

BECKETT Z GAUGE

NOZZLE ASSEMBLY AND ELECTRODE
SETTING GAUGE

KIT # Z2000

FOR USE ON "F" AND "FB" STYLE
RETENTION HEADS

RWB 61384

The Beckett Z gauge is designed for use on Beckett AF, AFG, SR and SF oil burners that use the "F" style retention head, and AFII burners with "FB" style retention heads.

The Beckett Z gauge enables the technician to set the nozzle to the proper distance from the combustion head **without removal of the oil burner** from the heating appliance. It also allows the technician to conveniently adjust the electrodes to Beckett specifications.

HAZARD DEFINITIONS

DANGER Denotes presence of a hazard which, if ignored, will result in severe personal injury, death or substantial property damage.

CAUTION Denotes presence of a hazard which, if ignored, could result in minor personal injury or property damage.

INSTRUCTIONS

DANGER *Disconnect all power to the oil burner before using the Beckett Z Gauge.*

1. Disconnect the copper connector tube and the spline nut from the nozzle line. Loosen but do not remove the 5/16" hex screw that secures the escutcheon plate.
2. Loosen the clips that secure the ignitor. Tilt the ignitor back on its hinge. Remove the **Nozzle Line Electrode Assembly (NLEA)** from the oil burner housing. See Figure A.
3. Slide the Beckett Z gauge over both the nozzle and the nozzle adapter with the open side facing up. See Figure B.
4. If electrodes are already positioned correctly as shown in Figure B, proceed to step 5. If electrodes are not already positioned, loosen the electrode clamp and place the electrode tips at the prescribed marks given on the Z gauge. See Figure B. Secure the electrode clamp. **TO PREVENT CRACKING THE INSULATORS, DO NOT OVER-TORQUE THE ELECTRODE CLAMP.** The electrodes are now set to the factory specifications of 5/16" above center of the nozzle, 1/16" in front of the nozzle and a 5/32" gap between the electrode tips.

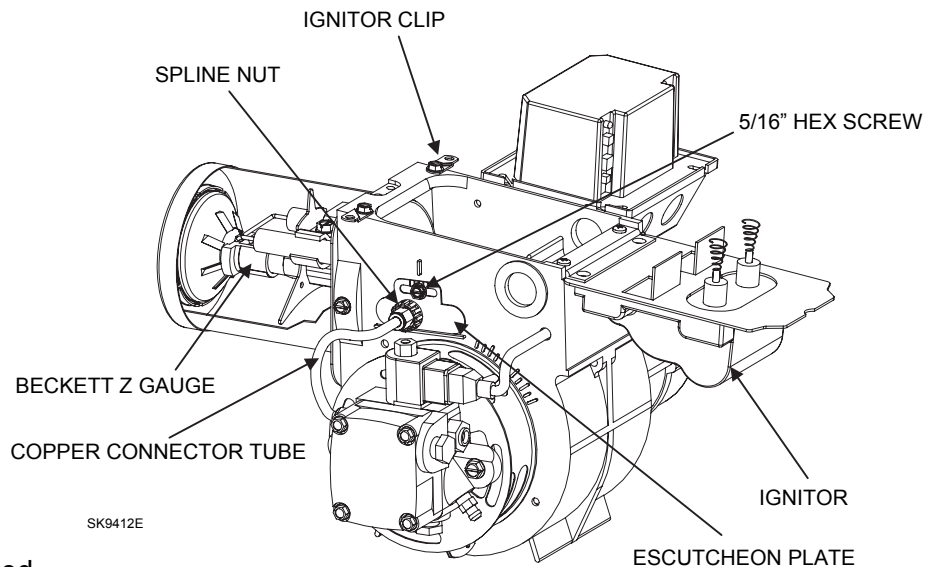


FIGURE A

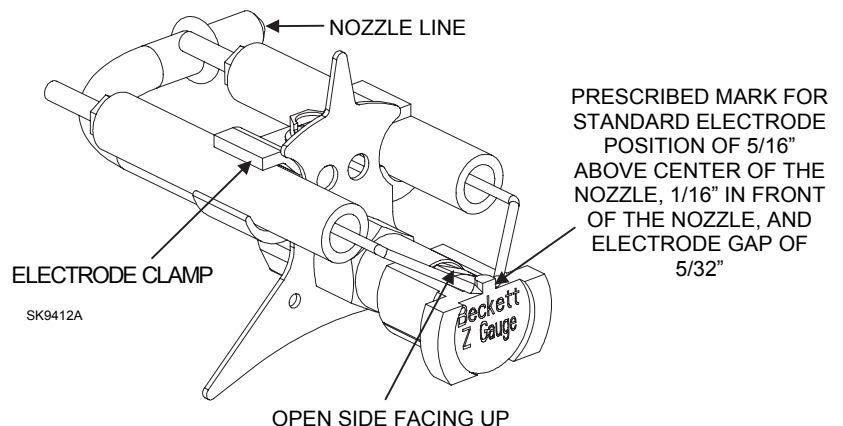


FIGURE B

5. Reinstall the NLEA with the Z gauge into the burner. Push the NLEA forward as far as it will go. The Z gauge should be touching the back of the retention head. See Figure C. Replace the spline nut onto the NLEA and finger tighten.

