BC ROASTERS IGNITER SYSTEM

2. IGNITER WILL SEND VOLTAGE TO THE SOLENOID TO OPEN UP AND ALLOW GAS TO MOVE THROUGH INTERNAL GAS LINES TO BURNER

ALSO IGNITERSENDS VOLTAGE TO BURNER ROOM NEEDLE TO SPARK

4. GAS PRESSURE TO BURNERS ARE ADJUSTED BY THE NEEDLE GAS VALVE

3. VOLTAGE FROM IGNITER ALLOWS SOLENOID TO OPEN UP AND LET GAS FLOW FREELY TO THE BURNERS

IGNITER

OR ROASTING BUTHON

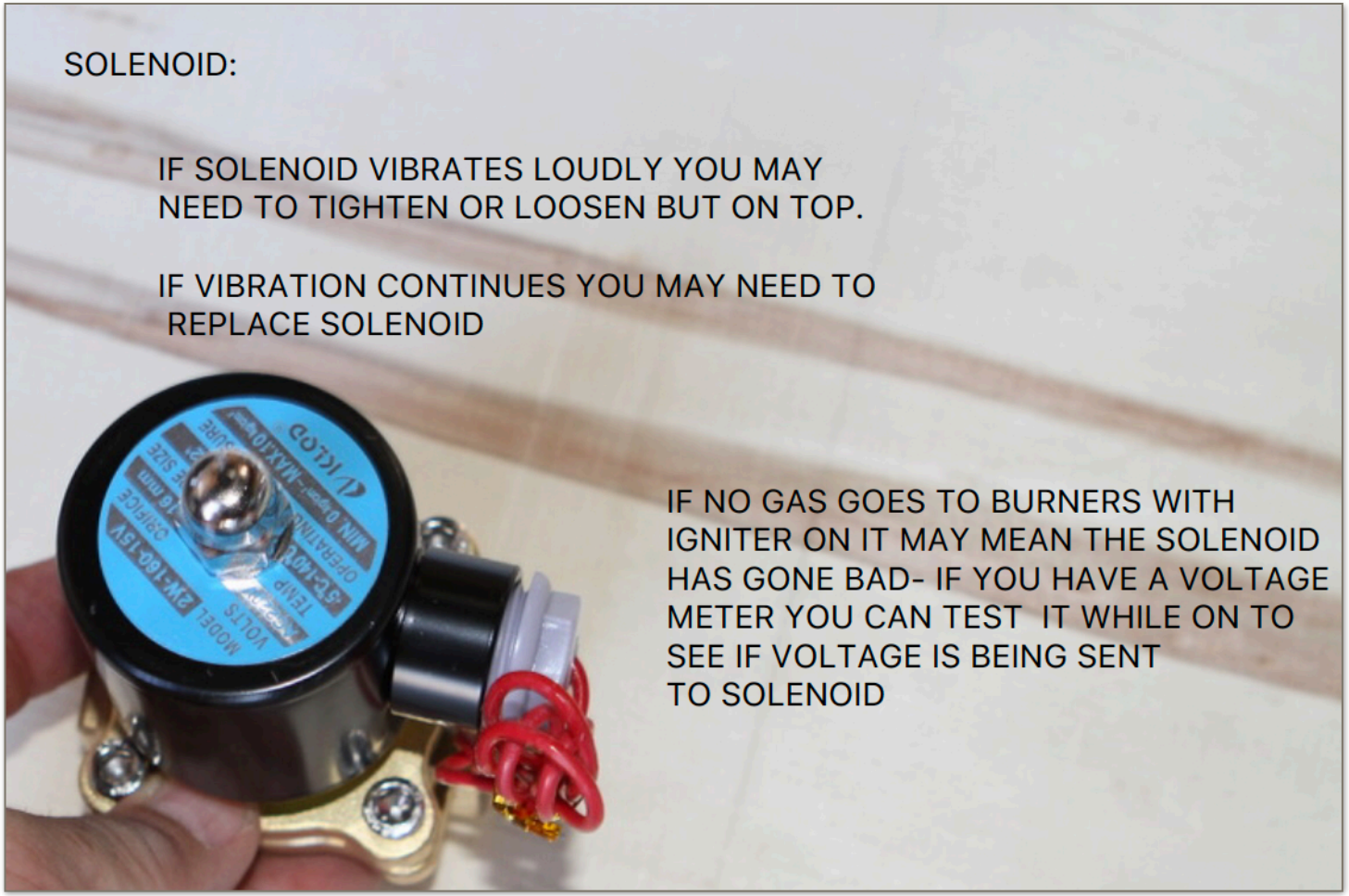
1. PRESS THE IGNITER OR ROASTER BUTTON TO START IGNITERSYSTEM

5. AT THE SAME TIME THAT IGNITER BUTTONI IS PRESSED ON CONTROL PANEL VOLTAGE IS SENT TO IGNITER NEEDLE CAUSING IT TO SPARK AND IGNITE FLAME

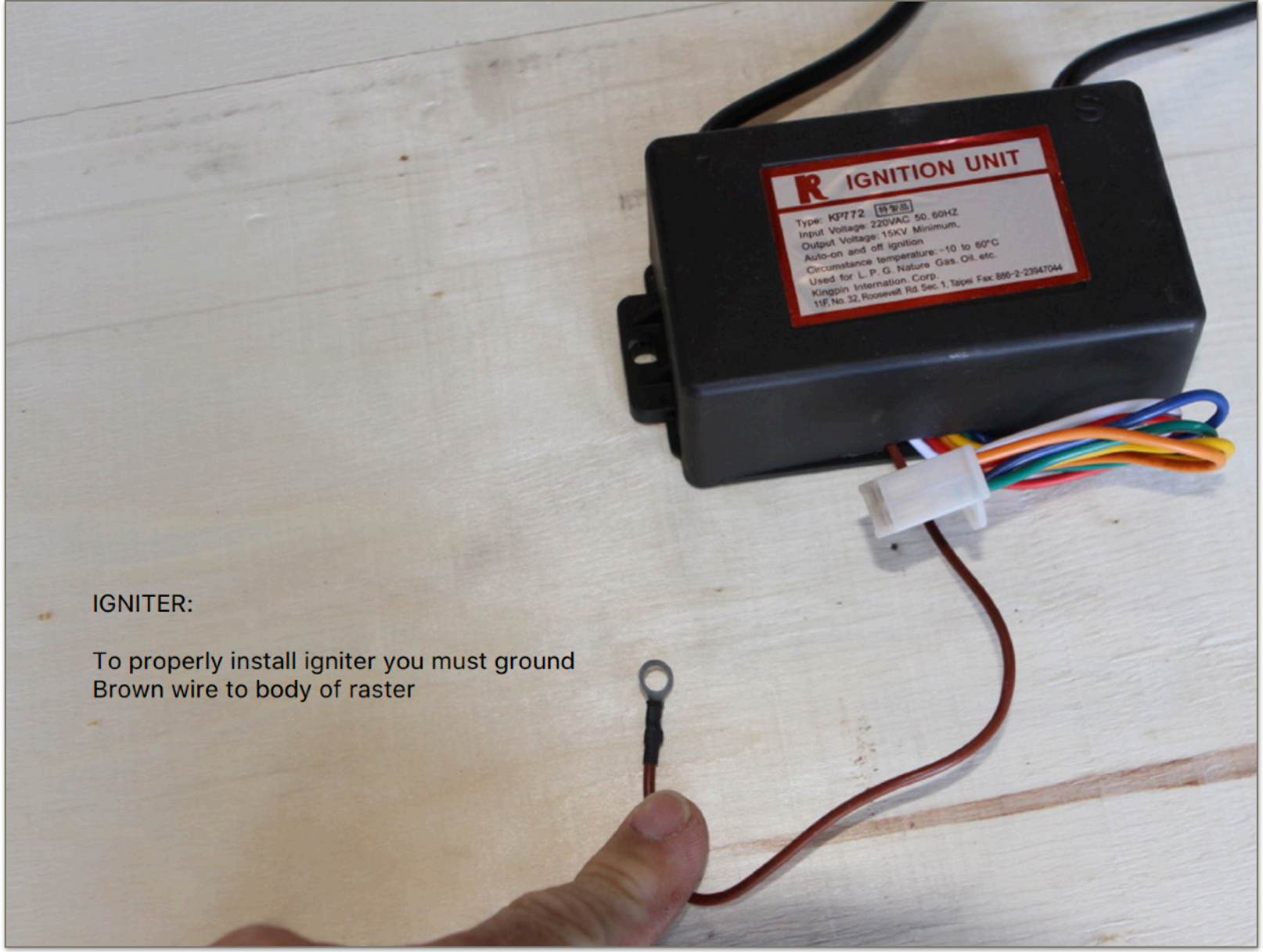
THE IGNITER SYSTEM CONSISTS BASICALLY OF 3 MAIN PARTS:

