



**SIGNATURE
COMMAND™ SYSTEM**

Fire At Your Fingertips!



Signature Command System Upgrades and Improvements

- 1 Addition of Wall Switch Capable Feature to all systems (as of Feb. 1st, 2010)
 - 2 Addition of the A/C Adapter on all Basic **SC** Systems (as of Feb 1st , 2010)
 - 3 Change Remote in all **TSC** units To The new Touch Screen Remote (Wideview Feb 1st and rear burner shut off units Feb 8th)
- Note:** all **TSC** rear burner shut off units will have **TSFRSC** remote and all other **TSC** units packed with a remote will have **TSFSC**
- 4 Command Center Wall Mount Extension Kit receives a wire connection coupling and comes loses for ease of installation (April 1st , 2010)

The two Signature command Systems

SC

A/C adapter w/ battery backup

TSC

A/C module w/battery back up &
with Full Function Touch Screen remote

Models with the Signature Command Systems and Control Type

| <u>SC Systems</u> | <u>TSC System w/o rear burner shut off</u> | <u>TSC System w/ rear burner shut off</u> |
|-------------------|--|---|
| CDV | WDV | KHLDV |
| BDV/DVB | WDVST | KHSTDV |
| HBDV/DVBH | VLIDV | VHLDV |
| BLDV/DVBL | | |
| MDV/DVM | | |
| DVML/MLDV | | |
| PF,ST,CR,CL - LDV | | |

SCS Remote Changes and Improvements

- 1 Addition of 3 Touch Screen Remotes TSMSC, TSTSC, TSFSC and discontinue RFSC and RTSC
- 2 Quicker and faster response time
- 3 Easier function of operation (Layout & Slide feature)
- 4 Memory sequence added to Flame height indicator
- 5 "Smart Mode" thermostat automatic function (Flame Height and Blower)

| | Signature Command Transmitters Matrix | | | |
|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|------------------------|
| | Transmitters for SCS Controls | | | |
| | Manual Hi/Low | | Thermostat Hi/Low | |
| Model | RMSC | TSMSC | TSTSC | TSFSC |
| Features | Manual with Flame Height Adjustment | Manual with Flame Height Adjustment | T-stat with Flame Height Adjustment | Full Function T-Stat |
| Style | Hand Held w/ buttons | Hand Held Touch Screen | Hand Held Touch Screen | Hand Held Touch Screen |
| Valve Compatibility | SCS | SCS | SCS | SCS |
| Radio Frequency Communication System | RF | RF | RF | RF |
| LCD Display with Backlighting | Yes | Yes | Yes | Yes |
| Slide Control | | Yes | Yes | Yes |
| Manual On/Off | Yes | Yes | Yes | Yes |
| Signal Indicator | Yes | Yes | Yes | Yes |
| Flame Height Indicator | Yes | Yes | Yes | Yes |
| Low Battery Indicator | Yes | Yes | Yes | Yes |
| Count Down Timer | 90 min | 6 hrs | 6 hrs | 6 hrs |
| Room Temperature Display | Yes | Yes | Yes | Yes |
| Temperature Setting | | | Yes | Yes |
| Thermostat On/Off | | | Yes | Yes |
| "Smart Mode" Thermostat | | | Yes | Yes |
| Blower Control | | | | 3 Speed |
| Lighting Control | | | | 3 Levels |
| Aux On/Off | | | | Yes |
| Adjustable Flame Height | 3 Levels | 3 Levels | 3 Levels | 3 Levels |
| Childproof Protection | Yes | Yes | Yes | Yes |
| Soft Touch | | Yes | Yes | Yes |
| Warranty | 5 Years | 5 Years | 5 Years | 5 Years |
| Operating Distance-30 Feet | Yes | Yes | Yes | Yes |
| Thermo Safety Shut Down (Transmitter) | Yes | Yes | Yes | Yes |
| Security Codes | 16 | 16 | 16 | 16 |
| Reset Button | Yes | | | |



RMSC



TSMSC



TSTSC



TSFSC

- **What is the Basic Signature Command**
 - Electronic ignition system with an optional cold climate pilot setting from the push of a button
 - A/C 6 volt powered with instantaneous battery back-up
 - If no A/C power is present it will run up to a season on 4 AA batteries
 - 3 step flame height control
 - Push button Command Center
 - Wall Switch and 15 feet of wire included
 - Self diagnostic indicator
 - Memory setting
 - On/off and thermostatic with “Smart Mode” remote controls available

- **What is Total Signature Command**
 - Electronic ignition system with an optional cold climate pilot setting from the push of a button
 - A/C Module with 3 A/C accessory ports and instantaneous battery back-up
 - Full function touch screen remote include
 - Remote “Smart Mode” setting lets the remote control the flame and fan for optimal performance.
 - Push button Command Center
 - 3 step flame height control
 - 3 speed fan control with adjustable delay timer
 - 3 step intensity light control
 - 120 volt on/off auxiliary port for additional appliance control
 - Self diagnostic indicator

