

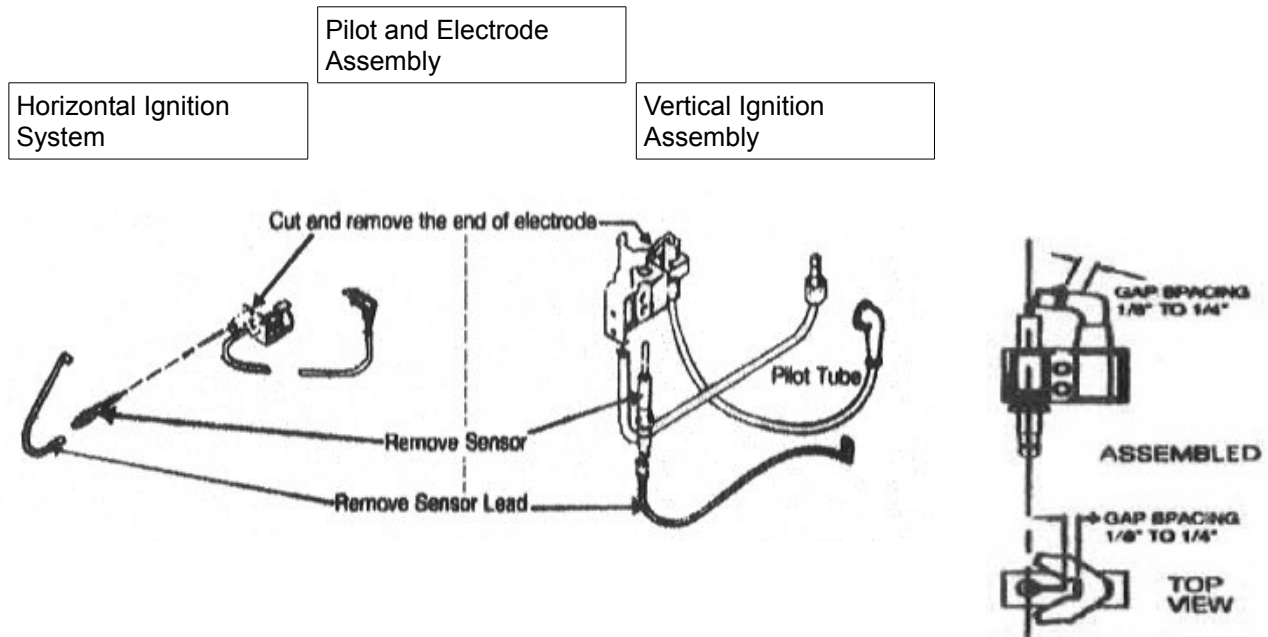


## Synetek IS5-G INSTALLATION INSTRUCTIONS

IS5-G is a functional replacement and up-grade for Baso/Johnson Controls G60 proven pilot control.

### PRE-INSTALLATION INSTRUCTIONS

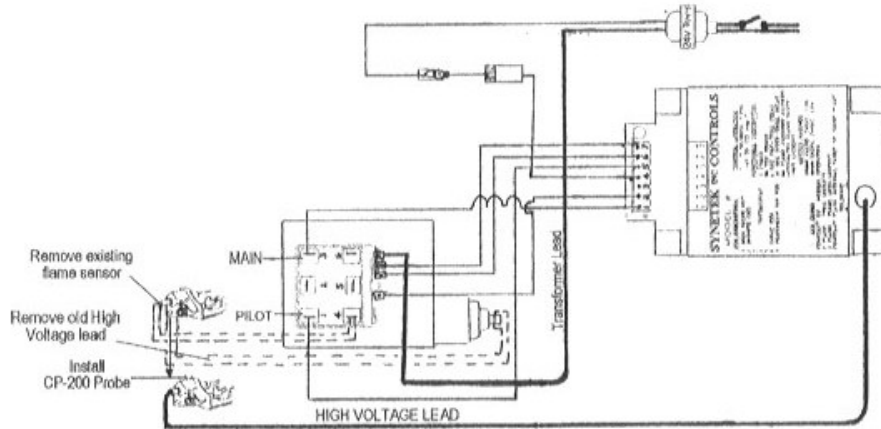
1. TURN OFF GAS AND POWER TO THE DRYER
2. REMOVE THE FOLLOWING PARTS
  - a. Remove Sensor Probe (use drill to clean sensor through hole for easy installation of CP200 probe)
  - b. Remove Sensor Wire
  - c. Remove High Voltage Lead
  - d. Cut and remove the end of electrode of existing igniter
3. INSTALL SYNETEK Igniter probe with gap facing pilot flame spreader.



