



## **CORAYVAC® Regulator Replacement Kit (P/N 02725300) Instructions**

Over the years, various regulator valve combinations have been employed in the CORAYVAC® B and E Series burners. The regulator in this kit replaces all previously used versions. Please follow these instructions carefully in order to ensure the use of correct replacement parts and procedures.

**This kit should contain: 500Z Regulator, 1/2" Close Nipple, 3/8" Close Nipple, Face Bushing.**

The first step is to identify the regulator currently in your burner. To do so, please note the illustration on the back of this page. As can be seen, the R400SZ and R500Z regulators are quite different in size and shape thus, easy to differentiate.

Once you have identified your current regulator, please follow the appropriate directions below.

### **Replacement Procedures**

The following steps are identical for all regulator replacements:

- 1.) Before servicing the heater, make sure the system is turned off.
- 2.) Disconnect the power plug and turn off the gas to the burner.
- 3.) Remove both doors on the CORAYVAC® burner housing.
- 4.) Dismantle the burner by disconnecting the flex gas line from the pipe nipple using (2) two pipe wrenches to prevent the nipple from turning.
- 5.) Disconnect the electrode wire and flame sensor wire from the burner head.
- 6.) Remove two (2) allenhead screws connecting the burner head to the burner housing.
- 7.) Remove entire burner housing and gas train to work bench.
- 8.) Disconnect the green, brown and yellow wires from the gas valve.

### **Completion Of Replacement Procedures For R500Z Regulator:**

The regulator included in this kit is an R500Z. Therefore, replacement is straight forward (See Fig. 1 on back page):

- 9.) Remove the valve train assembly from the burner housing. The valve train assembly includes (from left to right) the mixing block, 3/8" close nipple, face bushing, gas valve, 1/2" close nipple, R500Z regulator and 4" pipe nipple.

Reusing your mixing block, valve and pipe nipple, reverse order of installation utilizing the identical new regulator and bushings included in the kit. The use of pipe joint compound on all joints is mandatory.

### **Completion Of Replacement Procedures For R400SZ Regulator:**

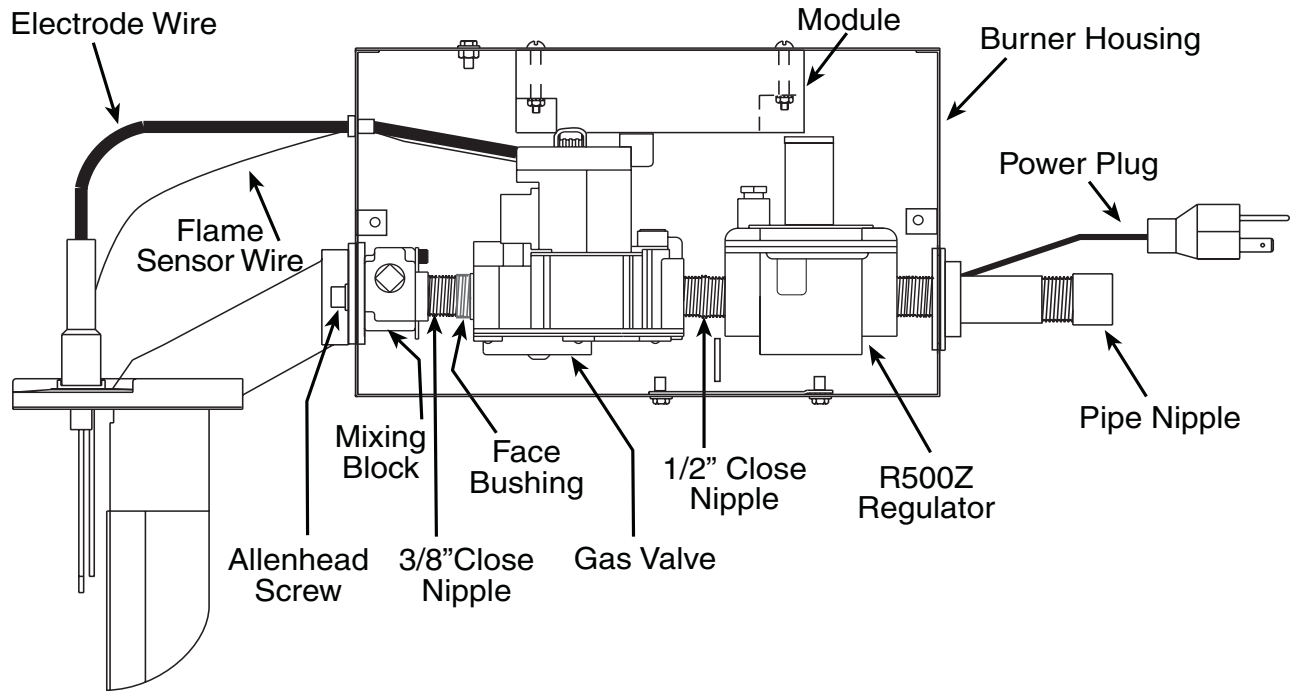
The regulator included in this kit is an R500Z. Therefore, some of the connecting parts must be replaced with new parts from this kit. (See Fig. 2 on back page):

