

50-4727 Urbana Touch Screen Kit

INSTALLATION TO BE COMPLETED BY QUALIFIED TECHNICIANS ONLY



NOTE - This touch screen kit fully replaces the existing remote control originally supplied with the fireplace. The remote control may still be used if desired but it will no longer be required.

Safety and Handling Precautions

- As glass is fragile. It tends to become or chipped during handing especially on the edges. Please avoid dropping or jarring. Do not subject it to a mechanical shock by dropping it or impact.
- If LCD module is damaged and the liquid crystal substance leaks out, be sure not to get any in your mouth. If the substance contacts your skin or clothes, wash it off using soap and water.
- Do not apply excessive force to LCD module's surface or the adjoining areas since this may cause the color tone to vary. Do not touch the display with bare hands, This will stain the display area and degraded insulation between terminals(some cosmetics are determined to the polarizer).
- If the LCD module's surface becomes contaminated, breathe on the surface and gently wipe it with a soft dry cloth. If it is heavily contaminated, moisten cloth with one of the following solvents, -Isotropy alcohol or Ethyl alcohol; do not scrub hard to avoid damaging the display surface.
- Solvents other than those above-mentioned may damage the polarizer. Especially, do not use the following: water, Ketone, Aromatic solvents. Wipe off saliva or water drops immediately, contact with water over a long period of time may cause deformation or color fading. Avoid contact with oil and fats.
- Exercise care to minimize corrosion of the electrode. Corrosion of the electrodes is accelerated by water droplets, moisture condensation or current flow in a high-humidity environment.
- When mounting the LCD module, make sure it is free of twisting, warping and distortion. In particular, do not forcibly pull or bend the I/O cable or the backlight cable.
- Do not attempt to disassemble or process the LCD module.
- NC terminal should be open. Do not connect anything.
- If the logic circuit power is off, do not apply the input signals.
- Electro-Static Discharge control - Since this module uses a CMOS LSI, the same careful attention should be paid to electrostatic discharge as for an ordinary CMOS IC. To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.
- Since LCM has been assembled and adjusted with a high degree of precision, avoid applying excessive shocks to the module or making any alterations or modifications to it.

Storage Precaution

- Store in a dark place. Do not expose to sunlight or fluorescent light.
- During shipment, please handle with care.
- Liquid crystals solidify under low temperature (below the storage temperature range) leading to defective orientation or the generation of air bubbles (black or white). Air bubbles may also be generated if the module is subject to a low temperature.
- If the whole assembly product has been operating for a long time showing the same display patterns, the display patterns may remain on screen as ghost images and a slight contrast irregularity may also appear. A normal operating status can be regained by suspending use for some time. It should be noted that this phenomenon does not adversely affect performance reliability.

Safety

- If any liquid leaks out of a damaged glass cell and comes in contact with the hands, wash off thoroughly with soap and water.

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Touch Screen Kit Contents

Prior to starting the installation, confirm the received contents of the Urbana Touch Screen Kit:



White touch screen panel



Proflame Dongle Plus
& wire harness

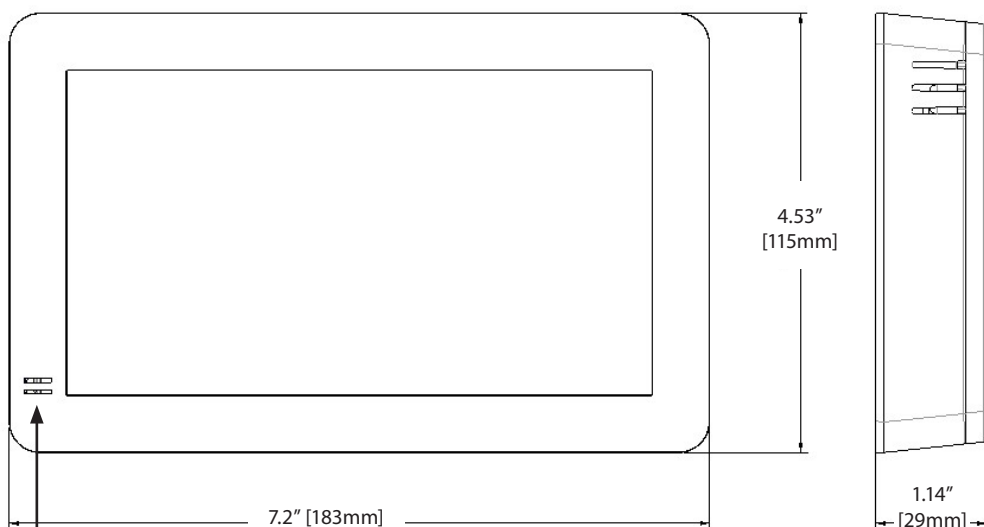


24 VDC transformer
& power wires



30ft x 4 conductor low voltage wire

Touch Screen - Dimensions & Specifications



Room Temperature Sensor - Do Not Obstruct

Technical Data

Supply Voltage: 24 VDC
Current: 150 mA
Ambient Temperature Ratings:
-5°C (23°F) + 50°C (122°F)
Maximum Wire Length: 30ft (9.1m)

Specialty Tools Required

2 x glass suction cup (for outer glass removal)

1 x jewelers flat head screwdriver

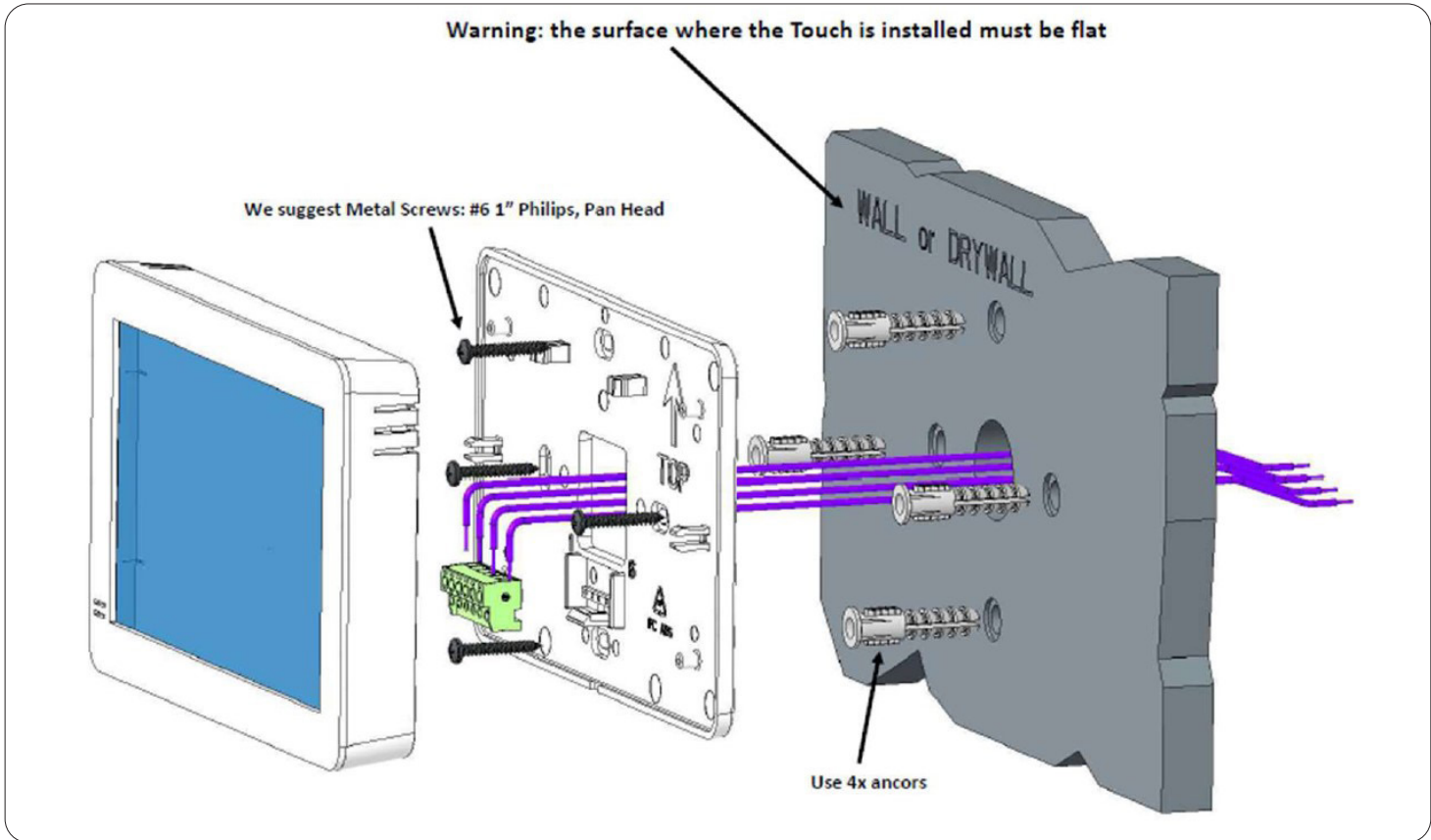
1 x jewelers Phillips screwdriver
(for LED controller replacement)



Touch Screen - Wall Installation

The touch screen must be installed on the wall with the included wall bracket. Install the touch screen 4.9 ft (1.5 m) above floor level, well away from any heat sources, kitchens, doors, or windows. Pick a suitable location that will best register the temperature of the room without influence from other heat sources or drafts.