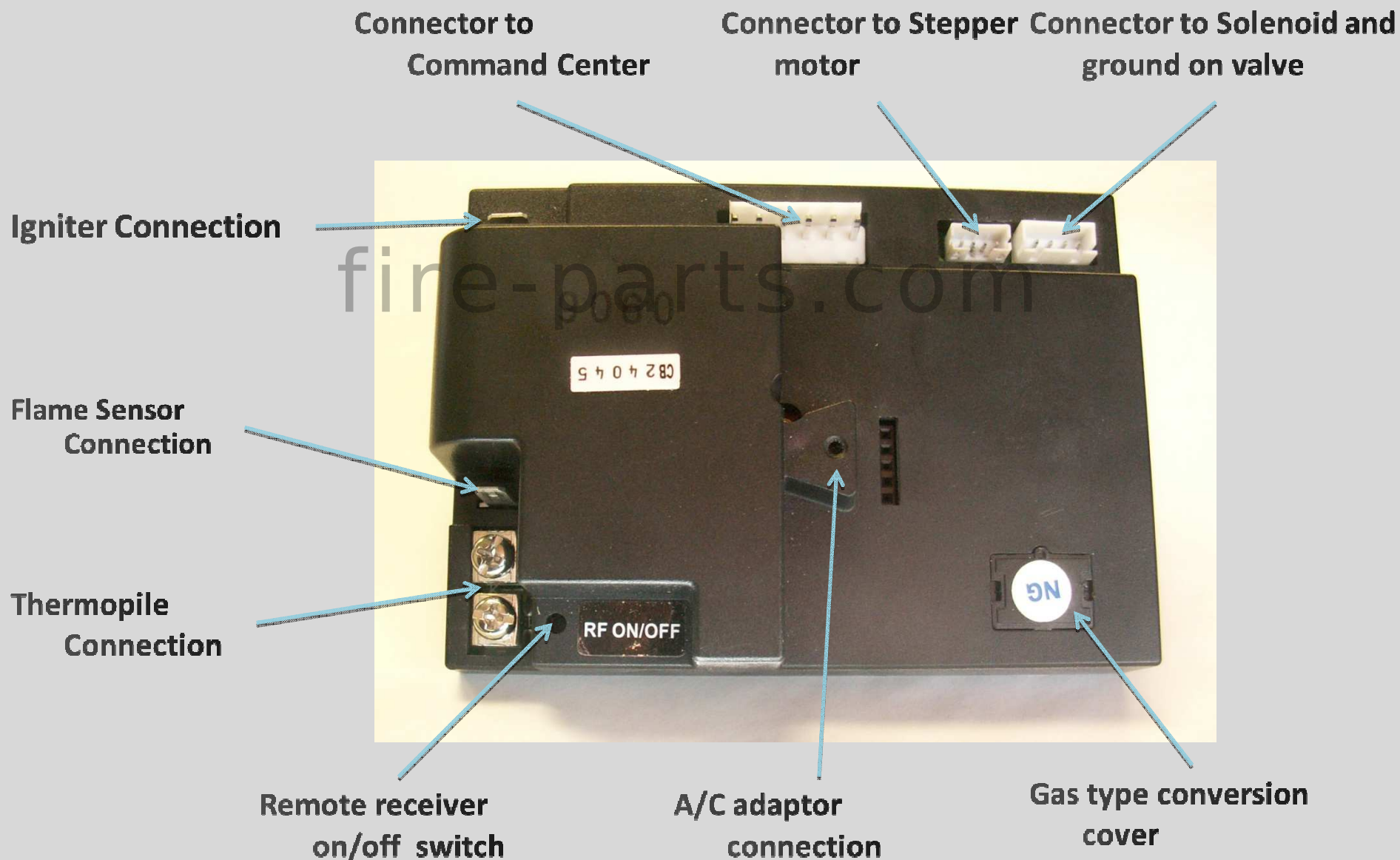


SIGNATURE
COMMAND™ SYSTEM

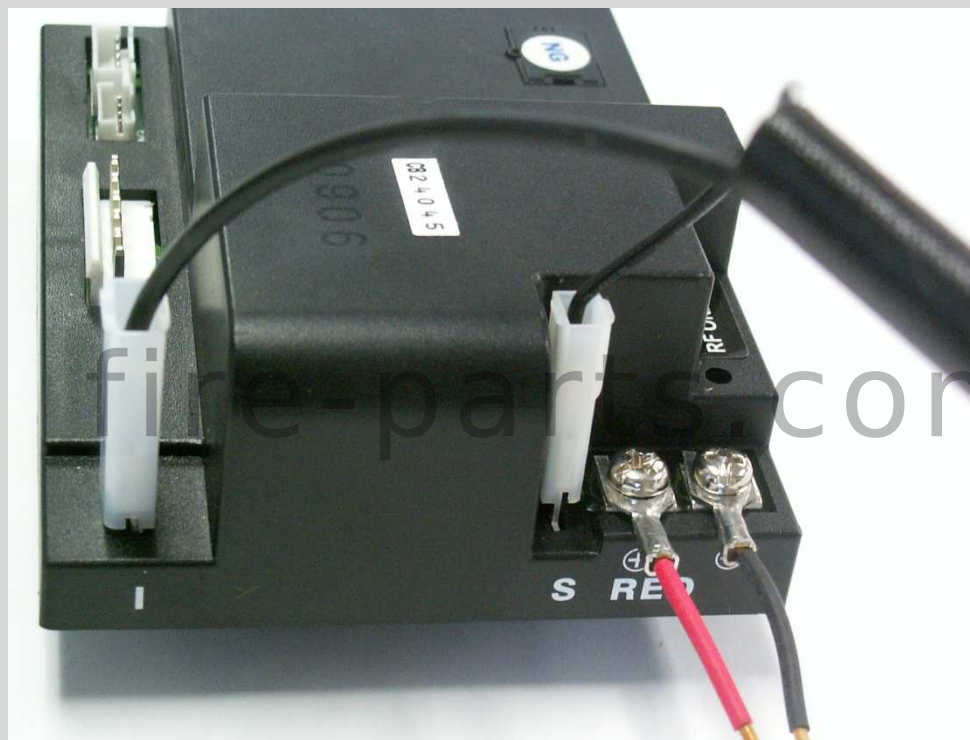
Fire At Your Fingertips!

