

Technical Report Gasket Inspection

Overview

All Blaze King wood burning appliances are air tight construction. All primary and secondary air that enters the stove comes from the opening above the bar that runs across the top of the loading door opening. The air is regulated and controlled by the thermostat assembly which allows the operator precise control of the appliance combustion.

Description

Both the door and the window glass gasket must effectively seal the firebox in order to prevent any additional air from entering. The bypass door gasket ensures a proper seal when the appliance is in the catalytic mode of operation. If the gaskets are left without regular inspection and / or adjustment, damage to either the steel firebox or combustor will likely result which is not a warrantable occurrence.

The importance of these inspection and adjustment sequences must be stressed to the consumer in order to ensure the longevity of the appliance as well as being able to have extended burn times. All manuals contain instructions regarding window gasket inspection as well as door gasket inspection and adjustment. Bypass door adjustment is also included in the owner's manual, but replacement of this gasket is rarely necessary.

Telltale signs of a leaking gasket can include: reduced burn times, unusually clean areas on certain parts of the door glass, discoloration of the paint surface around the area of the loading door handle, and in some cases premature failure of the catalytic combustor. If any of these conditions are left unattended for an extended period of time, damage to the appliance steel components, such as severe warping and cracking, can occur.

Gaskets are a regular service items and should be carefully monitored over the life of the appliance to ensure proper seal. Special attention should be paid during the first burning season as the new gaskets will seat from initial break in.