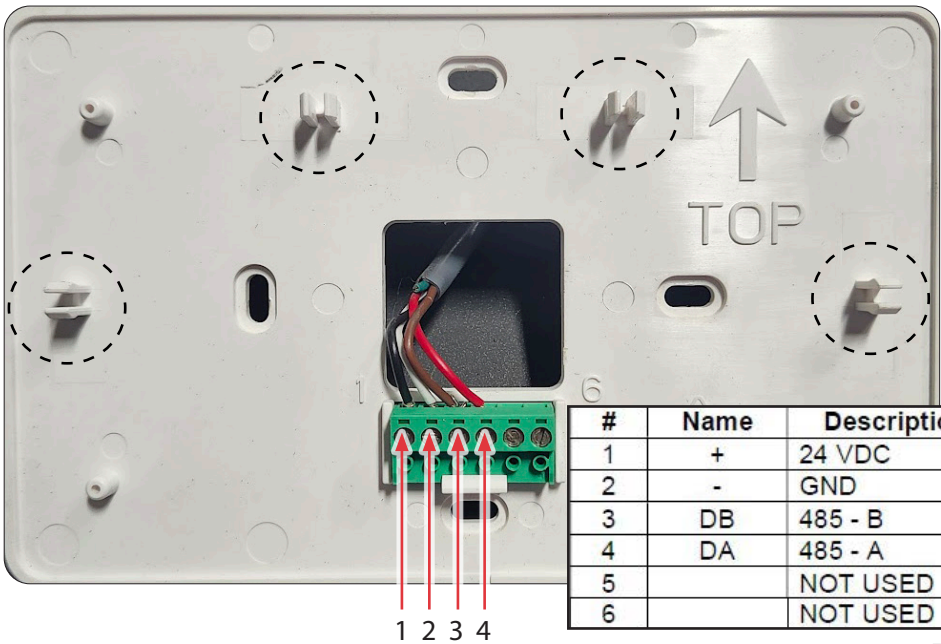
- 1. Separate the touch screen from its wall mounting bracket. The wall bracket is attached by four hidden plastic clips, see circled areas in image below.
- 2. Install the wall bracket on a flat level surface making sure there is no distortion or warping. If installing onto drywall use four wall anchors and four 1 inch long #6 Phillips pan head screws (not supplied).



3. Drill a hole in the wall in the middle of the bracket to route the supplied 4 conductor wire through. Route the other end of the 4 conductor wire to the right side louver area of the fireplace.

4. Connect the 4 conductor wire to the green 6 position terminal block on the wall bracket following the table below. **IMPORTANT** - Make a note of which wire colour is on each position, they will need to match at the fireplace end.

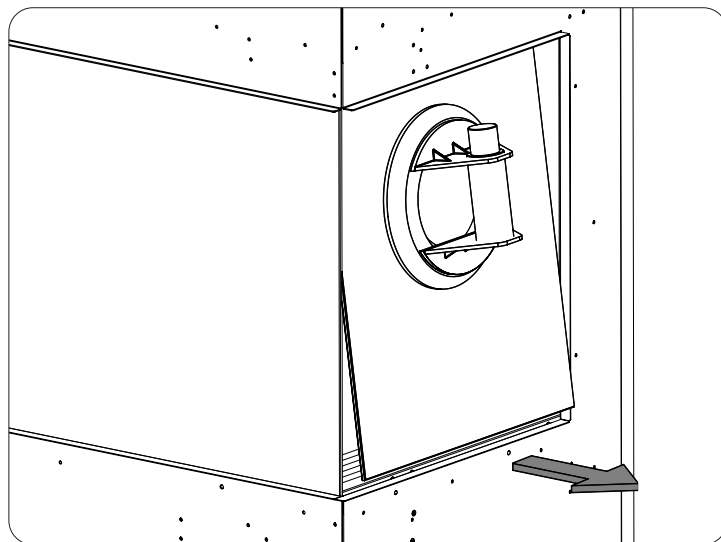
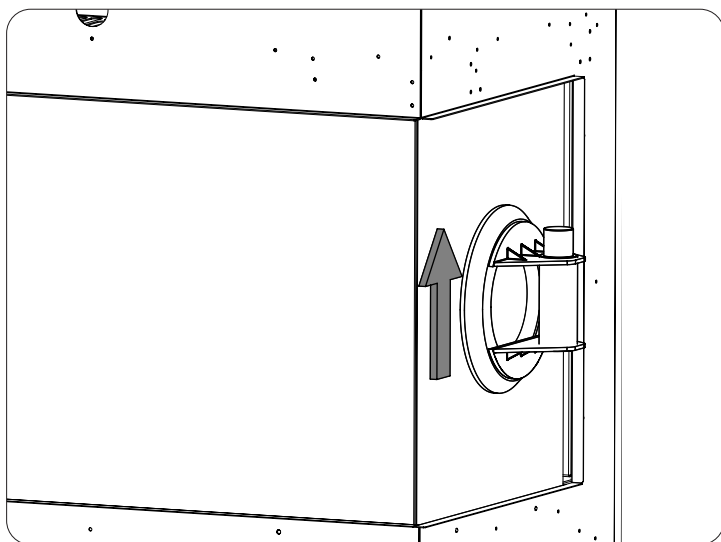
5. Re-attach the touch screen to the wall bracket pressing only along the outer plastic frame. **DO NOT** press on the screen.



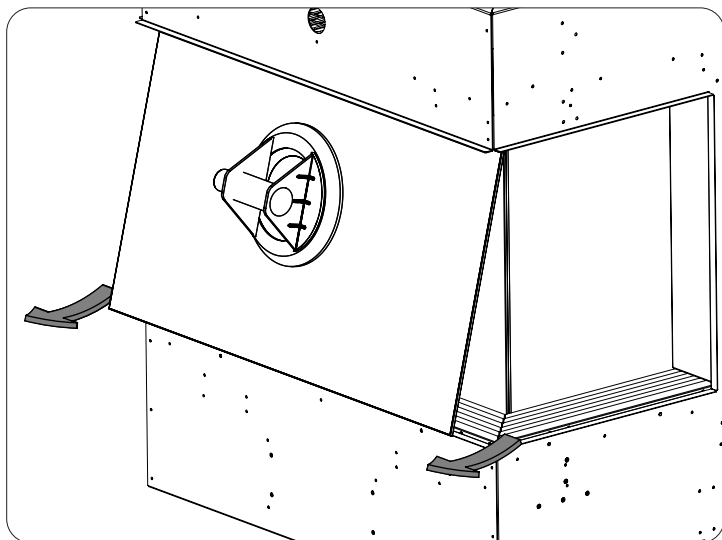
#	Name	Description
1	+	24 VDC
2	-	GND
3	DB	485 - B
4	DA	485 - A
5		NOT USED
6		NOT USED

Fireplace Outer Glass & Louver Removal

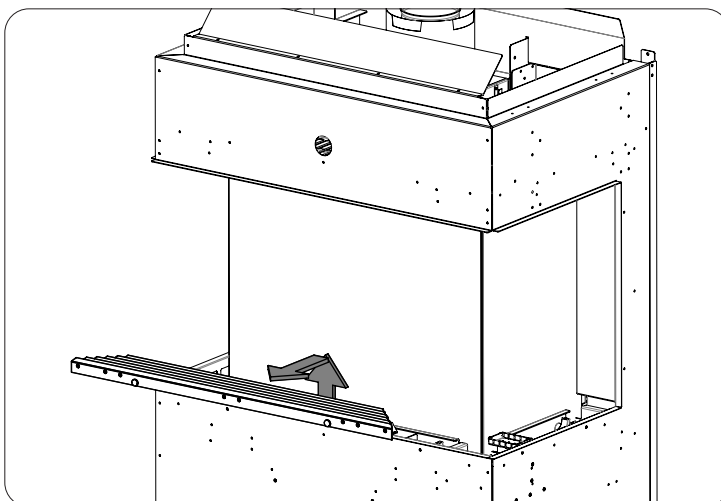
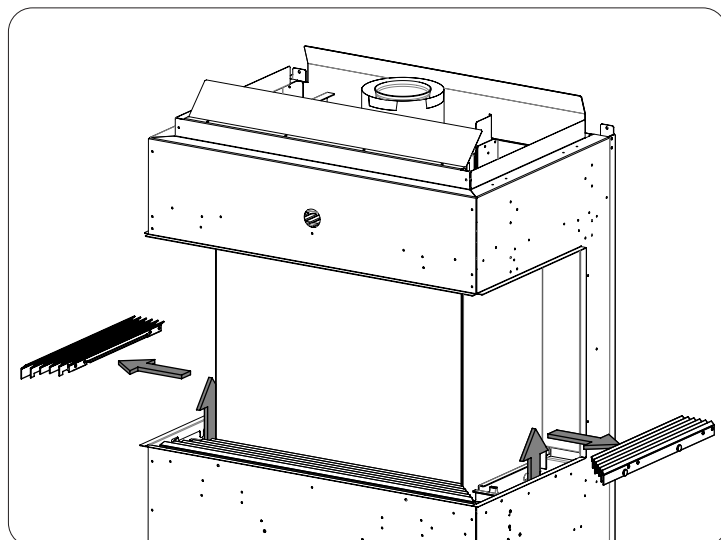
Turn off the fireplace and allow it to fully cool prior to removing the outer glass. The cooling fan(s) will automatically turn off once the fireplace is sufficiently cooled down. **DISCONNECT THE MAIN POWER TO THE FIREPLACE PRIOR TO SERVICING TO PREVENT THE CHANCE OF ELECTRICAL SHOCK.**



Remove the outer right and left side glass from the fireplace using a suction cup, as shown above, by lifting up and out.