Signature Command Components

Control Board



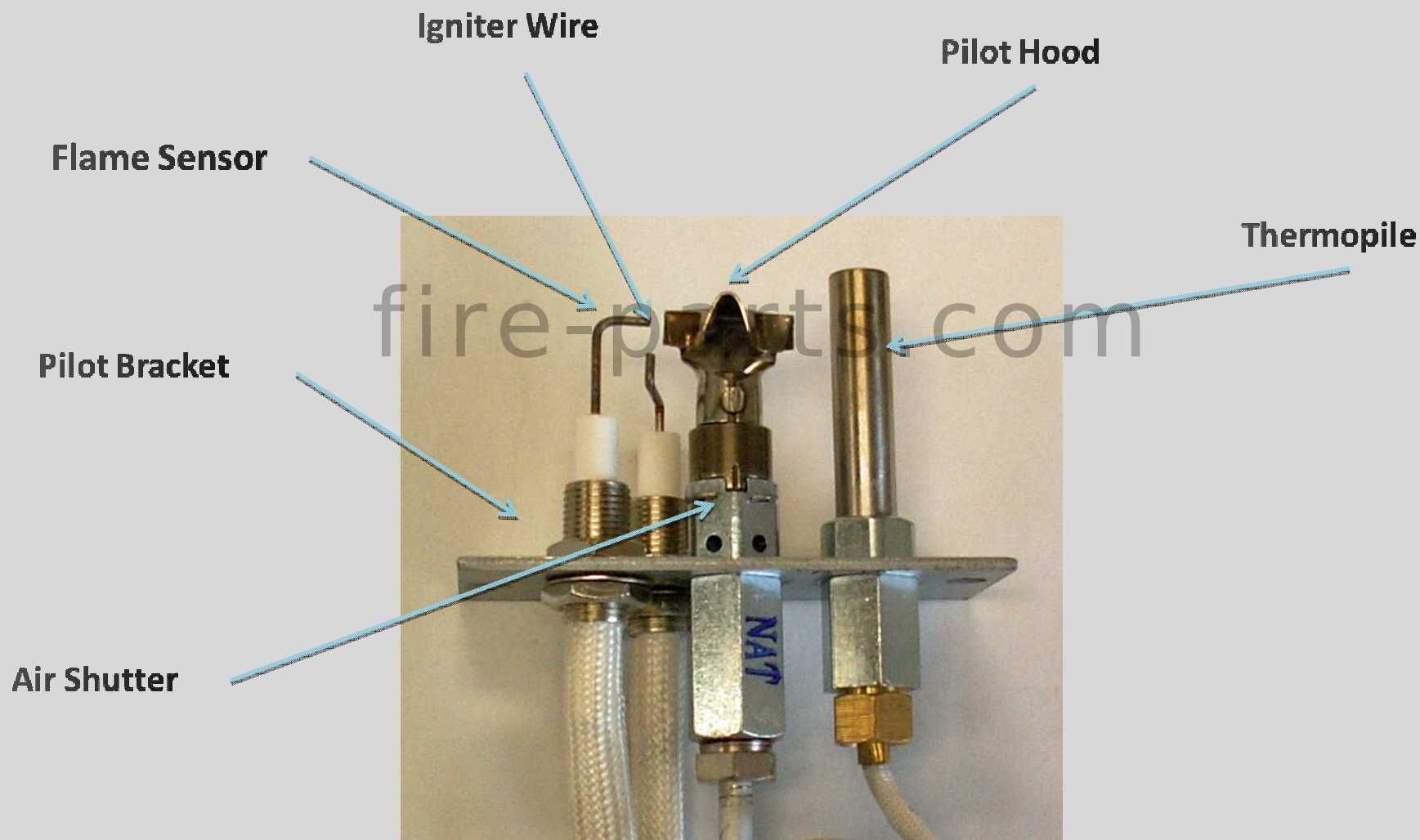
Control Board



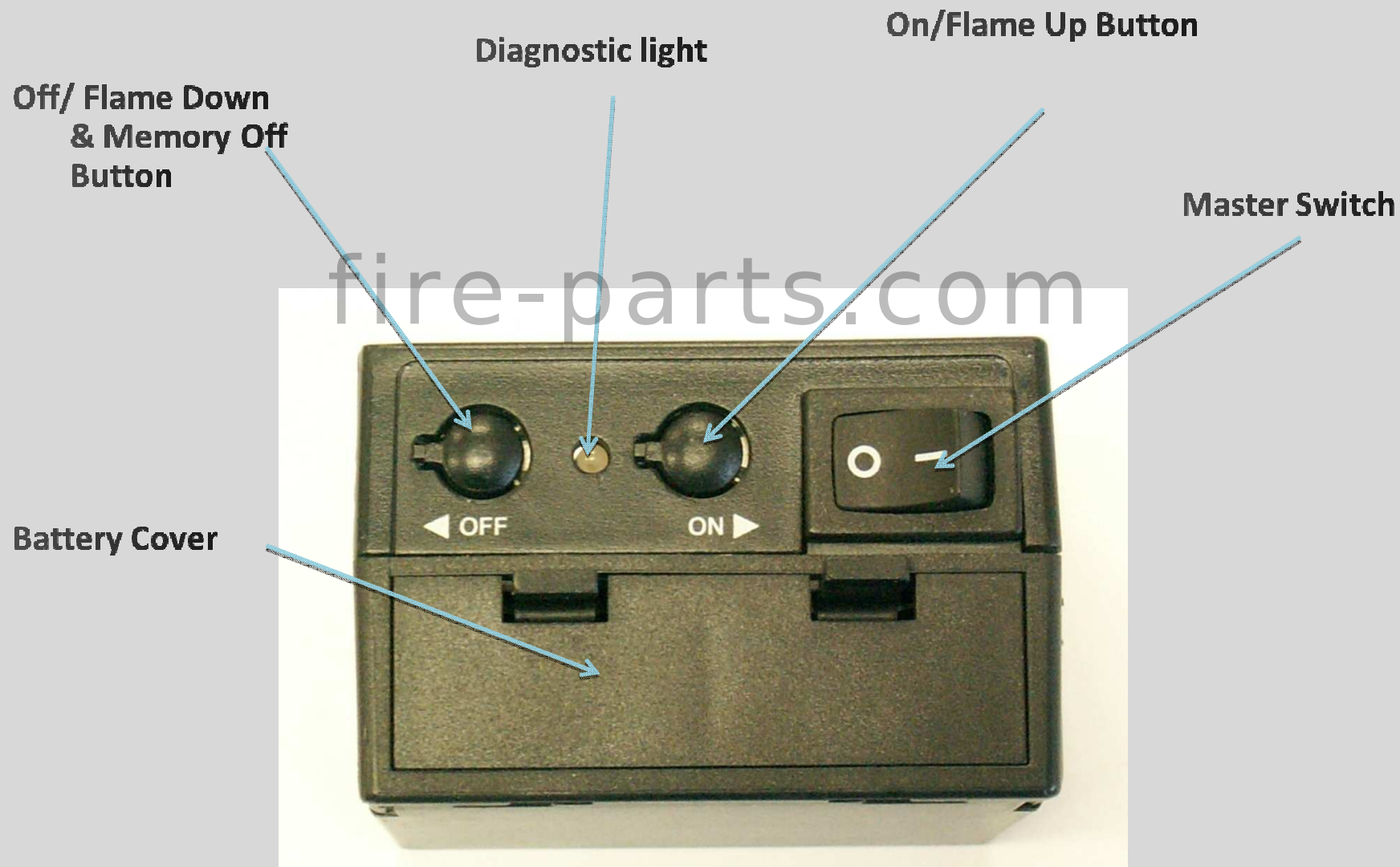
The Igniter and Sensor terminals are different sizes and labeled with an “I” and an “S”

The Thermopile connection is polarized and important to have the Red wire lead connected to the positive terminal.