- 10.) Remove the valve train assembly from the burner housing. The valve train assembly includes (from left to right) the mixing block, 3/8" close nipple, brass reducing bushing, face bushing, gas valve, 1/2" (1-3/4" long) close nipple, R400SZ regulator and 4" pipe nipple.
- 11.) Reusing your mixing block, valve and pipe nipple, assemble a new gas train assembly as follows (left to right):  
Mixing block, new 3/8" close nipple, new face bushing, valve, new 1/2" close nipple, new regulator, 4" pipe nipple.  
The use of pipe joint compound on all joints is mandatory.

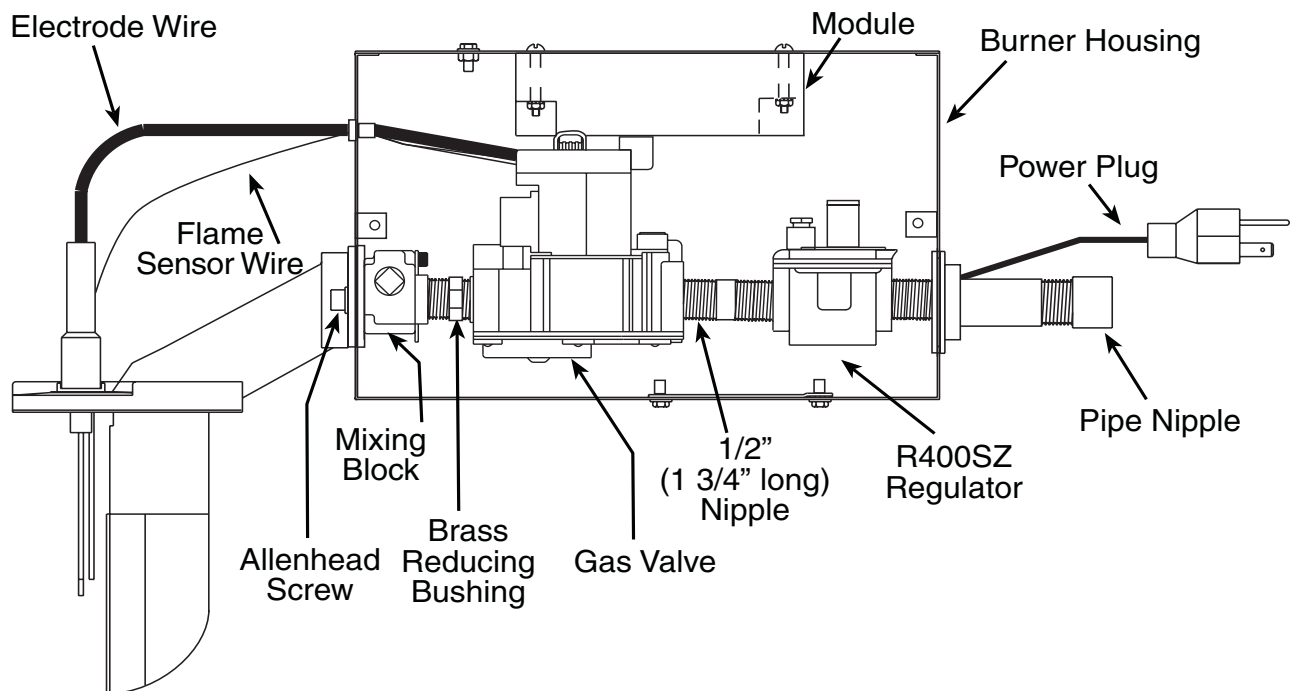
**If you have any questions regarding these instructions, please call Roberts-Gordon's technical service department at 1-800-828-7450, Monday - Friday, 8:15 am - 4:45 pm, eastern standard time.**

# CORAYVAC® R500Z Regulator Replacement Kit

**Figure 1**  
CRV with R500Z



**Figure 2**  
CRV with R400SZ



For clarity, not all CRV parts are shown.