Remove the front outer glass assembly using a suction cup as shown, by lifting up and out.

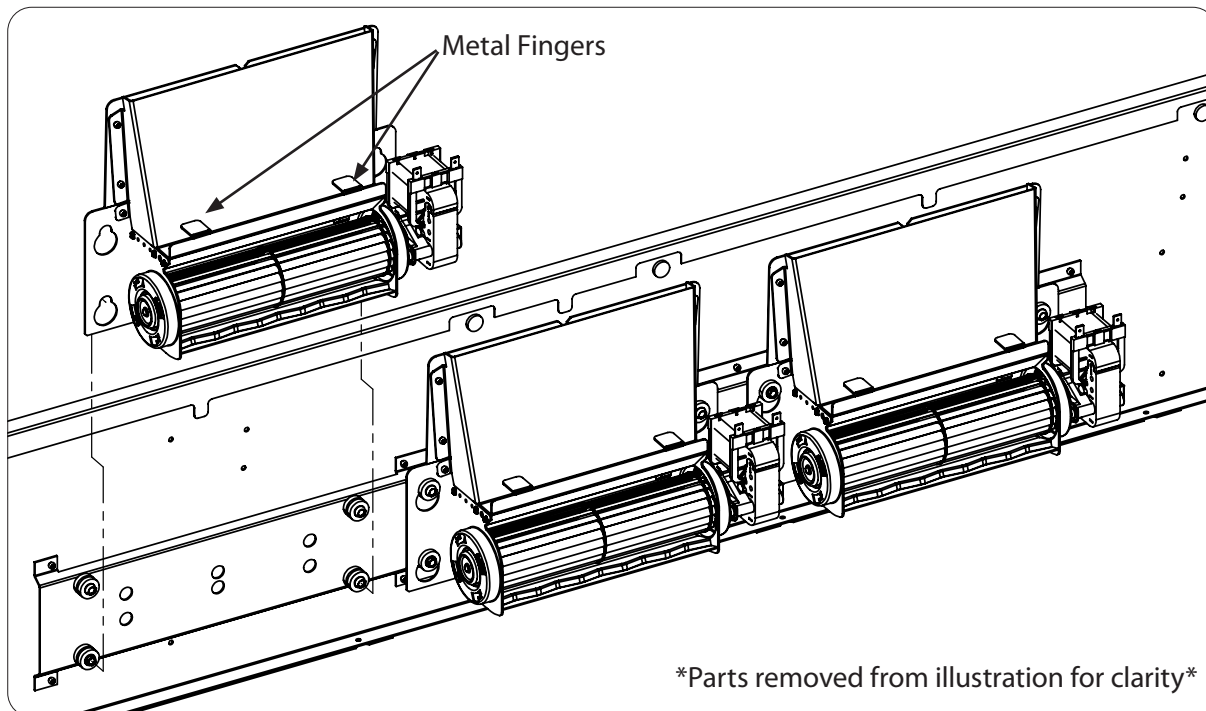


Finally, remove the side louver and front louver assemblies by lifting up and out.

Fan Removal

Once the outer glass and louvers have been removed the far right fan (U50 and U70 models), when facing the front of the fireplace, or single fan (U30 models) will need to be removed to gain full access to the component area below the firebox.

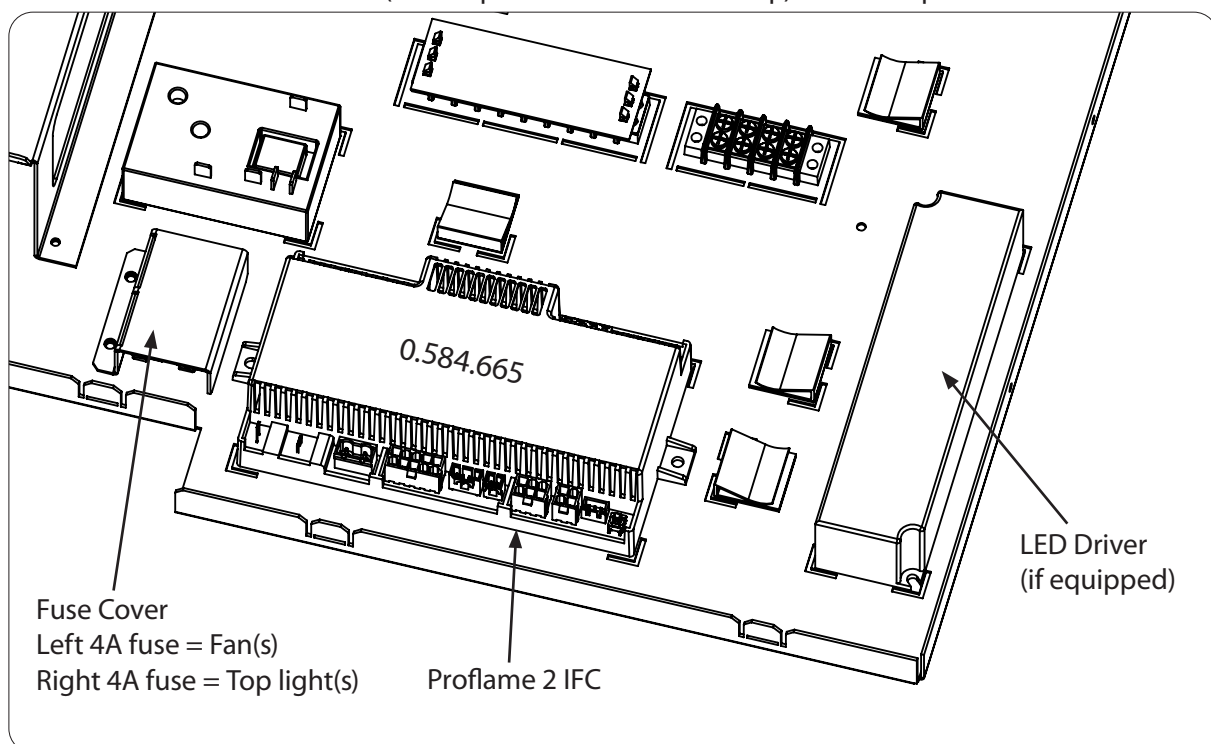
1. Disconnect the black and white power wires running to the fan's motor and remove the wires from underneath the bent metal fingers above the fan's outlet.
2. Remove the fan assembly from the fireplace by lifting it up and out. The fan assembly is mounted on a keyslot bracket for easy removal.



Touch Screen - Fireplace Wiring

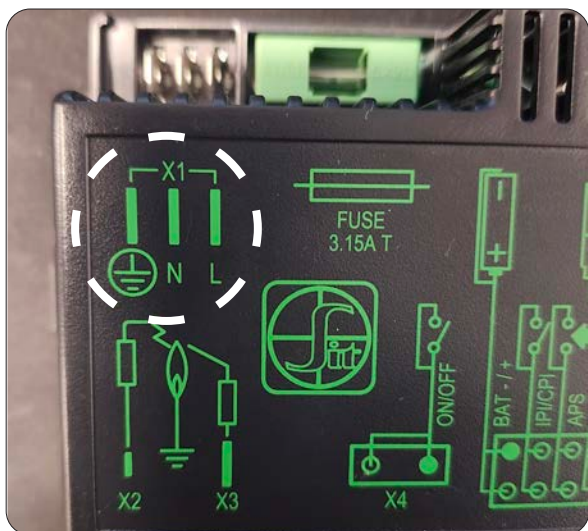
The supplied Proflame Dongle Plus and 24 VDC transformer both wire directly to the fireplace's Proflame 2 IFC located on the component tray directly below the firebox.

Note - Fireplace must have a 0.584.665 IFC (GREEN printed schematic on top) to be compatible with this touch screen kit.



Touch Screen - Fireplace Wiring (cont.)

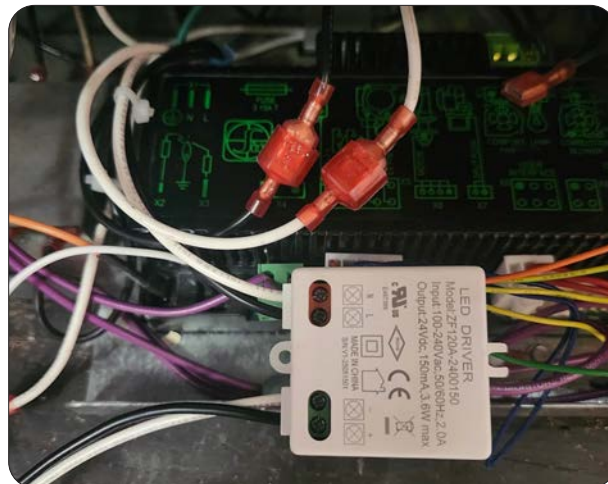
Locate the BLACK and WHITE wires running to the input power side of the IFC (X1 position of the printed schematic on top of the IFC) . Disconnect both wires from the IFC.