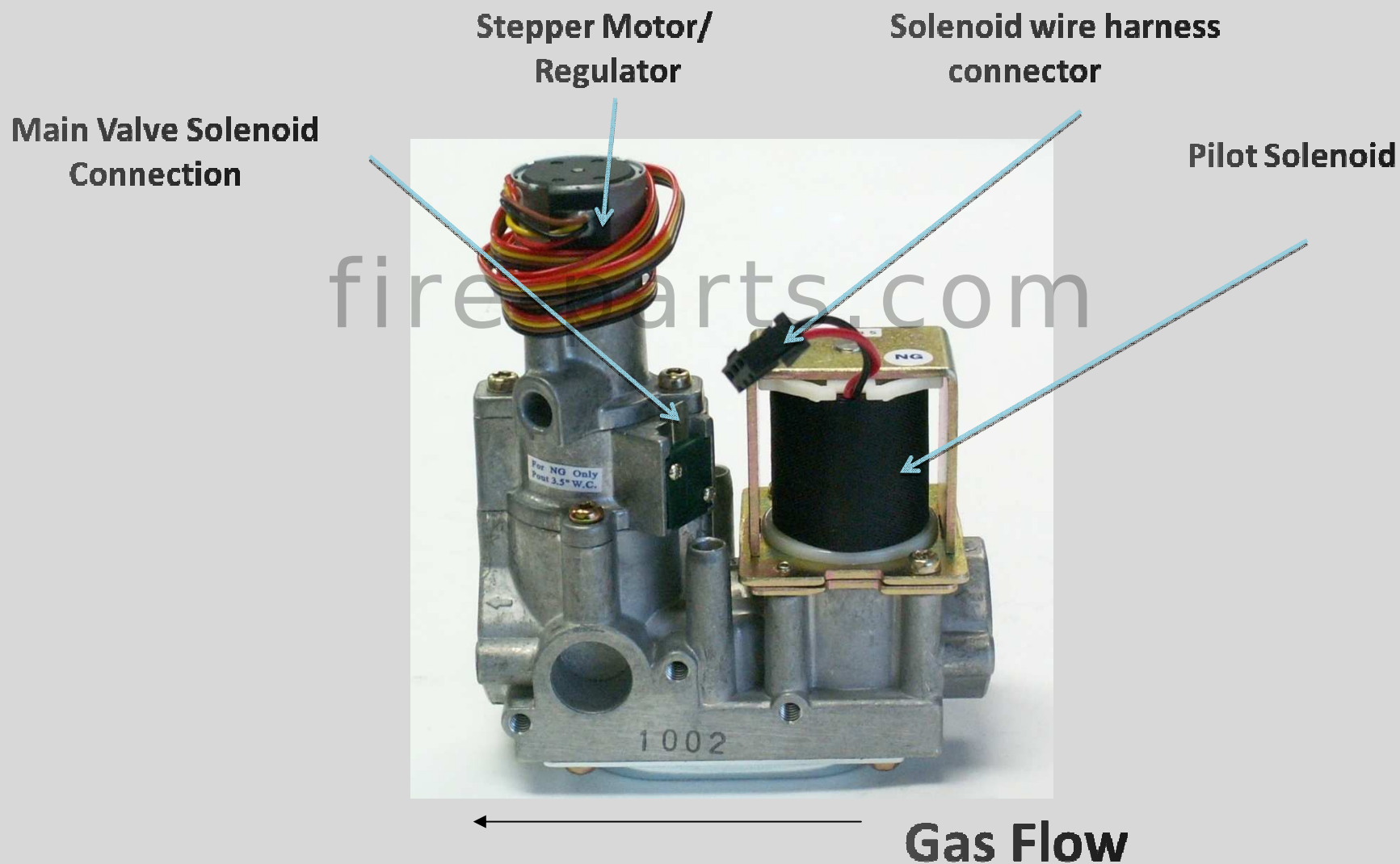
Pilot Assembly



Command Center



Control Valve



Control Valve



Inlet Pressure Port



**Outlet Pressure
Port**

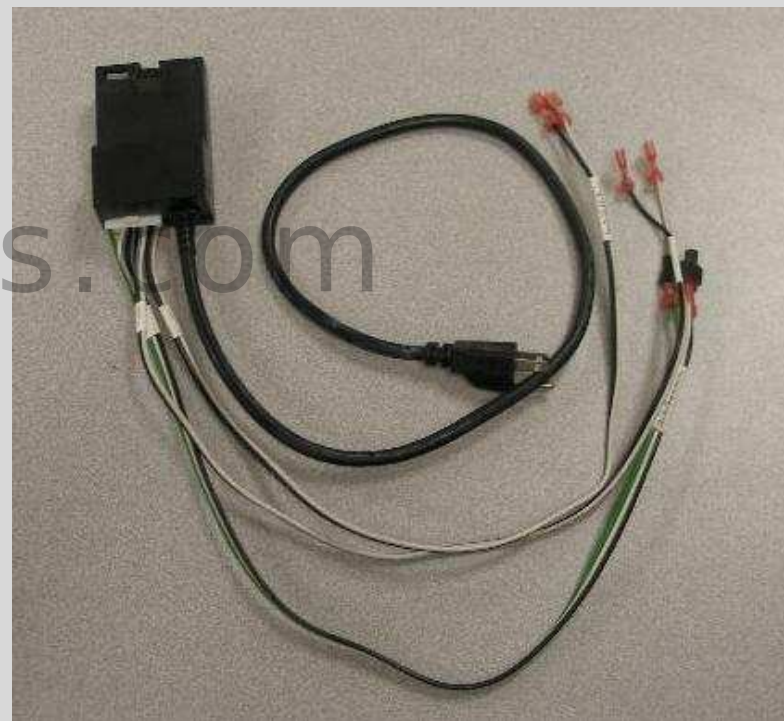
**Pilot Adjustment
Screw**

**Pilot tube
connection**

AC Adapters

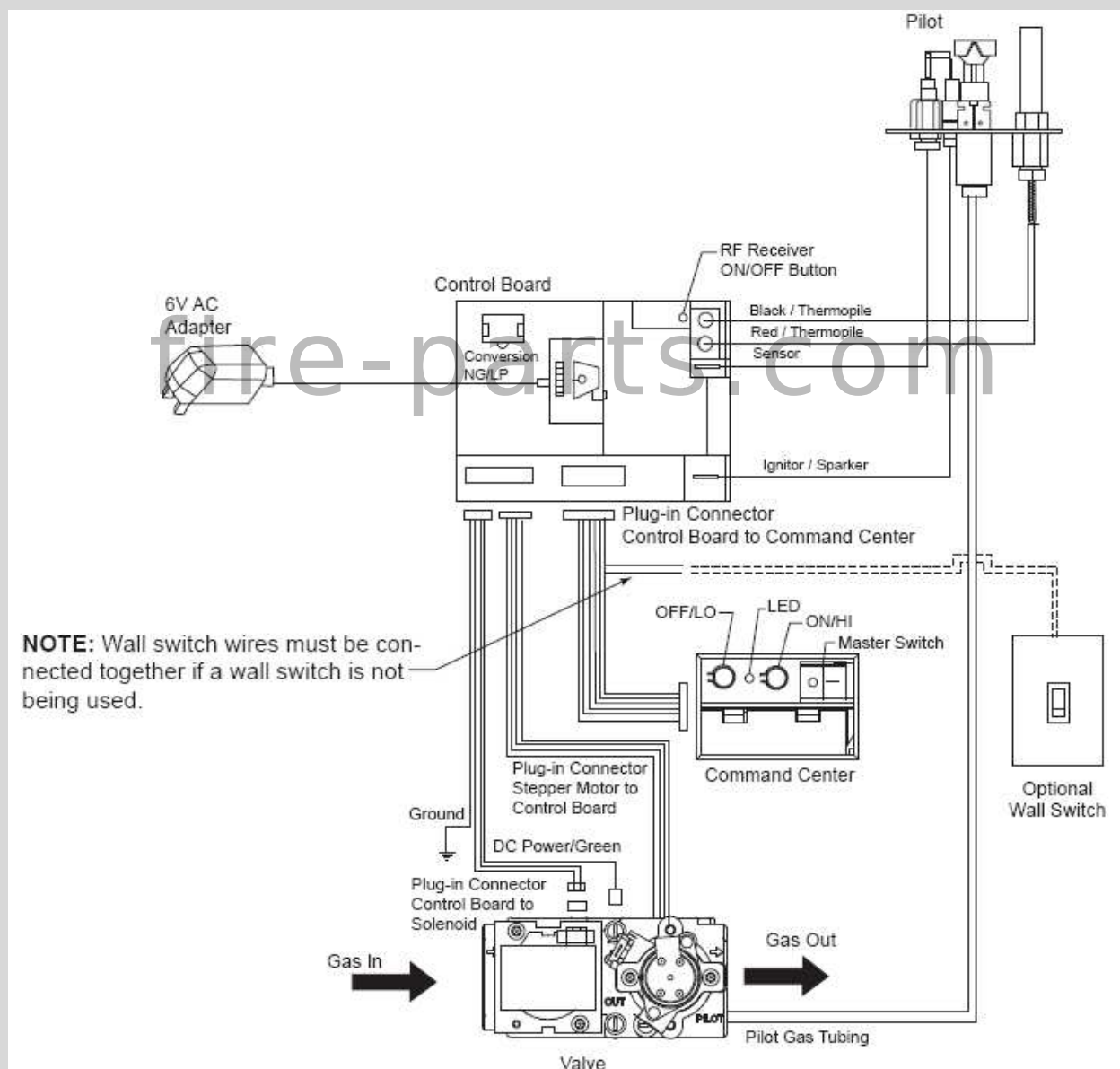


Standard 6V AC Adapter

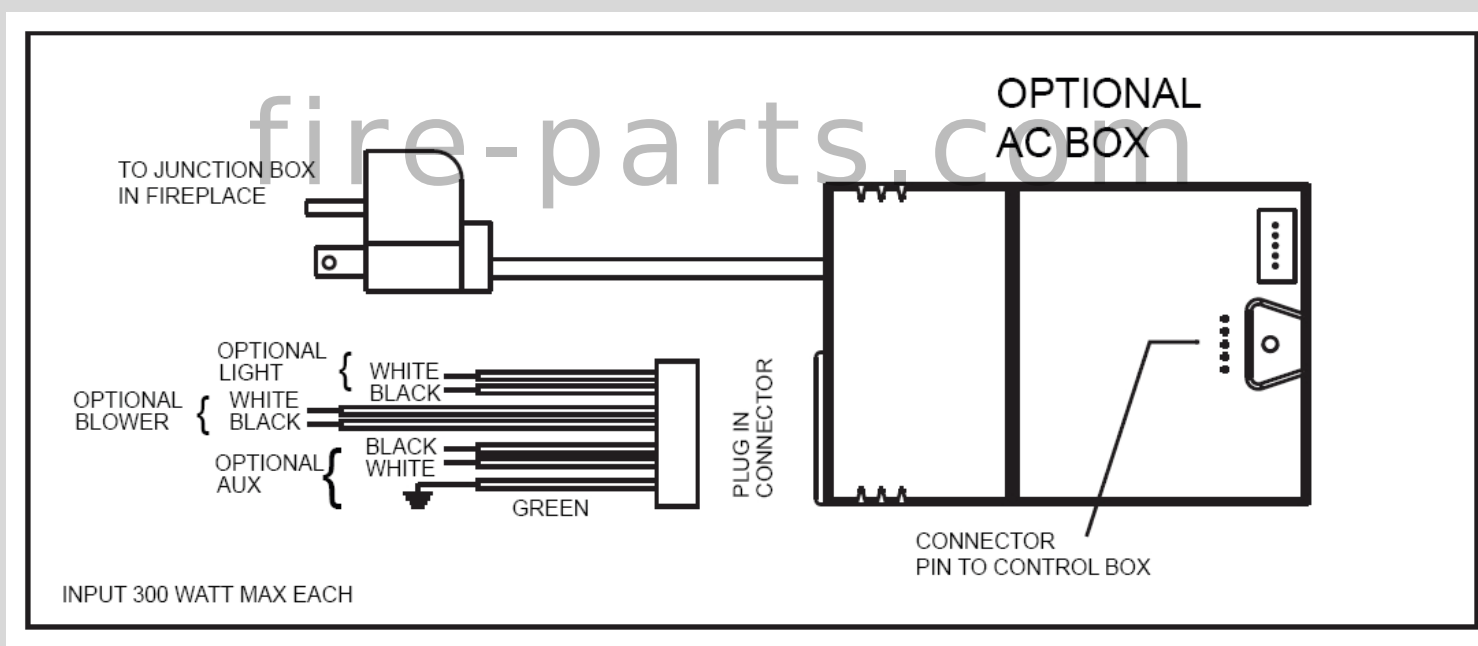


SCSACM Accessory Module
Standard with Total Signature
Command

Wiring Diagram Signature Command



Wiring Diagram A/C Module

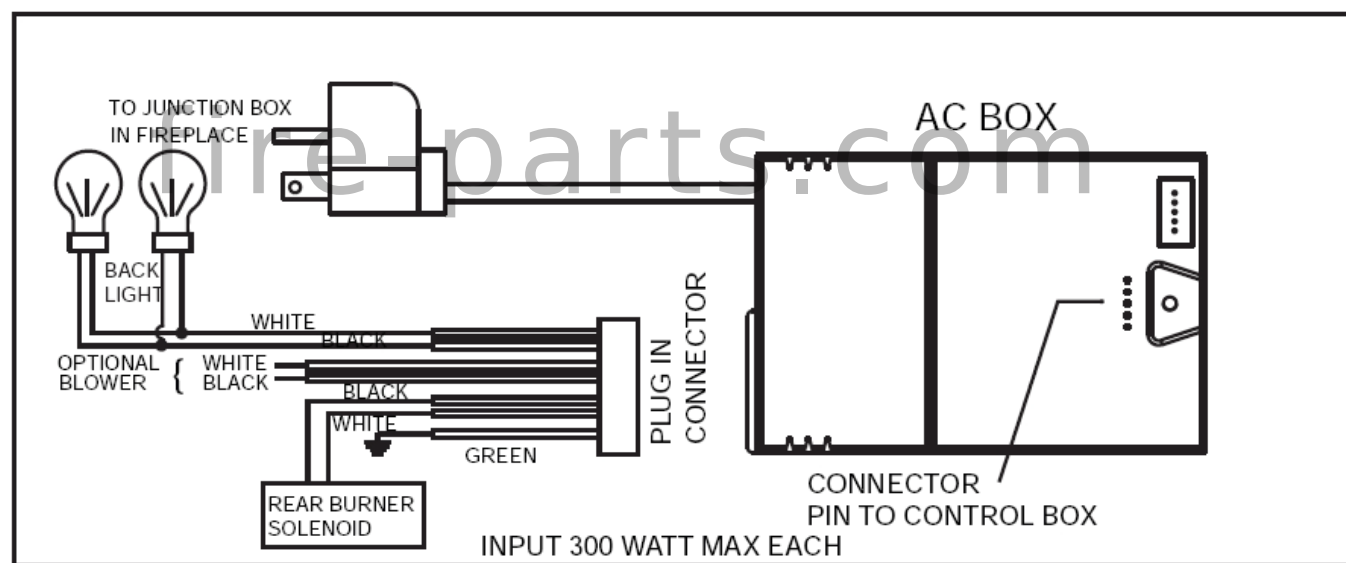




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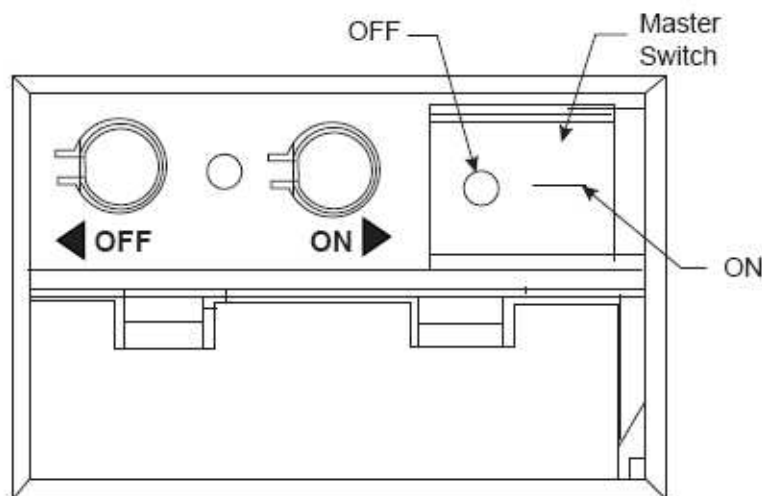
Wiring Diagram A/C Module for KHLDV/VHLDV



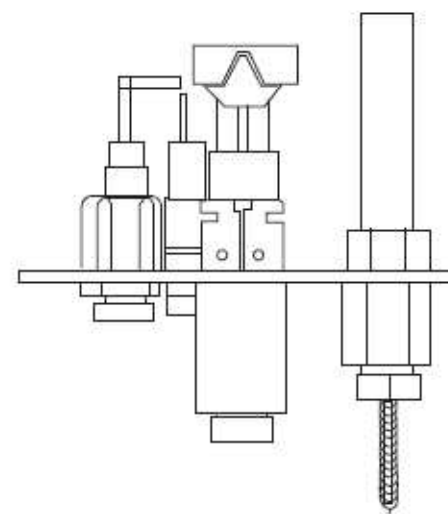


OPERATING INSTRUCTIONS

1. **STOP!** Read the safety information above.
2. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
