

Economite RE4400DS Power Gas Burners Preventative Maintenance



CAUTION: Read and understand this service bulletin thoroughly before starting. Only a trained, experienced service technician should attempt this service procedure.

NOTE: Annual preventative maintenance is recommended BUT if the burner is installed in adverse conditions, a space with dirty conditions or ambient contaminated air conditions, the preventative maintenance will need to be performed more often.

NOTE: Maintenance must be performed by an authorized Midco representative, qualified service agency, fuel supplier or the equipment manufacturers technician.

NOTE: Use only genuine Midco specified and approved replacement parts.

NOTE: Review the Midco installation and service manual to verify that the burner is installed and operating properly and safely.

NOTE: Review the appliance manufacturers installation and service manual to verify that the appliance is operating properly and safely.

1. Turn the power to the burner OFF.
2. Turn the gas to the burner OFF.
3. Perform a complete visual inspection of the burner. Correct any issues that are not proper, correct or are unsafe.
4. Remove the burner cartridge/drawer assembly and inspect the electrodes (spark rod assembly and flame rod assembly)
 - a. If the rods are dirty or if a coating exists, clean the rods with an emery cloth. Replace if worn or damaged.
 - b. Inspect ceramic insulators for cracks or other damage. Replace if cracked, worn or damaged.
 - c. Inspect to insure that the electrodes are secured properly. Tighten if need be but be careful not to crack/break the ceramic insulator.
5. Inspect the ignition cable assembly, flame sensing wire assembly and their connectors to insure all is proper and the connections are tight. Replace if damaged.
6. Inspect the burner head for soot/carbon build up. If soot/carbon exists, the burner needs to be tuned/adjusted by a qualified service tech using a combustion analyzer.
7. Inspect the blower air inlet screen. Clean if necessary. Replace if damaged.
8. Inspect the blower wheel and blower wheel vanes. Clean if necessary. Replace if damaged.
9. Inspect the blower wheel to verify that it spins freely.
10. Inspect the motor ID spec plate/label. If motor oiling is required follow the instructions on the motor ID spec plate/label.
11. Inspect all wires on the burner and inside the burner electrical compartment to insure that the wires are not damaged and that the connections are proper and tight. Repair or replace if not proper or if damaged.
12. If everything is safe, turn the gas to the burner ON.
13. If everything is safe, turn the power to the burner ON.
14. Cycle the burner several times to insure proper operation.
15. Using a combustion analyzer, make sure that the burner emissions are proper. Adjust/correct if need be. If need be, consult Midco for further assistance.



Caution: If anything is unsafe, report this information to the owner and leave the power and gas OFF.

AVOID ERROR IN PARTS SELECTION. When ordering use complete MIDCO Part Number and Description. Furnish Burner Model Number, Bill of Material Number and Serial Number (if available) from the specification plate found on the product.

IMPORTANT: Availability of parts as well as specifications are subject to change without notice. Please consult factory for item availability.

SAFETY INFORMATION TERMS: The following terms are used to identify hazards, safety precaution of special notations and have standard meanings throughout this manual. They are printed in all capital letters using a bold type face as shown below, and preceded by the exclamation mark symbol. When you see the safety alert symbol and one of the safety information terms as shown below, be aware of the hazard potential.



DANGER: Identifies the most serious hazards which will result in severe personal injury or death.
WARNING: Signifies a hazard that could result in personal injury or death.
CAUTION: Identifies unsafe practices which would result in minor personal injury or product and property damage.



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