CP200 Installation

### INSTALLATION INSTRUCTIONS

1. Remove black lead from terminal #1 of G60 and reconnect to IS1140B's Blue Lead (5)
2. Remove white lead from terminal #3 of G60 and reconnect to IS1140B's Red lead (1)
3. Remove transformer lead from terminal #5 of G60 and reconnect to IS1140B's black lead (4).
4. Connect both IS1140B's white leads (6,7) to the common 1/4" male tab on the G60
5. Connect IS1140B's green lead (2) to the common 1/4" male tab on the G60
6. Connect the high voltage lead from IS1140B to the igniter



## CHECK OUT SEQUENCE

1. Main burner lights and remains on. To insure proper sensing leave the main burner on for a least 30 seconds with all service doors closed, (Observe from rear of dryer)
2. TURN OFF using a thermostat, then turn back on
3. Turn Gas ON and use soap and Water solution to check input gas connections for leaks. If a leak is found repair BEFORE proceeding.
4. Turn Gas OFF.
5. Turn on the Electrical Power, Run the dryer through an operating cycle. Using a small dental type mirror to check that the spark is arcing. Make certain the spark is jumping form the electrode tip to the pilot burner hood and is not shorting to pilot assembly bracket.
6. Check that Sparking continues for about 30 seconds.
7. With spark ON, Check that 24 v is ON to Pilot and OFF to main
8. Turn gas ON, Run the dryer through an operating cycle. Air in the pilot gas line may cause a delay in ignition. After the air is purged pilot ignition should occur within a few seconds.

## SEQUENCE OF OPERATION

Dryer door is closed  
 Timer is on  
 Thermostat calls for heat  
 Airflow switch is closed  
 Power is applied to module  
 High intensity spark is on  
 Pilot valve opens  
 Pilot gas will light within two seconds  
 Main valve opens  
 After the pilot is ignited sparking will shut off immediately  
 Pilot flame is modified continuously during FLAME ON conditions. Should the flame fall, sparking will come back on and the main valve will remain off until the pilot flame is re-established.

## TROUBLESHOOTING

A qualified serviceman familiar with the dryer and the Synetek system should perform troubleshooting on the IS5-G system.

**PROBLEM:** Burned high voltage lead

**SOLUTION:** Check lint screen, venting and fan. Check airflow switch for proper operation, repair or replace as necessary.

## **TROUBLESHOOTING (continued)**

**PROBLEM:** No ignition spark, no gas no power is present to module

**SOLUTION:** Check the thermostat high limit switch, airflow switch, transformer and all connections, repair or replace as necessary. Make certain thermostat is calling for heat and timer is not on cool down cycle.

**PROBLEM:** No ignition spark, no gas but power is present to module

**SOLUTION:** Reset system by opening and closing the dryer door. If the system fails to reset replace the module.

**PROBLEM:** Ignition spark, no pilot gas

**SOLUTION:** Check out the gas supply from the valve, make certain the pilot gas valve operator is actuating. Check the voltage to the pilot valve. If the voltage is present and the pilot valve is not pulling in replace the electric operator. IF there is no voltage to the pilot valve, replace the module.

**PROBLEM:** Pilot burner is ON, main burner is OFF

**SOLUTION:** Check the wiring connection to the main valve operator. Check the voltage to the main valve Operator. If correct voltage is present, replace the main valve operator. Pilot gas operation.

**PROBLEM:** Ignition spark and erratic pilot gas ignition and operation.

**SOLUTION:** Using an inspection mirror, check for proper probe placement in the pilot assembly. Make certain the ceramic Probe is not broken or shorting out to the pilot assembly. Replace probe if necessary. Check gap placement to pilot on the illustration shown on front side.

## **WARRANTY**

Synetek Controls, Inc. guarantees to the first retail purchaser, that should the control module be defective and it is our fault during the first year from date of installation, Synetek will provide a replacement or repair the module.

### **Synetek Controls, Inc.**

Wellington, CO Phone: (970) 568-7880 Fax (970) 568-9460

[www.synetek.us](http://www.synetek.us)