3. With five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information on page 38. If you do not smell gas, go to next step.
4. Press the master switch to the "ON" (-) position. Within eight (8) seconds it will beep once. This indicates the system is ready.
5. Press "ON " button. Sparker will spark and pilot flame will light.
6. Once pilot flame is established, the main burner flame will light automatically.
7. If the pilot will not stay lit after several tries, turn the master switch to "OFF" and call your service technician or gas supplier.



Command Center



FEATURES

Command Center

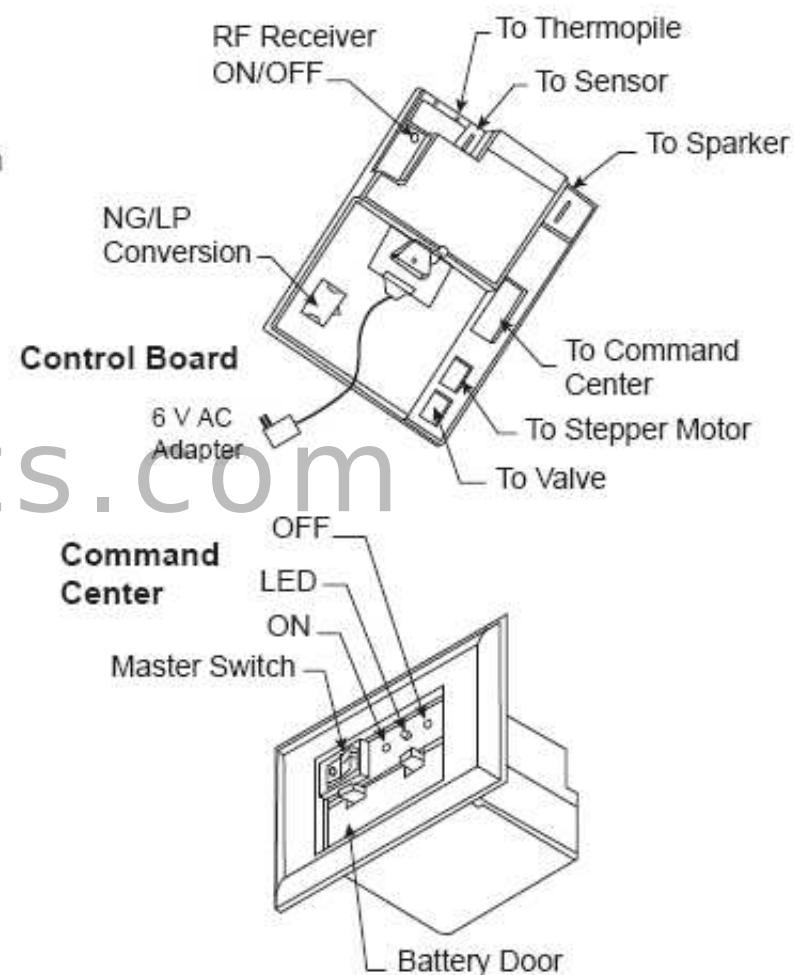
- Easy Access Function Operation and System Configuration
- Operation Confirmation/Fault Diagnostic Indications (LED/Buzzer)
- ON/OFF/HI/Med/Low Operation
- Optional Wall Mounting

Control Board

- Electronic Ignition
- Pilot Lockout safety feature
- Electric Power Regeneration from Thermopile to save battery
- 6-hour Automatic Shut Down Option
- Convenient NG/LP Gas Type Conversion
- Standing Pilot/Intermittent pilot Conversion
- Previous settings Restoration Ability (Memory Off)
- Uninterrupted Operation During Power Outage (Automatic Battery Backup)
- ON/OFF RF Remote Receiver
- Optional Transmitter Learn Capability

AC Module Board (Optional, requires TSFSC Remote)

- Easy Snap-on Design
- Embedded Compact 120 VAC Adapter with Auto Battery Back up Feature
- Remote Controlled 3-step Blower, Lighting, and On/Off Auxiliary AC Outputs



**Figure 52 -
Signature Command System Components**

SYSTEM CONFIGURATION/SETUP

All System configuration/setup is done on the Command Center.