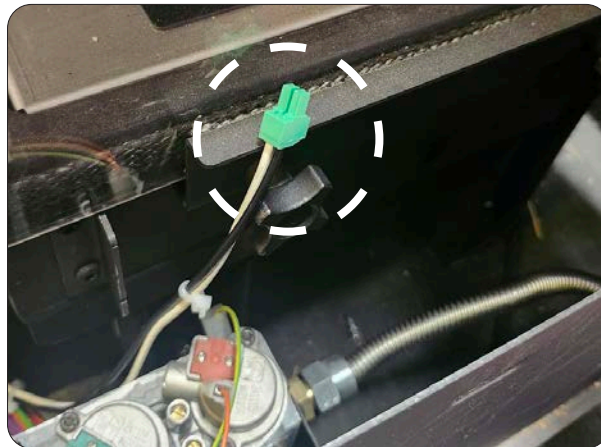
Adhere the 24 VDC transformer to the top of the IFC using the velcro pre-installed on the back.



Connect the RED terminals of 24 VDC transformer wires to the disconnected IFC wires, matching the BLACK and WHITE wires together. Next, connect the BLUE terminals of 24 VDC transformer wires to the IFC X1 terminals:
BLACK to L , WHITE to N

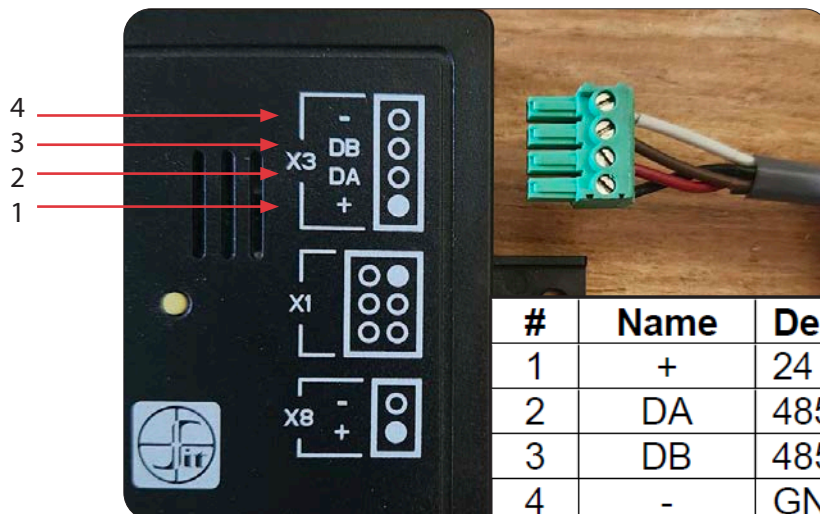


Route the second set of 24 VDC transformer wires, with the GREEN terminal attached, through the lower grommet in the cabinet front side plate and up past the gas valve.



On the Dongle Plus, remove and wire the GREEN X3 terminal to the 4 conductor wire previously routed to the fireplace, by following the table on the right.
IMPORTANT - The wire colour on each position must match the position it was used for at the touch screen end.

Re-connect the GREEN X3 terminal to the Dongle Plus.



#	Name	Description
1	+	24 VDC
2	DA	485 - A
3	DB	485 - B
4	-	GND

Touch Screen - Fireplace Wiring (cont.)

Installation Note - For models equipped with LEDs skip to the next section of this manual "LED Controller Replacement"

Connect the GREEN terminal of 24 VDC transformer to the X8 position on the Dongle Plus. The X3, X1 and X8 Dongle Plus positions should all now be used.



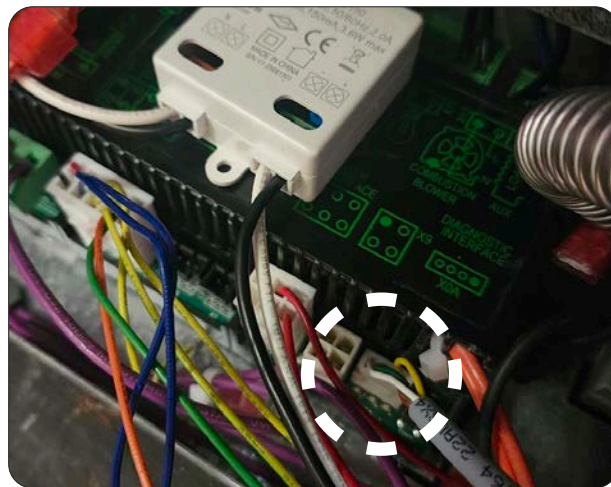
Adhere the Dongle Plus to the right side firebox leg using the velcro pre-installed on the back.



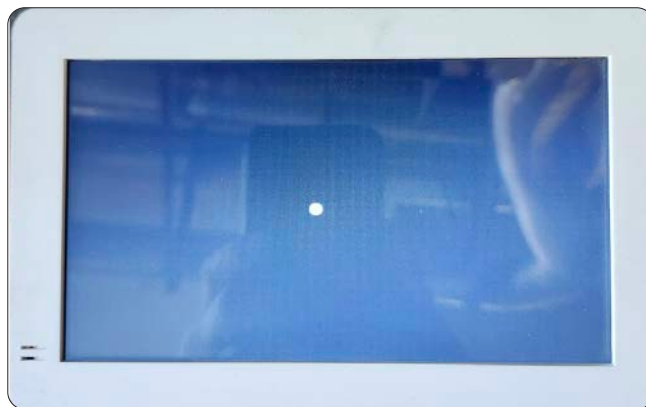
After loading the touch screen should display the home screen and be ready to setup. Re-install the fireplace's fan, louvers and outer glass.



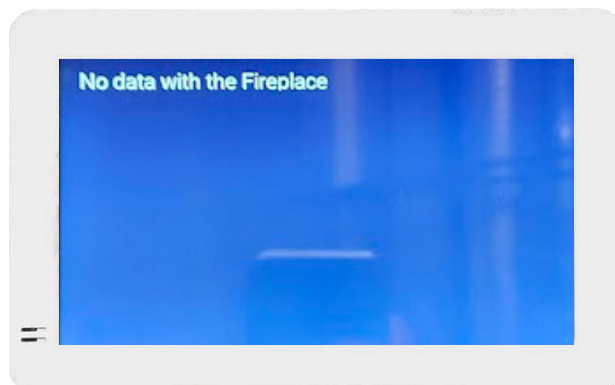
Route the Dongle Plus wire harness through the lower grommet in the cabinet front side plate and connect it to the Diagnostic Interface (X0A) position on the IFC.



Wiring of the touch screen is now complete and power can be restored to the fireplace. The touch screen should automatically turn on and begin loading. If the touch screen doesn't turn on inspect and confirm wiring connections.



If after loading the touch screen displays the message "No data with the Fireplace" the DA and DB wires are not correctly matched end to end. Inspect wiring connections.



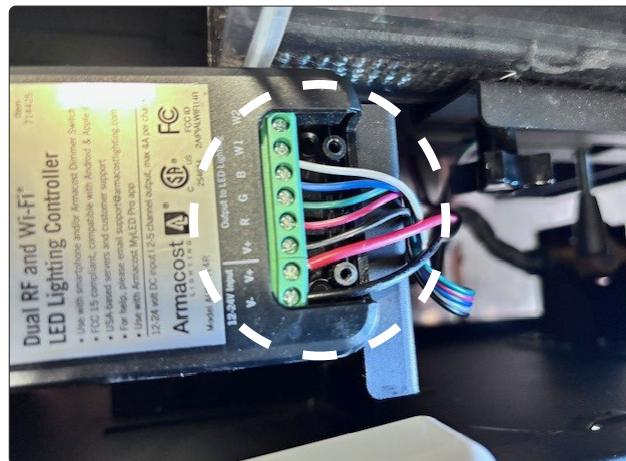
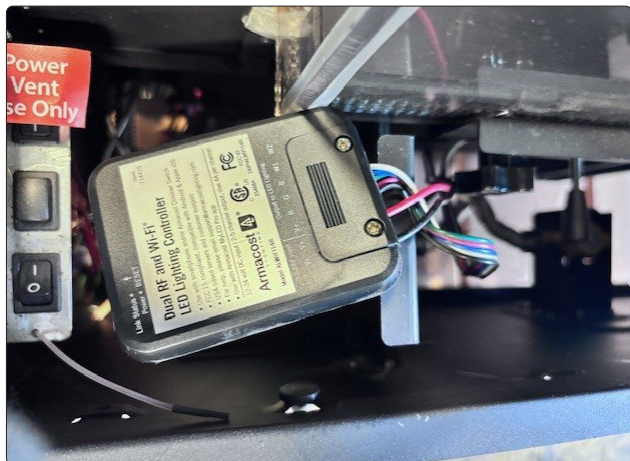
LED Controller Replacement

The touch screen is also capable of controlling the LED accent lighting for those fireplace models equipped. The Dongle Plus replaces the existing wifi only LED controller.

Note - LED controller found in the fireplace may also be WHITE in colour but removal and installation is the same.

Remove the existing LED controller from the right firebox leg. It is held in place with velcro.

