



# ICM295

## Spark Ignition Control Module

### REPLACES

**Replaces:** *Carrier LH33WZ510 and comparable ignition controls.*

### FEATURES

- Spark Ignition Control Module
- Microprocessor based
- For use with intermittent pilot boilers, furnaces and other heating appliances
- Continuous spark until pilot flame established
- Push-on, high tension quick connect terminals
- Compatible with LP or Natural Gas

### SPECIFICATIONS

**Control Voltage:** Line 24 VAC (18-30 VAC) @ 50/60Hz  
**Prepurge:** 0 or 10 seconds (system dependent)  
**Retries:** Continuous  
**Operating Temperature:** -40°F (-40°C) to 75°C (176°F)  
**Relative Humidity:** 0% to 95% non-condensing  
**Spark Frequency:** 15Hz for 90 seconds, 10Hz thereafter

### SAFETY CONSIDERATIONS

Only trained personnel should install or service heating equipment. When working with heating equipment, be sure to read and understand all precautions in the documentation, on labels, and on tags that accompany the equipment. Failure to follow all safety guidelines may result in damage to equipment, severe personal injury or death.

### REMOVE EXISTING CONTROL

**CAUTION!** *To service control, and prior to disconnection, label all wires. Failure to do so may result in wiring errors that can cause dangerous operation.*

1. Turn thermostat to OFF position or set it to the lowest possible setting.
2. Turn OFF electrical supply to furnace/appliance.
3. Turn OFF gas supply to furnace/appliance.

**CAUTION!** *Failure to turn off gas and electric supplies can result in explosion, fire, death, or personal injury.*

4. Label each wire with the correct terminal designation.
5. Disconnect the power supply and the thermostat lead wires from the existing ignition control.

### INSTALL NEW CONTROL

1. Attach existing ignition lead to the ICM295 ignitor module. If the lead cable includes a wire terminal, cut off the wire terminal and push the unstripped end over the metal spike on the top of the ICM295 ignitor module. Make sure that the metal spike is in contact with the wire in the ignition cable.
2. Make sure that the end of the ICM295 ignitor module with the grommet is securely grounded.
3. Reconnect the supply voltage lead. (Add quick connect terminal to existing wires if/where necessary).

### FOR DUAL TERMINAL CONTROLS

Use terminals T1 and T2 when replacing a spark ignitor with two terminals. For furnaces that require a prepurge delay, use Terminals T2 and T3. Refer to the wiring chart below for more details.

Terminals	Connections
T2	Common / Ground
T1 – T2	24 VAC (no purge cycle)
T2 – T3	24 VAC (with 10 second purge cycle)