

# INSTRUCTIONS FOR THE FIELD BAROCHEK CONTROL

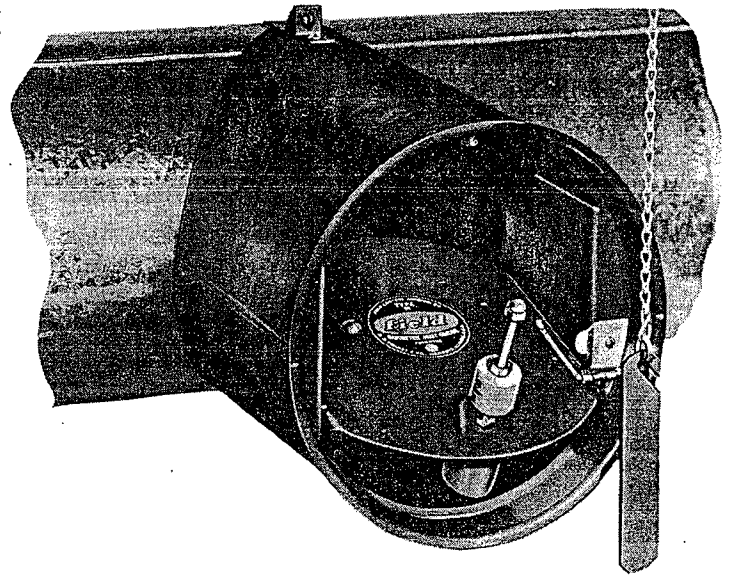
(For regulation of drafts with a Hand Fired Heating Plant.)

The Barochek Control, which is the new 9 inch Type M Field draft regulator equipped with a lever arrangement, combines the features of a check damper and a barometric control. The ordinary check damper is eliminated.

## INSTALLATION

The Barochek should be attached to the flue pipe in the manner outlined in the regular instruction sheet. The lever and bracket are shipped loose in the carton and must be bolted to the draft control ring. See illustration — which shows a close-up of the Barochek.

1. Connect a chain to the lever on the Barochek using a wire hook for the purpose, which should be squeezed shut to prevent it from becoming disengaged.
2. If dampers will be operated by hand, run the chain from the Barochek up to the first floor. If a damper motor will be used, connect the chain from the Barochek to the damper motor. The ash pit draft damper will also be operated by means of a chain which should run up to the first floor or to a damper motor. If a check damper on the flue pipe has been used, disconnect any chain or rod and seal the check closed.

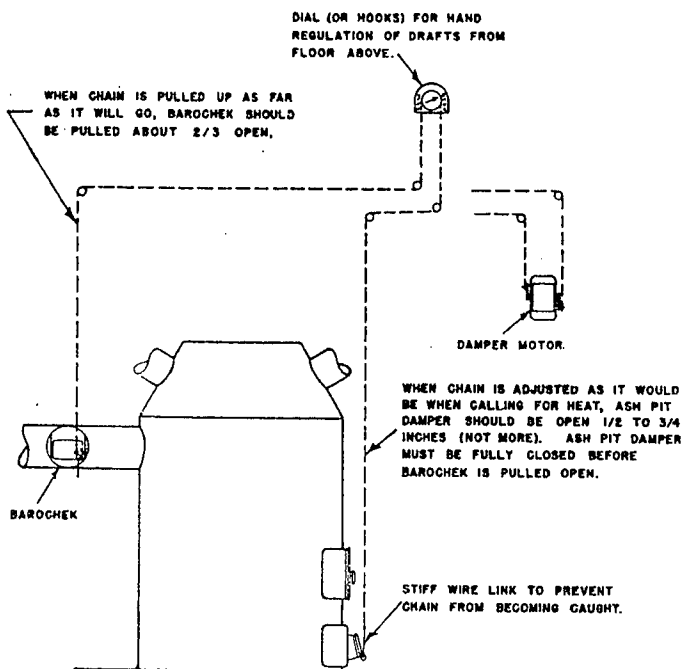


## ADJUST THE CHAINS AS FOLLOWS:

3. Make the ash pit draft damper open by turning the dial or raising the chain as far as it normally will go, (or by operating the damper motor, if one will be used.)
4. Adjust this chain so that the ash pit draft damper opens between one-half an inch and three-quarters of an inch, never more. (Too great an opening will cause the house to overheat, with waste of fuel.)

The chain connected to the Barochek should now be slack, that is, the lever on the Barochek should not push the gate of the control open when the ash pit damper is open. If a fire is burning, usually the gate of the Barochek will then be swinging from the closed position to a partly open position, depending upon weather conditions.

5. Now move the chains or operate the damper motor to the position where the fire should be fully checked. The ash pit draft damper should be entirely closed and the gate of the Barochek pulled partly open. CAUTION: The chain to the Barochek should never be so tight that the gate is pulled entirely open, or the lever on the control may be bent, or the damper motor (if used) will stall and burn out.