NOTE: When using On/Off wall switch, the switch must be in the ON position to perform all configuration set ups at the command center.

Intermittent/Standing Pilot Setup (Default intermittent)

1. Holding the ON button on the Command Center while turning on the master switch will toggle between standing pilot and intermittent pilot.
2. After the above operation, one beep (for standing pilot) or two beeps (for intermittent pilot) will be given as confirmation.

Six-hour Safety Shutdown Option (Default ON)

1. The system comes preset from the factory with a six (6) hour shutdown from its last command of operation. This is done to prevent the fireplace from continuing to operate if unattended. You may disable this feature if you wish.

NOTE: By disabling this feature, your fireplace may continue to operate unattended.

2. When the master switch is in the ON position ("—"), pressing the ON button and the OFF button on the Command Center simultaneously will toggle between enabling and disabling the six-hour shutdown option.
3. After the above operation, one beep (for enabling the six-hour shutdown option) or two beeps (for disabling the six-hour shutdown option) will be given as confirmation.

Remote Transmitter Learn Function (Default OFF)

1. The RF receiver button located on the Control Board must be in the on position before the learn function can begin. Use paper clip to depress button. One beep for RF receiver ON or two beeps for RF receiver OFF will be given as confirmation. Refer to Figure 57 for location.
2. After the RF receiver is on, holding the OFF button on the Command Center while turning on the master switch will activate the learn function for the transmitter.
3. After the above operation, two beeps will be given and the green LED on the Command Center will flash for 10 seconds.
4. During the 10 seconds, press the OFF button on a transmitter to learn. Another two beeps will be given to confirm a successful learning. Refer to transmitter instructions for remote operations.

Shutting Off the Standing Pilot (Temporary Shut Off)

To shut off the standing pilot for service or summer shut down, press and hold the ON button on the Command Center for 3 seconds when the master switch is in the ON position ("-") and the main burner is off.

Note: Pilot will resume the next time system is turned on.

BATTERY INSTALLATION

The Command Center uses four (4) "AA" batteries as back up for power outages. The system can operate for approximately six (6) months on battery power.

To Install Batteries (not included):

1. Press down the battery door tabs and pull out to remove battery door.
2. Install the batteries as indicated on Command Center.
3. Close battery door by snapping in place.
4. When the four (4) batteries are installed the system will operate without power.
5. The batteries should be replaced when the LED indicates low battery or at least once a year.

Key Combinations for System Settings

NOTE: When On/Off wall switch is used, it must be in the On position to perform all system setups.

| Function | Operation | Default Setting |
|-----------------------------------|---|--------------------|
| Intermittent/Standing Pilot Setup | Hold the ON ▲ button while turning on the master switch (Beep once for standing pilot, twice for intermittent pilot) | Intermittent Pilot |
| Standing Pilot Temp. Shutoff | Hold the ON ▲ button 3 seconds (when the master switch on the main burner is off) | |
| RF Remote Receiver On/Off | Push the RF receiver On/Off button on the control board Beep once for ON and beep twice for OFF | RF OFF |
| Learn Remote Transmitter | Hold the OFF ▼ button while turning on the master switch (Beep twice then press any handheld remote button) | |
| 6-hour safety shutdown setup | Press the ON ▲ button and OFF ▼ button simultaneously (Beep once for ON, twice for OFF) | ON |

FUNCTIONS/OPERATION

Turning on the fireplace

1. Turn on the master switch and wait for a beep.
2. Press the ON button on the Command Center or turn on wall switch. Pilot will light and burner will come on High setting or last memory setting (See Turning Off Fireplace below). For memory feature.

Pilot Safety Lockout Function

1. If the pilot doesn't light after sparking for 30 seconds, pilot trial lockout happens. The LED on the Command Center flashes Green once every 2 seconds, until reset.
2. If the pilot flame is lost during normal operation, the system will try three (3) times to relight after three (3) failures, flame loss lockout happens. The LED on the Command Center flashes Red-Green once every 2 seconds, until reset.
3. Turning the master switch on the Command Center to the off position, then ON again will reset the system.

Flame Height Control

1. Press the ON button (on the Command Center) once to turn on the main burner with maximum flame height.
2. Press the OFF button to decrease flame height. The first two presses will decrease the flame height to medium and low.
3. The third press on OFF will turn off the main burner. In standing pilot configuration, the pilot will stay; in intermittent pilot configuration, the pilot will be shut off.

Turning the Fireplace Off

There are three ways to turn the fireplace off.

1. Flip the master switch to the off ("O") position. (This will turn the entire system OFF.)
2. Press the OFF button to Medium, Low, then Off.
3. Hold the OFF button anytime for three seconds or by turning off the wall switch. These two commands of OFF are (Memory Off) the system will remember all last settings before turning off. The next time the fireplace is turned on, all settings will resume. To reset, change to the desired settings and shut off by using the Memory Off commands and the system will be reset to those new settings.

Command Center Operations:

The following functions are available on the Command Center.

| Function | Operation |
|-------------------|--|
| Power Up | Flip the master switch to the ON ("I") position to power up the system |
| Fireplace ON | Press the ON ▲ button on the Command Center or turn on wall switch to turn the fireplace on |
| Fireplace OFF | Flip the master switch to the OFF ("O") position OR press the OFF ▼ button 3 times OR for Memory Off, hold the OFF ▼ button 3 seconds, or turn off wall switch |
| Flame Height Up | Press the ON ▲ button once to turn on the fireplace with maximum flame height |
| Flame Height Down | Press the OFF ▼ button to lower the flame height to Medium and Low |

Self Diagnostics Chart:

The Command Center has a self-diagnostic LED enabling you to troubleshoot problems and potentially avoid a service call. Please refer to the charts below for indicator reference.

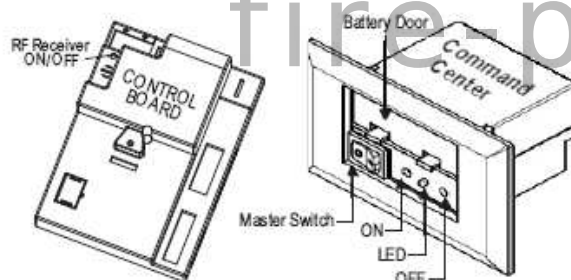
| Fault | LED Indication |
|--|--|
| Conversion Cover Missing | One RED (1 time) |
| Spark Fail | Two RED (1 time) |
| No Sensor Signal | Three RED (1 time) |
| Pilot Lockout - trial | One GREEN, every 2 sec. (until manual reset) |
| Pilot Lockout - flame loss | One RED-GREEN, every 2 sec. (until manual reset) |
| Low Battery | One RED, every 10s (continuously) |
| No or Low Thermopile Power | Two RED, every 10s (continuously) |
| Learning | GREEN Flashes, every 1 sec. (for 10 sec.) |
| AC Power On | GREEN solid |
| Pressure Switch Failure Power Vent Only | One RED every 2 sec. (until manual reset) |