6. Mark the escutcheon plate location on the burner housing. See Figure D.

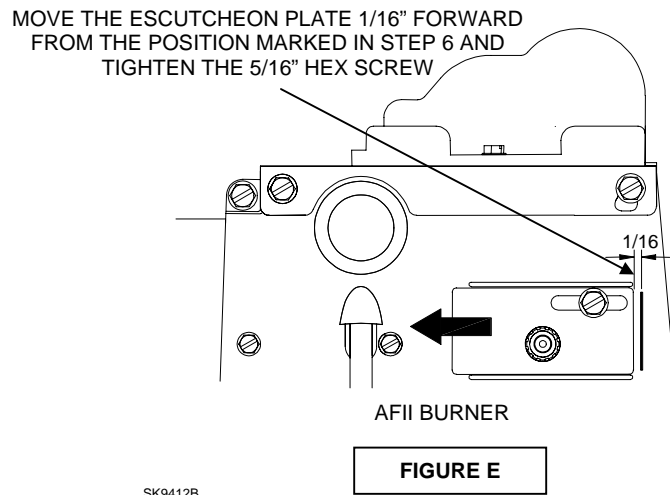
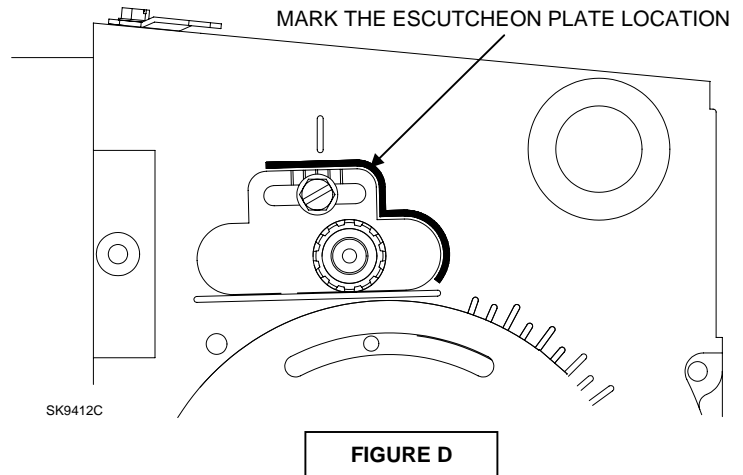
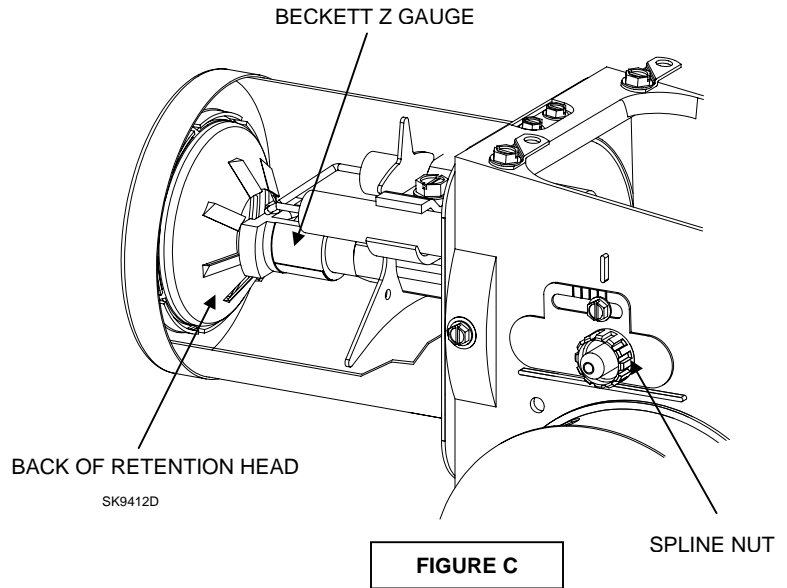
7. Remove the NLEA from the burner housing and detach the Z gauge from the NLEA.

CAUTION *The Z gauge must be removed from the burner before the burner is put into operation.*

8. Reinstall the NLEA into the burner. Adjust the escutcheon plate to the mark made in Step 6 and tighten the 5/16" hex screw to secure the escutcheon plate. **Note: When using the Z gauge to set the nozzle assembly on the AFII burner using the FB retention head, the escutcheon plate (NLEA) must be moved 1/16" forward toward the head from the position previously marked in step 6.** See Figure E.

9. Tighten the spline nut onto the NLEA, and reconnect the copper connector tube. Close the ignitor and tighten the ignitor clips.

If further assistance is needed, please contact our Technical Service Department at 1-800-645-2876.



R.W. BECKETT CORPORATION
P.O. Box 1289, Elyria, Ohio 44036
R.W. BECKETT CANADA, LTD
430 Laird, Unit 3, Guelph, Ontario, N1G 3X7