WARM AIR FURNACE, WITH DRAFTS CONTROLLED BY HAND, OR BY THERMOSTAT AND DAMPER MOTOR

FIG. 1

The Field Barochek is preset at the factory to maintain essentially .06" draft in the flue pipe when the gate is free to swing, and this will provide enough draft for the majority of installations. However, the setting may be changed by following the regular instruction sheet. Remember that it is extremely wasteful of fuel, and often dangerous, to drive or force a fire at a high burning rate in order to warm a building in a hurry. The Field Control will provide a moderately rapid pick-up or response, but prevent waste of heat out the chimney.

**NOTE:**

The Barochek has more checking ability than the average check damper, so it is recommended that at first the chain be adjusted to open the gate of the control only about two-thirds of the way. Later, if the fire is not checked enough the gate can be made to open more.

**GENERAL INSTRUCTIONS  
WITH HAND OR DAMPER MOTOR REGULATION**

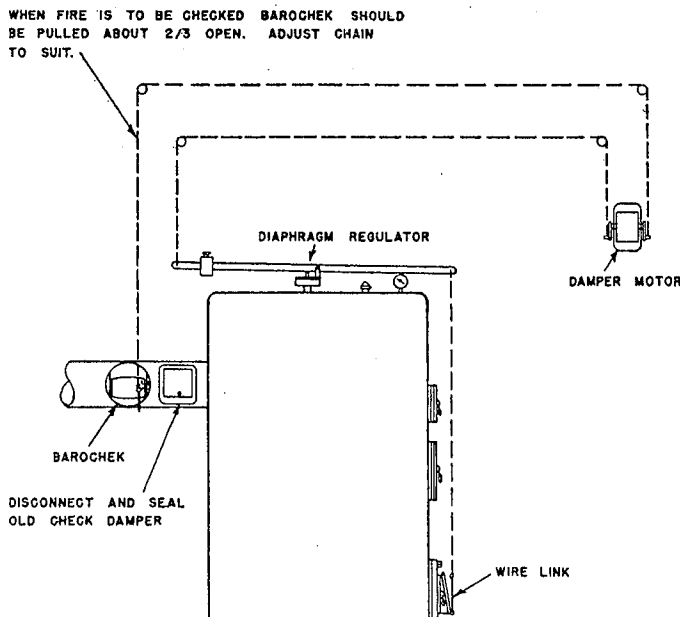
The Barochek SHOULD NEVER BE MADE TO OPEN TO THE CHECKING POSITION WHEN THE ASH PIT DRAFT DAMPER IS ALSO OPEN. In other words when the Chain on the BAROCHEK forces the gate open, the ash pit damper should be closed, and vice versa.

**CAUTION**

With damper motor installations the chains may run in different ways (through pulleys or directly to the Barochek). It is sometimes necessary to remove one lever or crank on the damper motor, rotate it to another position and again attach it to the motor shaft, in order that the ash pit draft damper and the Barochek will open and close in proper relation.

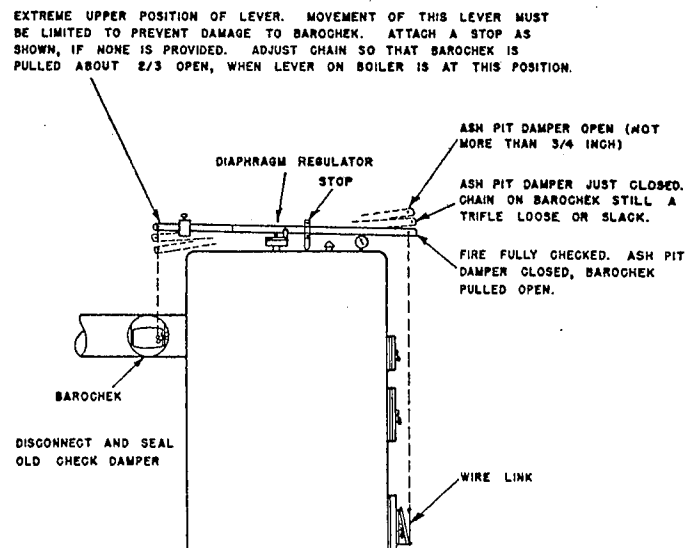
**FIRING THE FURNACE OR BOILER**

Many people make a practice of increasing the drafts momentarily when adding fresh fuel to the fire. This practice can be continued after the installation of the Field Barochek, whether hand or motor operated. Most damper motors have a switch for this purpose, (or can be so equipped.) Be sure, however, to set the drafts, or the switch, as the case may be, back to the original position after firing the furnace, or the house will overheat. Most users of soft coal know that if no fine or slack coal is mixed in the fuel, the fire will respond more readily when there is a need for heat. However, it has been the impression that slack coal was needed for banking the fire. Performance is improved with all grades of coal with the Barochek, but it eliminates any need for slack coal purely for banking purposes.



BOILER WITH DIAPHRAGM REGULATOR, THERMOSTAT AND DAMPER MOTOR, AND BAROCHEK.

FIG. 2



HAND FIRED HOT WATER OR STEAM BOILER WITH DAMPERS CONTROLLED BY A DIAPHRAGM TYPE REGULATOR. (IF BOILER DOES NOT HAVE A DIAPHRAGM REGULATOR, FOLLOW INSTRUCTIONS FOR A WARM AIR FURNACE)

FIG. 3



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