Quick Use Guide



SIGNATURE COMMAND™ SYSTEM

Command Center Operations and Indications



System Set Up Chart

The following system setup options can be made on the Command Center.
Note: When using ON/OFF wall switch, the switch must be in the **ON** position to perform all configuration setup operations at the command center.

| FUNCTION | OPERATION | DEFAULT SETTING |
|------------------------------------|--|--------------------|
| Intermittent/ Standing Pilot Setup | Hold the ON ▲ button while turning on the master switch (Beep once for standing pilot, twice for intermittent pilot) | Intermittent pilot |
| Standing Pilot Temporary Shutoff | Hold the ON ▲ button for 3 seconds, (when the master switch is on and the main burner is off) | |
| RF Remote Receiver On/Off | Push the RF Receiver On/Off button on the Control Board (Beep once for ON, twice for OFF) (Use paper clip) | RF OFF |
| Learn Remote Transmitter | Hold the OFF ▼ button while turning on the master switch (Beep twice then press any handheld remote button) | |
| 6-hour safety shutdown setup | Hold the ON ▲ button and the OFF ▼ button simultaneously. (Beep once for ON, twice for OFF) | ON |

Command Center Operations

The following functions are available on the Command Center.

| FUNCTION | OPERATION |
|-------------------|---|
| Power Up | Flip the master switch to ON ("I") position to power up the system. |
| Fireplace ON | Press the ON ▲ button on the Command Center or turn on wall switch to turn the fireplace on. |
| Fireplace OFF | Flip the master switch to Off ("O") position OR press the OFF ▼ button 3 times OR for memory off hold the OFF ▼ button 3 seconds or turn off wall switch. |
| Flame Height Up | Press the ON ▲ button once to turn the fireplace with Maximum flame height. |
| Flame Height Down | Press the OFF ▼ button to lower the flame height to Medium or Low. |

Self-Diagnostics Chart

The Command Center has a self-diagnostic LED display enabling you to troubleshoot problems and potentially avoid a service call. Please refer to the chart below for indicator reference.

| FAULT | LED INDICATION |
|---|--|
| Conversion Cover Missing | One RED (1 Time) |
| Spark Fail | Two RED (1 Time) |
| No Sensor Signal | Three RED (1 Time) |
| Trial Lockout | One GREEN, every 2 seconds (until manual reset) |
| Flames Loss Lockout | One RED -GREEN, every 2 seconds (until manual reset) |
| Low Battery | One RED, every 10 seconds (Continuously) |
| No or Low Thermocouple Power | Two RED, every 10 seconds (Continuously) |
| Learning | GREEN Flashes, every 1 second (For 10 Seconds) |
| AC Power On | GREEN Solid |
| Pressure Switch Failure (Power Vent Only) | One red every 2 seconds, until manual reset. |





**SIGNATURE
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Handheld Remote Control Quick User Guide

(Optional on some units.)

Operations: The following functions are available on the Signature Command Touch Screen hand-held transmitters TSMSC, TSTSC, and TSFSC.

| REMOTE | FUNCTION | OPERATION | ICON |
|--------|--------------------------|---|------|
| TSMSC | Fireplace ON | Press the ON ▲ button on the transmitter to turn fireplace on. | |
| | Fireplace OFF | Press OFF ▼ button 3 times or for (Memory OFF) hold OFF ▼ button 3 seconds or slide down from ON ▲ to OFF ▲. | |
| | Child Proof | Hold the ON ▲ button and the OFF ▼ button simultaneously 3 seconds to enter and exit Child Proof mode. | |
| | Flame Height Up | Press the ON ▲ button or slide up from the OFF ▼ to ON ▲ to get maximum flame setting. | |
| TSTSC | Flame Height Down | Press the OFF ▼ button to lower the flame height to Medium and press again for Low and a third time for OFF. | |
| | Timer Mode | Press TIMER button to enter timer mode then press (or slide) ON ▲ / OFF ▼ buttons to adjust timer time; press TIMER button again to confirm Hold TIMER button for 3 seconds to exit timer mode (or slide down on arrow buttons). | |
| TSFSC | T-Stat Mode | Press THERMO button to enter thermostatic mode then press (or slide) ON ▲ / OFF ▼ buttons to change SET temperature; Press THERMO button again to confirm Hold THERMO button for 3 seconds to exit thermostatic mode (or slide down on arrow buttons). | |
| | SMART Mode | Hold THERMO button and ON ▲ button at the same time for 3 seconds to activate Smart Mode option Repeat the above action to deactivate Smart Mode option press OFF ▼ button to exit Smart Mode and shut off fireplace. | |
| | Light Brightness Control | Press LIGHT button then press (or slide) ON ▲ / OFF ▼ buttons to adjust light brightness. Press LIGHT button again to confirm. Press Light button then slide down arrow buttons to shut off Light. | |
| | Blower Speed Control | Press FAN button then press (or slide) ON ▲ / OFF ▼ buttons to adjust blower speed Press FAN button again to confirm. Press Fan button then slide down arrow buttons to shut off Fan. | |
| | AUX Control | Press AUX button to turn on the auxiliary component. Press AUX button again to turn off the auxiliary component. *Head your fireplace manual. Some models use the AUX control to turn a rear burner on and off. | |
| | Blower Delay Setup | Hold FAN button for 3 seconds until two numbers show up, then use ON ▲ button to set the desired On Delay Time and Off Delay Time from 0 to 15 min. Use OFF ▼ button to jump from On Delay setup to Off delay setup or to exit Blower Delay Setup Mode. * The default settings for both the transmitter and the receiver are : 5 minutes for On Delay Time and 8 minutes for Off Delay Time. | |

Power Vent 7THPDVS



Power Vent Components

- Low Profile Power Venter with inside or outside accessibility for service
- New junction box is supplied with strain relief
- Power Vent module – allows connections for pressure switch and disconnection of thermopile
- New wire harness between Command Center and Control Board
- Probe Vent Section Assembly
- Adjustable termination pipe

Power vent

- Approved for all Signature Command Units where AC is present
- For Basic Signature command you must order SCSACM
- 110 Feet Max plus 6 x 90 degree elbows (12 x 45's or combination there of) totaling 540 degrees
- Max vertical is 66 feet, up to 5 feet below
- Battery back up and use of Aux terminal will be lost

Power Vent Notes

- To activate power vent on signature command, hold RF button while turning master switch on. One beep indicates 'ON'
- Restrictor Disk is 3 disks that can almost close completely or be just one bar wide depending on vent-run, will require knowledge of proper flame appearance so technician can adjust on site.
- Must use Aux terminals on the SCSACM, so on KHL models rear burner shutdown will be lost