in your lights kit into the three male pins on the IFT-ACM. DO NOT touch the three male prongs with your bare hands as this can be a shock hazard. See Figure 3.

   • To connect a power vent kit to the IFT-ACM, remove protective rubber cap labeled 'AUX' and connect to the female cord that was supplied in your power vent kit into the three male pins on the IFT-ACM. DO NOT touch the three male prongs with your bare hands as this can be a shock hazard. See Figure 3.
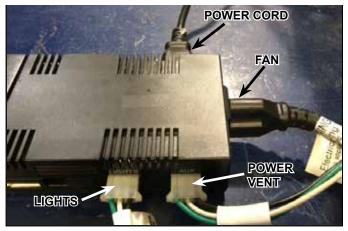

Figure 3. Fan, Lights and Power Vent Connection

7. Connect the female end of the power cable that came with the kit into the IFT-ACM. Plug the three prong male plug into the junction box of the appliance.

8. Verify that the junction box is securely mounted to the appliance chassis.

9. Now you are ready to pair the IFT-ACM with the IFT-ECM. You must perform this pairing process even if you had previously paired the IFT-ECM with an IFT-RC150 or IFT-RC400. See Section 2E.

10. After pairing is complete, you can verify that the IFT-ECM recognizes the IFT-ACM with the kits that were also installed by observing the IFT-RC400 screen. If you installed a fan or light kit, it will show up on the screen. The fan will only be displayed when the flame is ON as this feature is only accessible when the flame is ON. You can verify you have a Power Vent by turning the flame ON using the IFT-RC400 and notice if you have a two minute countdown icon displayed on your respective screen. Only the installed kits will be displayed as the IFT-ACM has a smart detection feature that only activates power to the ports connected to it and disables power to the other ports to avoid electric hazards.

E. Pairing the IFT-RC400 to the Electronic Control Module (IFT-ECM)

CAUTION! Risk of Burns! DO NOT program the IFT Remote Controls to the IFT-ECM when flame or cold climate function is on or when appliance is hot.

1. On the IFT-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.

   Note: If the green LED continues to blink slowly (system is searching for a clear channel), wait until it stops before proceeding to step 2.

2. Locate the pairing hole on the IFT-ECM. See Figure 4 Using a paper clip or similar item, press and release the pairing button. The IFT-ECM will "beep" once and the green LED will blink for 14 seconds. During the 14 seconds, it is normal for accessories such as lights or fan to energize momentarily.

   While the green LED on the IFT-ECM is blinking, tap anywhere on the gray indicator bar located at the top of the IFT-RC400 screen. Tap on the pairing function as shown in Figure 5. If the IFT-RC400 has been paired successfully to the IFT-ECM, a double audible 'beep' will be heard from the IFT-ECM..

3. If the pairing is unsuccessful, repeat steps 2 & 3.

Note: If additional components are added such as blowers, lights or Power Vent after initial pairing, the pairing process must be repeated again to detect additional components.

NOTICE: Only one IFT-RC400 remote control and one IFT-RC150 wireless wall switch can be programmed into an IFT-ECM. To program both an IFT-RC400 and an IFT-RC150 to an IFT-ECM, repeat the same steps separately for the IFT-RC400 and the IFT-RC150.
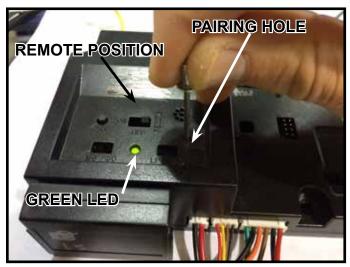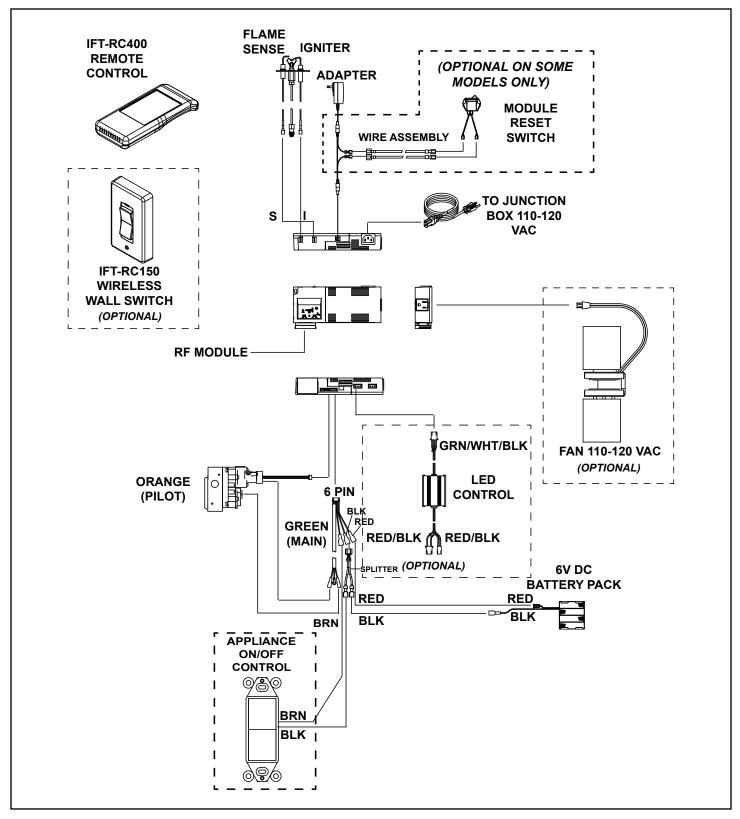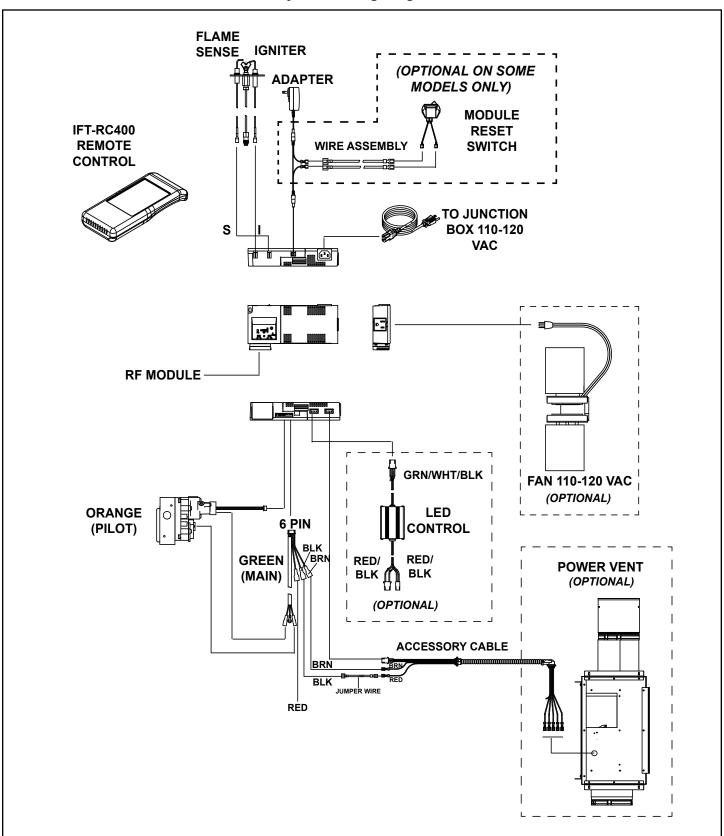