Using the jeweler's Phillips screwdriver, remove the wiring cover plate.



Take note of the 2 wires (BLACK and RED) used for incoming voltage versus the remaining 5 wires used for the output to the LEDs and keep separate. Loosen the wiring screws and remove the LED controller from the fireplace.

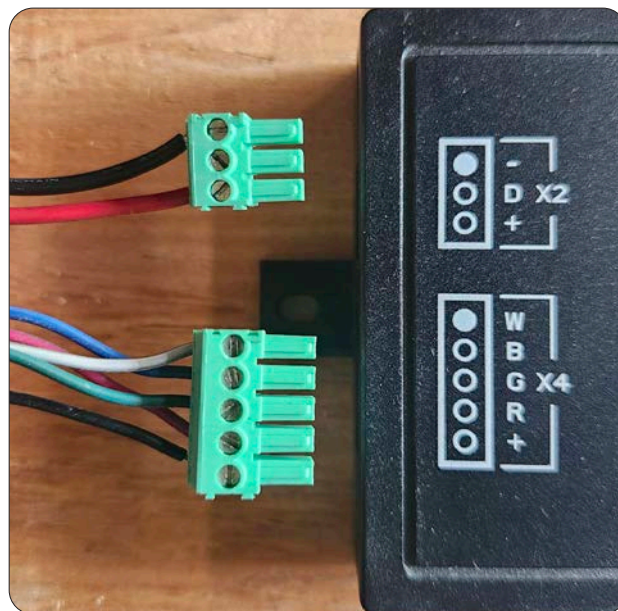
Remove the GREEN X2 terminal from the Dongle Plus and connect the BLACK and RED incoming voltage wires following the picture and printed schematic:

BLACK to -, RED to +

The middle position of the terminal is unused. Reconnect the X2 terminal to the Dongle Plus

Remove the GREEN X4 terminal from the Dongle Plus and connect the 5 LED output wires following the picture and printed schematic:

WHITE to W, BLUE to B, GREEN to G, RED to R, BLACK to +
Reconnect the X4 terminal to the Dongle Plus



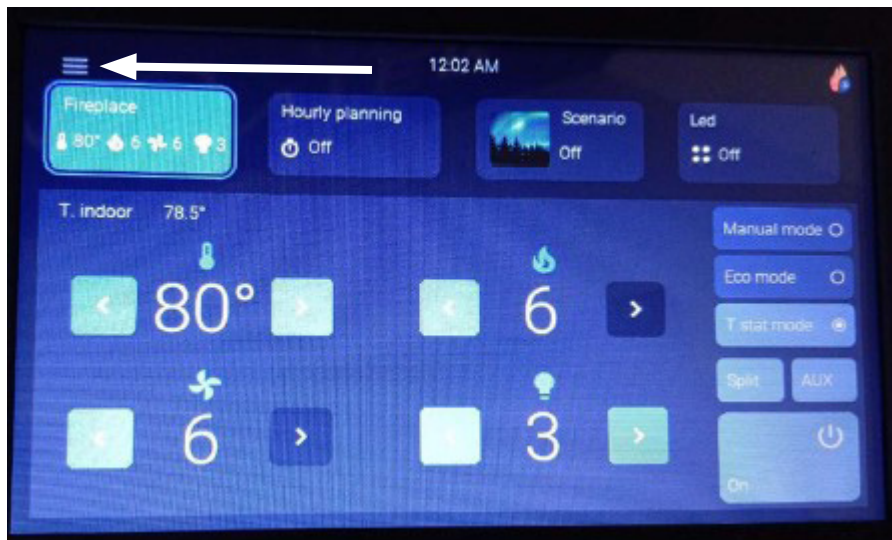
Replacement of the LED controller is now complete. Refer to the previous page for the remaining Dongle Plus installation steps and confirmation of touch screen operation.

First Time System Setup

At the very first startup you will need to setup the following:

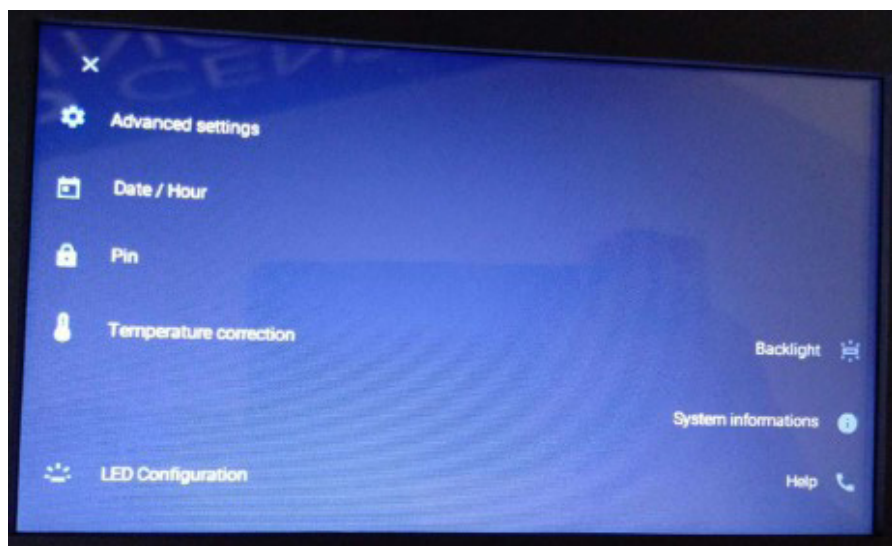
- System date and time
- Desired unit of temperature measurement
- LEDs (if equipped)
- Pilot Flame mode (CPI/IPI)
- Pin (if desired)

All of the above settings can be set through the Menu button in the top left corner of the Home Screen.



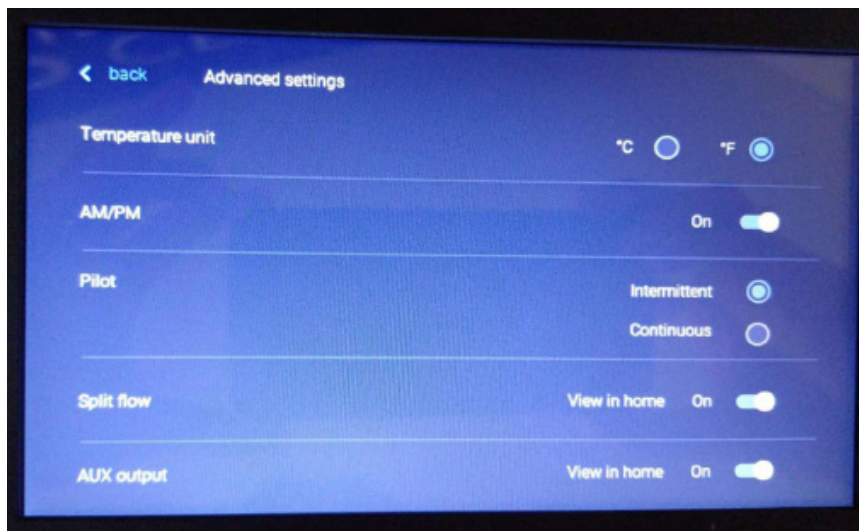
Main Settings Menu

- Advanced settings
 - Date / hour
 - Pin
- Temperature correction
 - LED configuration
 - Backlight
- System Information (software version)
 - Help



Advanced Settings Menu

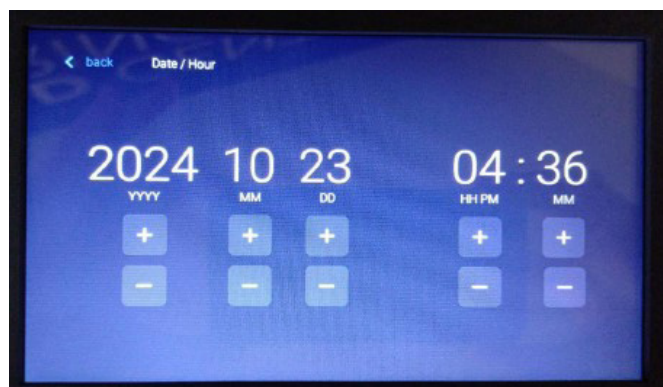
- Set desired unit of temperature measurement
 - Set time format AM/PM or 24hr
 - Set desired mode of pilot IPI or CPI
- Set the visibility of Split Flow button on home
 - For all Urbana models, set to Off*
- Set the visibility of the AUX button on home
 - For Urbana models with LEDs, set to ON*
 - For Urbana models without LEDs, set to OFF*



First Time System Setup

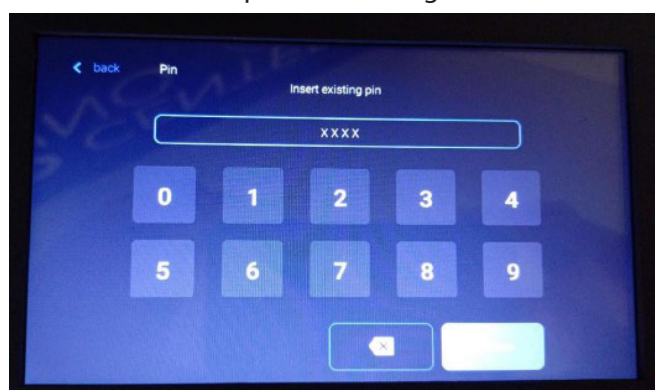
Date / Hour

Set the current day and time for the system



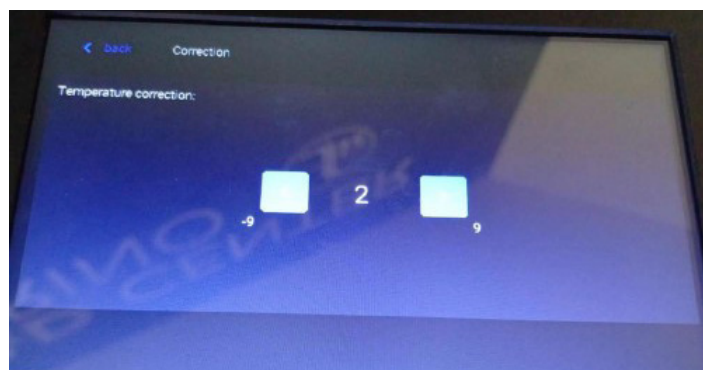
Pin (if desired)

Set a 4 digit password to lock the touch screen. If a pin has been made previously it will need to be entered first prior to creating a new one.



