



AES Technical Bulletin **Fuel Stirrer, Shaft, & Bushings**

Product models covered: Magnum Countryside, Magnum Baby Countryside, Magnum Winchester, and Magnum 7500 Furnace

Topic: This technical bulletin will be addressing what would cause bushings to go out rather quickly or continuously, what may happen and how repairs are handled so that normal operation can be resumed.

Cause:

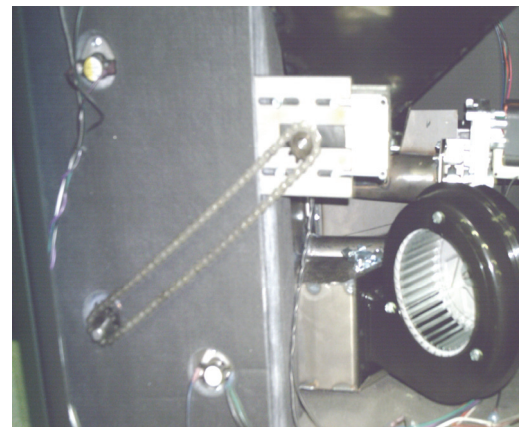
Binding in the firepot.

If the clinker has gotten hard and not been cleaned out, this could cause the fuel stirrer to bind and cause a chain reaction through the shaft and bushings.

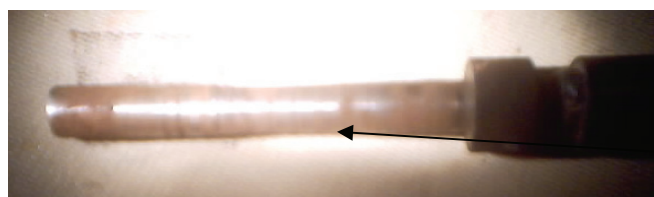


The chain is too tight.

The chain may be too tight or too loose. The fuel stirrer is not turning enough or too much.



Maintenance has to be completed as needed for the unit to run properly. Excessive clinker buildup and/or foreign objects in the auger housing cause the fuel stirrer and shaft to jam and this causes the bushings to wear. Foreign objects such as rocks, bolts, wire, excessive additives, etc. are in the fuel. Usually, when the bushings are bad, they will wear into the shaft and cause a groove. If the shaft is not replaced when the new bushings are put in, the groove will cause the bushing to go out again and again. Sometimes there is a bur on the shaft. If the bur wears on the shaft it will go into the bushings and caused it to seize up. If you have to replace the bushings on the unit, check the drive shaft and fuel stirrer for any damage. The drive shaft should be replaced every time you replace the bushings. The drive shaft does not need to be replaced every time the fuel stirrer is changed. If the chain is too tight on the sprockets this will cause abnormal wear on the bushings, if it's too loose the chain might skip or fall off. A small amount of play has to be on the chain, but never over tighten the chain or allow too much play. Contact your service technician for repairs.



Worn Drive Shaft