NG INSTRUCTIONS FOR HODELS #711, #911, #1111 #1317, #1717, #70, #90, #100, #130, #150 & 4170

Hague Hring:

- a. Run kiln on LOW for about # hour. Longer for vey heavy pieces and if pieces are very thin assi small LOW will not be necessary. If you have a por voltage condition causing an unusual long firing period, low firing may be ignored. If yo have a pyrometer, a reading of about \$50 degrees F. is about right before turning kiln to MEDIUM set.
- After kiln has attained proper tamperature on LdW, turn kiln to medium for about one hour. ь. pieces are very small and thin, medium will not me necessary. If you have a voltage condition causing long firing skip medium. 800 degrees F, is about right at the end of medium firing. Turn kiln to high and fire to maturing of cone & corresponding reading of your pyrometer. c.

Glaze Firing:

- a. If pieces are vitrified, large, thick or box like in shape, always use low to start your glaze firing except when you have bad voltage. Fire a low for about 4 hour, or if you have a pyromater, fire to about 450 deglees F.
- b. After kiln has strained proper temperature on ich, turn kiln to medium for about one hour. Medium can be skipped if your pieces are small, or if you have poor voltage. If you have a pyrometer,
- fire on medium to about 800 degrees F. Turn kiln to high and fire until maturing temperdure of cone or corresponding reading on your C. pyrometer.

Models 1317 and 1717 have six heat control. This makes it possible to obtain very close control of temperature differences under the many firing coultions that exist for the average ceramist. For very tall pleces, where the load is not heavy, het spots at the top of the kiln may be avoided by d. firing the bottom switch on high and the top switch on medium. Other firing problems may arise that will require other methods but if you bear hi mind that the top switch controls the temperature at the top of the kiln you will be able to do many things not possible in most kilns. For normal loads this will not be necessary, just follow above directions with both switches.

Decorating Herind:

Follow above directions in most cases. However, it will be necessary to fire with the door slightly open until the oils in your decorating medium have been burned away. This will usually occur when the kiln has attained 800 degrees F. When the oils have burned off, close the door of your kiln and fire until the maturing point of your come.

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Poor Toltage:

If your kiln takes an unusually long time to fire it is possible that you may have poor voltage. First, check your receptable for poor connections. If receptacle heats up and is very hot to the First, check your receptable for poor connections. If receptable nears up and is very not to the touch replace with a heavier-duty receptable. Sometimes running a heavier line such as \$12 for the smaller models and \$10 for the larger kilns will correct the trouble. In some cases it is possible for your electric company to correct the trouble. Ask them to run a "RECORDED VOLT TEST" with the kilnnrunning and also with the kiln not running. Ask for the results of the test and if the aver-age voltage is less than 110 volts an extended firing time may be expected. This test should be run over a 24 hour period to give you an exact picture of your voltage.

Frouble Shooting:

- if elements do not heat follow this procedure:
 - 1. Check to see that plug is in receptacle proparly. 2. Check fuses. Put in new ones just to be sure.

 - Check elements by testing with a test lamp or some similar method.
 - 3. If fuses are O.K. then the trouble is with the switch. When ordering the switch give model ¥., number of the kiln and the make of the switch, as several types of switches have been installed on our kilns.

Replacement of Hredrich:

All linings can be replaced on our kilns. Directions for installing are given for installation when the brick is ordered.

Patching Bracks and Cracks in your Iiln:

All firebrick crecks with use, and if serious craks develop they may be repaired by high tempera-ture cement being applied to the fire-brick. Apply when kiln is cold. Before applying cement wet part to be repaired with a little water. This will make a better bond. Allow cement to dry before firing kiln about 2% hours.

Replacing Elements:

All elements come stretched to the proper length for replacement. Take your elements out one at a time and replace with a new one. This is so that your wires do not become mixed up. However, if pliers. If elements come out of the grooves merely force back into place with the same thin-nosed pliers. Coment may also be used on the edge of the grooves to baid allocations to baid allocations to baid allocations and the same thin-nosed pliers. Comment may also be used on the edge of the groove to hold elements in place. Make certain that the high temperature commant does not enclose any part of the element. Do not close in the gap of the groove thrugh, as that may cause element follure.

Cars of Itla:

Apply kiln mash to floor of kiln so that if glaze drips it may easily be removed. Apply on a thin cost. Remove glaze drippings immediately. Vacuum clean kiln occasionally to remove particles of foreign matter.

Guarantaa:

Sand in the lower portion of your guarantee and kiep the upper part for your records. This is very important and 17 it is not done the guarantee may be void. Our elements are unconditionally guaranteed for one year. Do not fire the kiin over 208 degrees F.