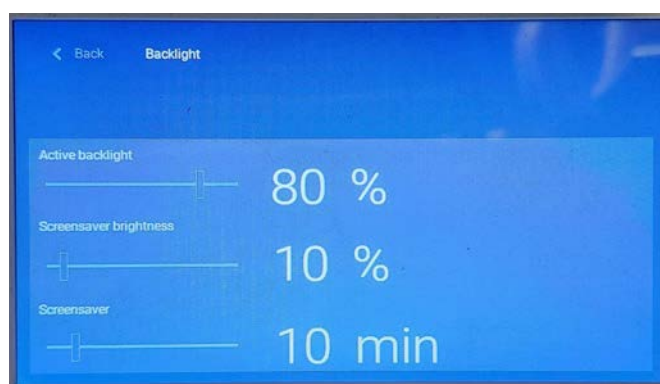
Temperature Correction

Adjust the displayed room temperature by a maximum of $\pm 9^{\circ}\text{F}$ ($\pm 5^{\circ}\text{C}$) to match the readings of another device in the same room i.e. wall mounted thermostat



Backlight

Set the brightness level of the touch screen when it is in use and when the screen saver is on. Set how long the touch screen remains idle before the screen saver comes on.



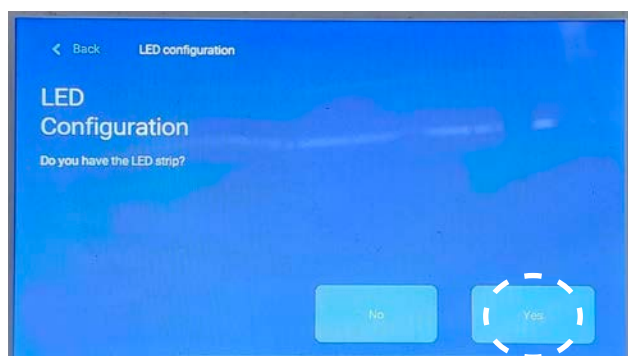
LED Configuration (if equipped)

If the fireplace is equipped with LEDs and its controller was replaced, as instructed in the previous section, the touch screen needs to be setup to use them. Select LED Configuration from the Main Settings Menu and follow the steps below.

NOTE - Prior to LED configuration confirm the fireplace's AUX mode, on the Home Screen, is turned ON.

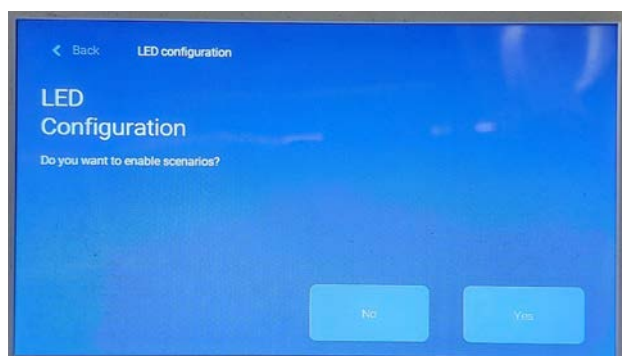
LED Configuration

Select Yes



LED Configuration - Enable Scenarios

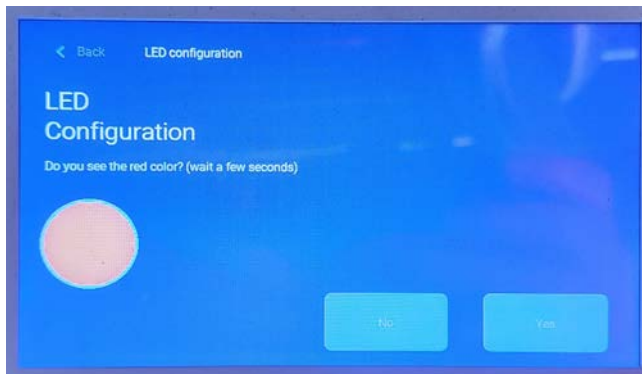
If optional preset LED modes are desired select Yes.
If optional preset modes are not desired select No.



LED Configuration (if equipped)

LED Configuration - Red

Only red LEDs should be illuminated, select YES



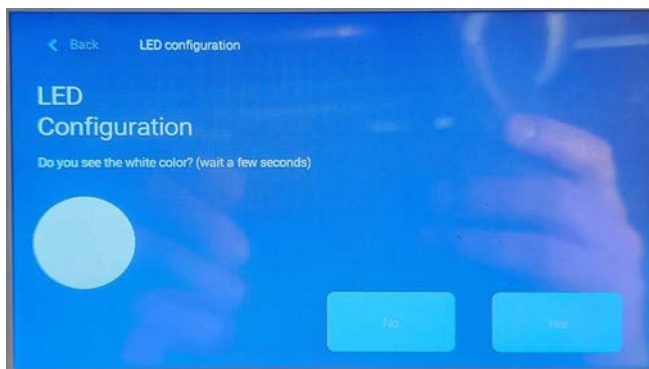
LED Configuration - Green

Only green LEDs should be illuminated, select YES



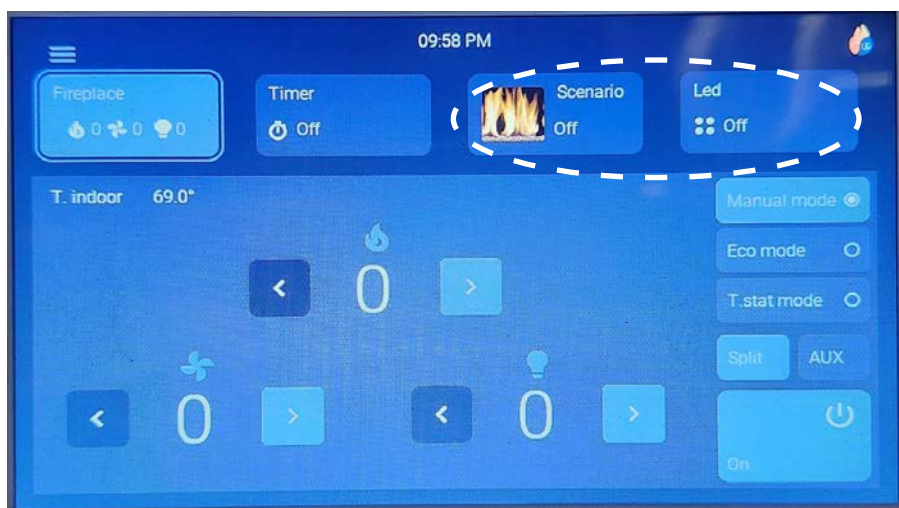
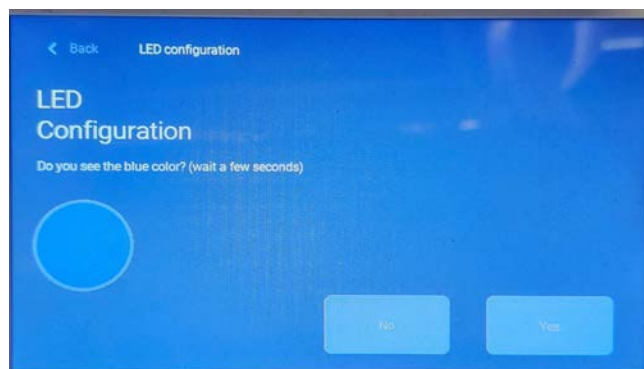
LED Configuration - White