Figure 5. IFT-RC400 Wall Mount / Pairing Screen

Figure 4. Pairing IFT-ECM

F. Wiring Diagram

IntelliFire™ Touch System Wiring Diagram without Power Vent

Figure 6. Wiring Diagram without Power Vent

F. Wiring Diagram *(continued)*

IntelliFire™ Touch System Wiring Diagram with Power Vent

Figure 7. Wiring Diagram with Power Vent

3. Frequently Asked Questions/Troubleshooting

Symptom	Possible Cause	Corrective Action
The IFT-ACM does not respond to commands from the IFT-RC400	If IFT-ACM was newly installed and not paired.	Refer to Section D9 and make sure that the pairing procedure has been followed especially if the IFT-ACM was newly installed.
	The power cord between IFT-ACM and junction box is disconnected.	Refer to Section D6 and make sure the power cable is properly inserted into the IFT-ACM and the junction box.
	IFT-ACM and IFT-ECM are not latched.	Refer to Section D4 and check the connection between the IFT-ACM and IFT-ECM by making sure they are latched together.
IFT-RC400 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 port on the IFT-ACM when the fan is set to highest level on the IFT-RC400. If the voltage measured is close to 120V AC then power down the appliance and install a new fan and verify if the issue has been resolved.
	Fuse in IFT-ACM is blown.	Using an RMS voltage meter, check the voltage coming out of the fan port on the IFT-ACM when the fan is set to highest level on the IFT-RC400. If voltage measured is closer to zero, then replace the IFT-ACM itself
	IFT-ACM is not responding to IFT-RC400.	Follow steps listed in the first symptom.
	Fan is not plugged into IFT-ACM.	Check wiring and connections
	Spade connectors are miswired.	Some Fans may be connected to the IFT-ACM 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.
IFT-RC400 display the following message on-screen: Call Dealer Error: Lights	Ember/backlighting malfunction.	Using an RMS voltage meter, check the voltage coming out of the lights port on the IFT-ACM when the lights are set to highest level on the IFT-RC400. If the voltage measured is close to 120V AC then power down the appliance and install a new light kit and verify if the issue has been resolved.
	Fuse in IFT-ACM is blown.	Using an RMS voltage meter, check the voltage coming out of the lights port on the IFT-ACM when the lights are set to highest level on the IFT-RC400. If voltage measured is closer to zero, then replace the IFT-ACM itself.
	IFT-ACM is not responding to IFT-RC400.	Follow steps listed in the first symptom.
	Lights are not plugged into IFT-ACM.	Check wiring and connections.
	LED controller is not functioning.	Some appliances come with an LED controller that plugs into the Lights port on the IFT-ACM. Verify the wiring and check that it is functioning. If not, replace and verify the problem is resolved.
IFT-RC400 display the following message on-screen: Call Dealer Error: Power Vent	Multiple causes.	Please refer to the troubleshooting guide that came with your Power Vent.
Lights are blinking and/or fan and Power Vent blowers are fluctuating.	Poor quality of power from local power station.	Check with customer if they are also noticing issues with other unrelated appliances and if other lighting fixtures are also blinking/dimming randomly. If so, install a surge suppressor between the hearth appliance and its power source.
IFT-RC400 display 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.

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.

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