1. **IGNITER**
2. **IGNITER NEEDLE**
3. **SOLENOID**

BC ROASTERS IGNITER SYSTEM

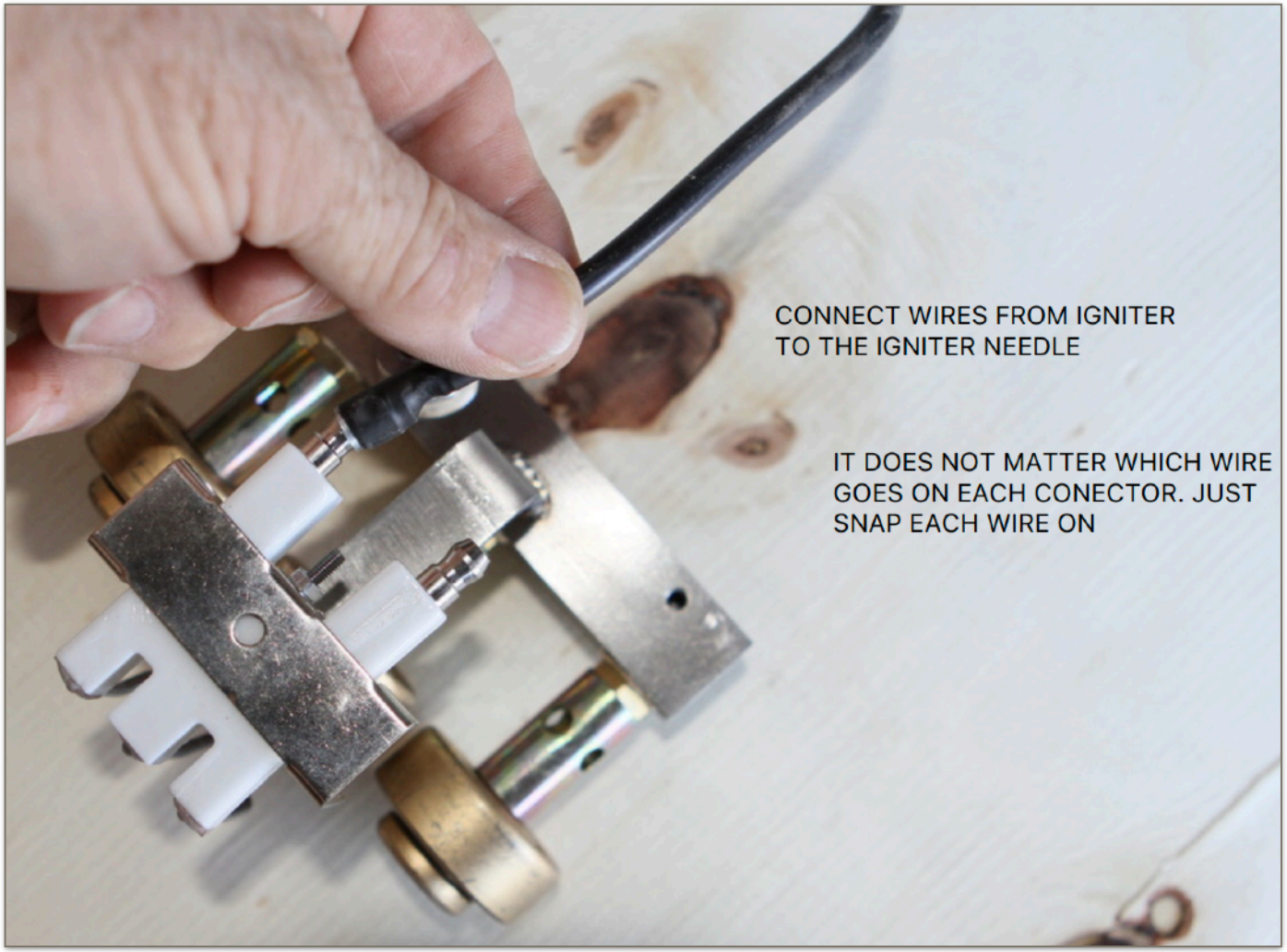


When you press the igniter button on control panel (It may say roasting or baking on button) This signals the igniter to do two things. It sends electric voltage to the solenoid to open it up and at the same time sends voltage to the igniter needle to spark. So once the voltage reaches the solenoid the valve opens and let's gas through to burner room. On a cold or first startup this may take several *seconds for gas to reach the burners which may result in having to press the igniter button more than once. (also be sure at least some airflow is running through burner room by opening the manual damper to 2 or more as needed) *if burner does not light within a few seconds igniter will turn off and send off an alarm. if this happens simply turn off igniter button then turn back on to attempt lighting again



The igniter needle works with the igniter to spark until burners light. If burners don't light after a few seconds the Igniter shuts down preventing excessive gas from entering burner room for safety purposes. If that happens an alarm goes off. Then you need to turn off the roasting or igniter button. Once turned off check airflow and gas pressure and press the igniter button again. Once lit the flame of burner will touch the 3rd needle on the igniter needle