Only white LEDs should be illuminated, select YES



LED Configuration - Blue

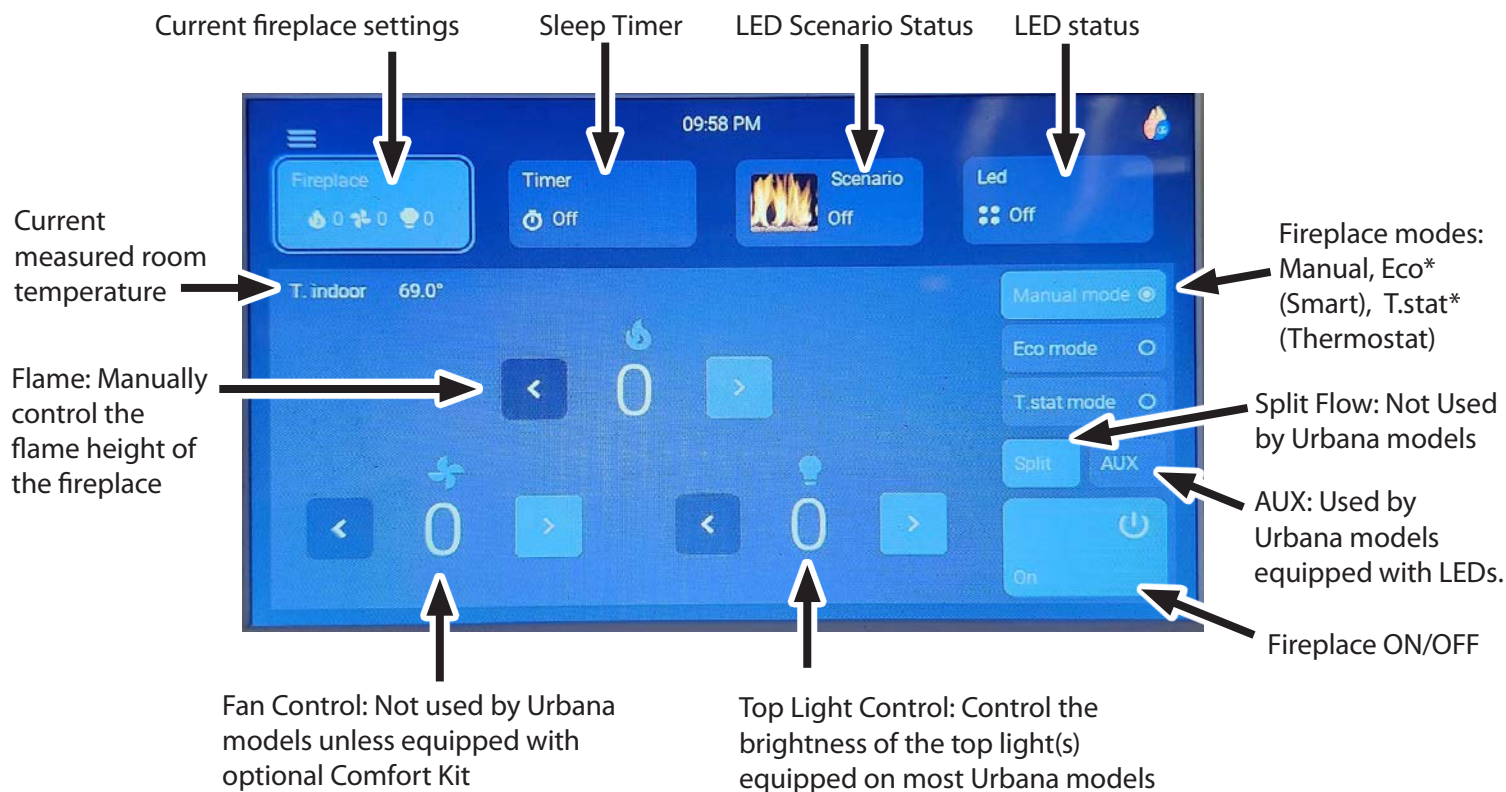
Only blue LEDs should be illuminated, select YES



LED configuration is now complete and will exit to the Home screen. The "Led" and "Scenario" (if desired) buttons will now be visible on the Home screen for full control of the LED system

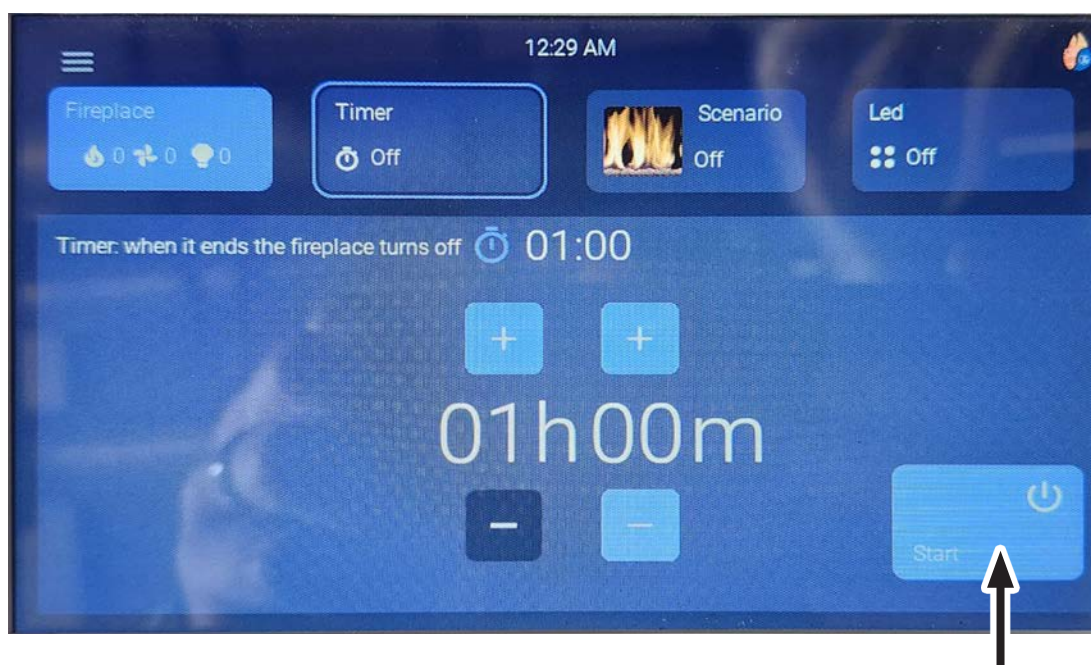
Operating Procedure

Home Screen: Operating the home screen is very similar to using the Proflame 2 remote control supplied with the fireplace.



***Note:** Decorative rated Urbana U37, U44, U55, U50T Ultra and U70T Ultra models are not permitted for use with Eco or T.stat modes.

Sleep Timer: Select the desired amount of time (hours & minutes) the fireplace will operate before turning off then select Start.

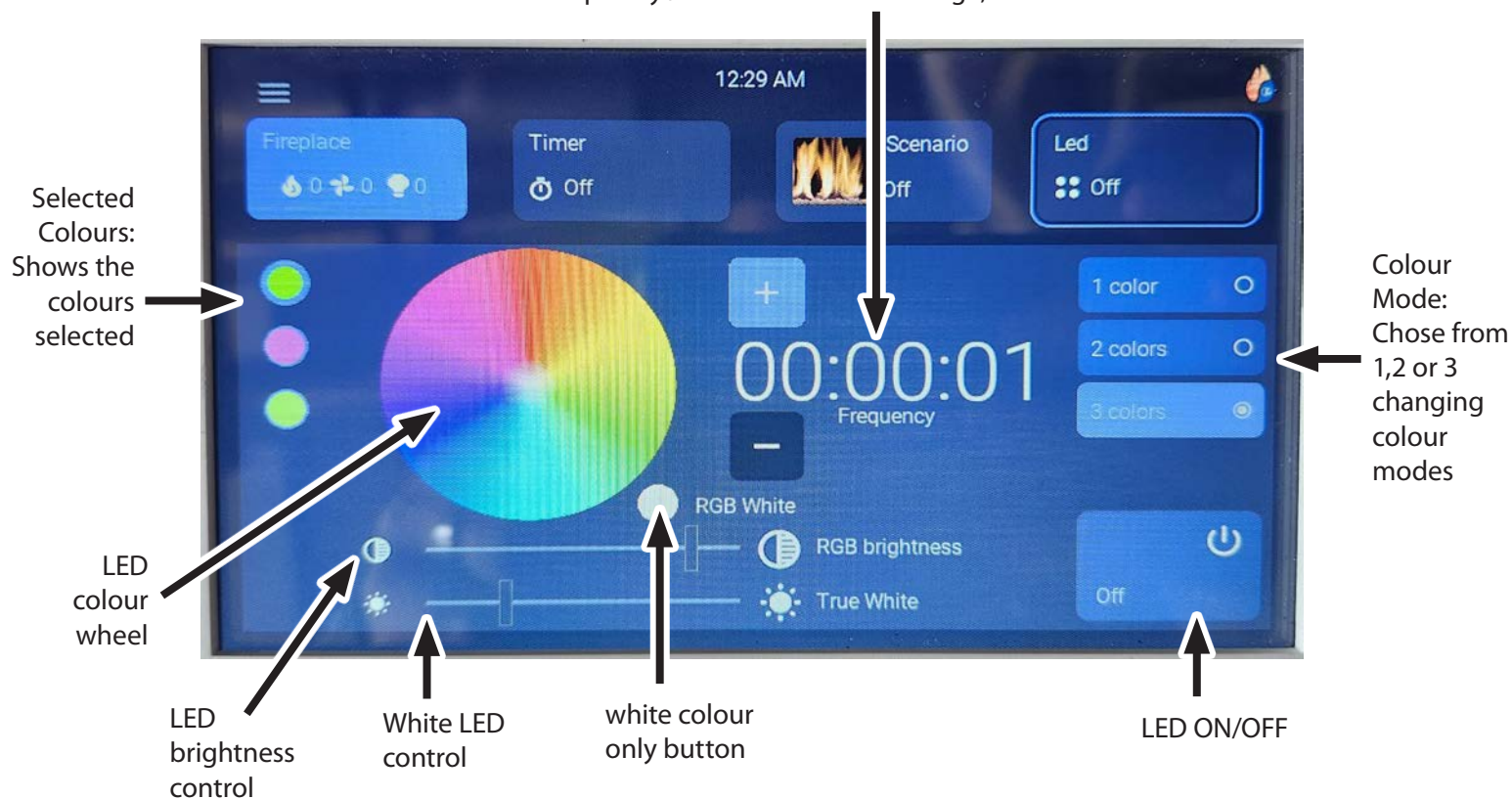


Operating Procedure

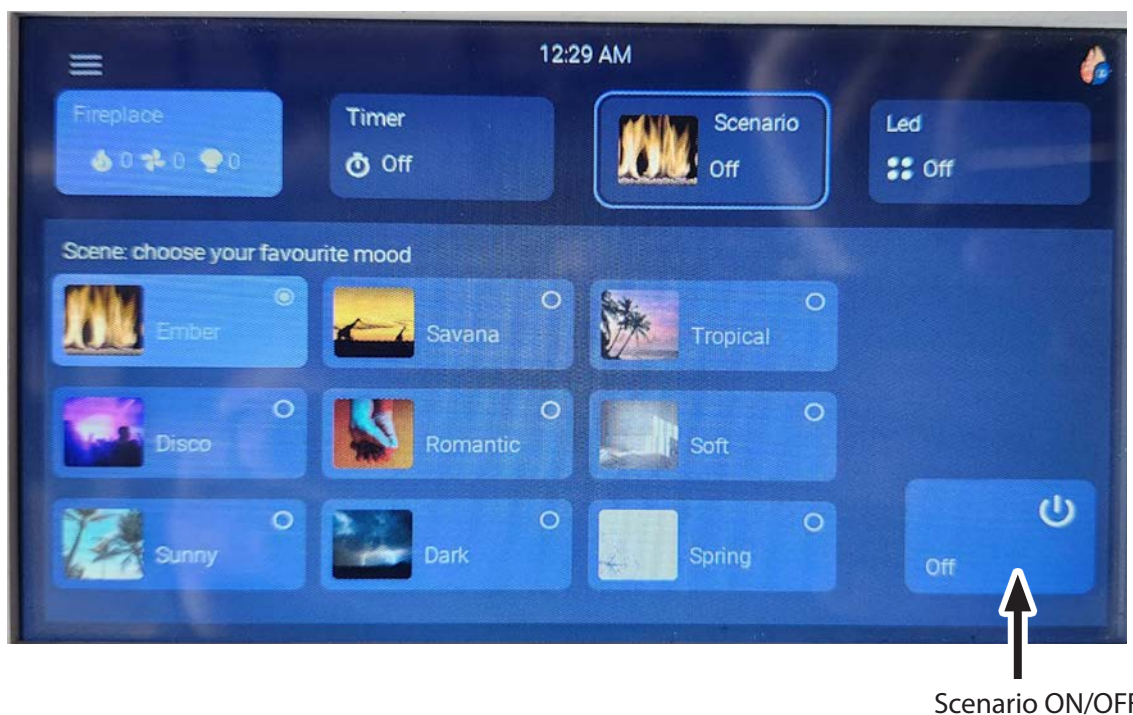
LED Control: Select the desired colour(s), brightness and mode of the LEDs.

NOTE - To use LED control the fireplace's AUX mode, on the Home Screen, must be turned ON.

Frequency / interval of colour change, if 2-3 colours selected



LED Scenarios: Select from preset dynamic LED modes that automatically change colour, pulse etc.



Operating Procedure

Remote in Use: This touch screen kit fully replaces the Proflame 2 remote supplied with the fireplace, making it no longer required and the batteries can be removed. If desired, the remote may also still be used in conjunction with the touch screen. Remote commands will override the touch screen and a remote icon will be displayed on the screen as shown below. The touch screen will not be usable again until the remote has been turned off. When the remote icon disappears from the touch screen it is usable again.



Screensaver: When the touch screen has been idle for the set amount of time (see Backlight setting in First Time System Setup section) it will switch to the screensaver. The screensaver displays the following items:

- Date & time
- Current room temperature
- Current fireplace settings

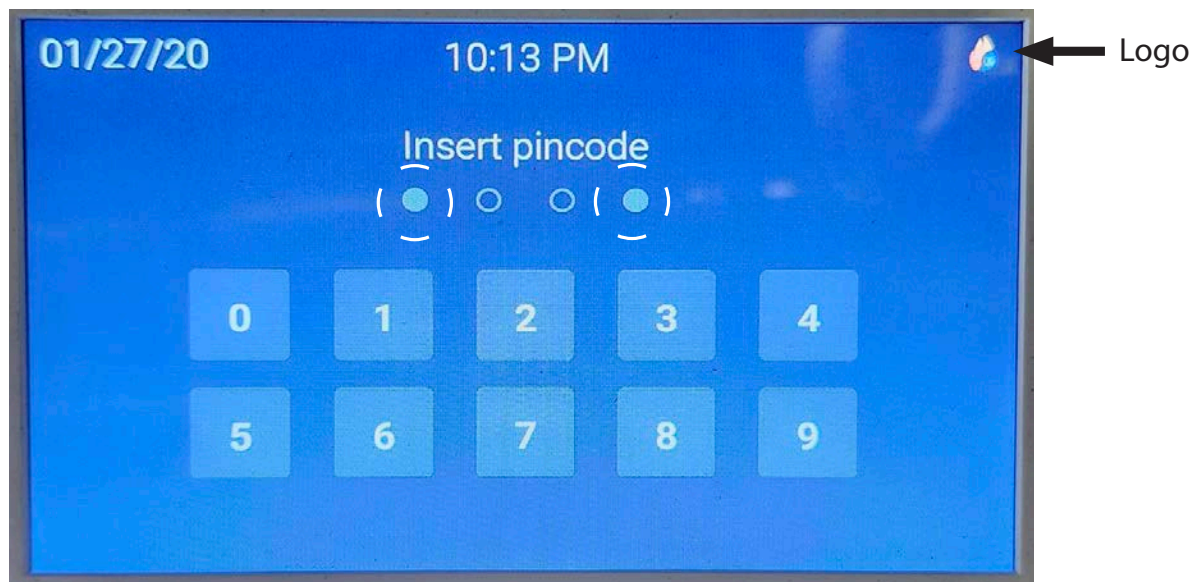


Operating Procedure

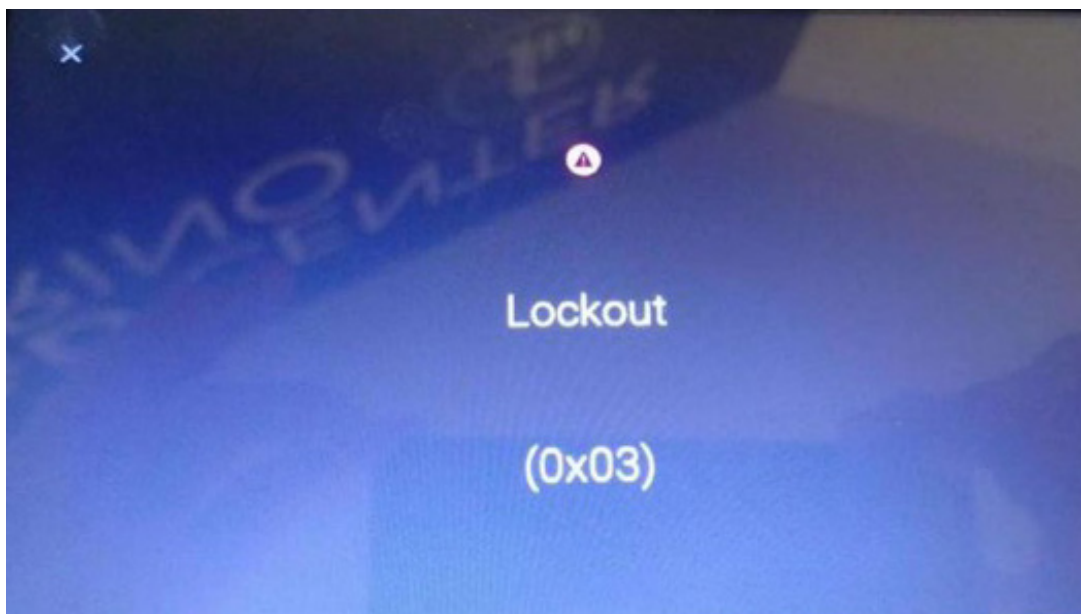
Screensaver Pin - If a pincode has been setup (see Pin setting in First Time System Setup) it will need to be entered to get past the screensaver.

NOTE - If the pincode has been lost/forgotten it can be factory reset from this screen.

- Press on the logo in the top right corner until the outside pin dots turn blue (see image below).
- Stop pressing on the logo and enter "0000" to unlock the touch screen.
- A new pin will need to be set (if desired) in the Main Settings Menu.



Lockout: If this error message is displayed the fireplace IFC is in a lockout state. Follow IFC lockout troubleshooting steps in the fireplace owner's manual.



Notes

Notes

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