which is a sensor telling the igniter that roaster lit and it stops the igniter from continuing to spark. Once the burners are properly lit and stable the light on the roasting or igniter button should light up and stay lit.

BC ROASTERS IGNITER SYSTEM



If this system fails to work properly there are ways to check what is wrong.

IF the gas cutting off if **igniter does not try to restart while button is pressed in this likely means the igniter has become defective.**

But you can also test the solenoid to see if the issue is with it. If you are skilled using a voltage meter you can check after turning on roaster and flame goes out to see if the wires going to solenoid are getting voltage.

If the solenoid is getting voltage but not opening then the solenoid is bad. If you or a person at your company is not able to use a voltage meter than using the visual methods described in this guide and other PDF's will help us find issue.

BC ROASTERS IGNITER SYSTEM

IF ROASTER BURNERS LIGHT BUT THE IGNITER NEEDLE CONTINUES TO SPARK THEN ISSUE IS LIKELY ONE OF THESE ISSUES:

1. **IGNITER NEEDLE IS NOT PROPERLY ALIGNED TO BURNER. THE 3RD NEEDLE HAS A SENSOR THAT WORKS WITH THE IGNITER TO INDICATE A FLAME EXISTS SO IT WILL STOP TRYING TO SPARK AND LIGHT ROASTER**
2. **THE GROUND WIRE ON IGNITER IS NOT PROPERLY GROUNDED TO MACHINE**
3. **THE IGNITER NEEDLE HAS GONE BAD AND SHOULD BE REPLACED**