LMF MANUFACTURING LTD

Burn Pot Replacement

Models: BM620-9, AH-100, AH-170

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America's Heat
Bio-Mass Heating Systems
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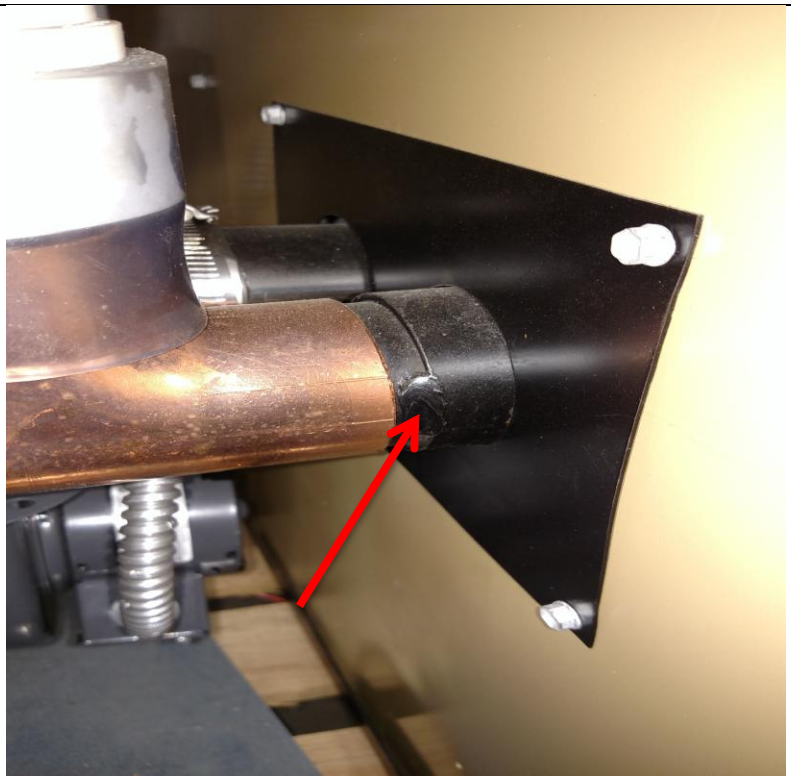
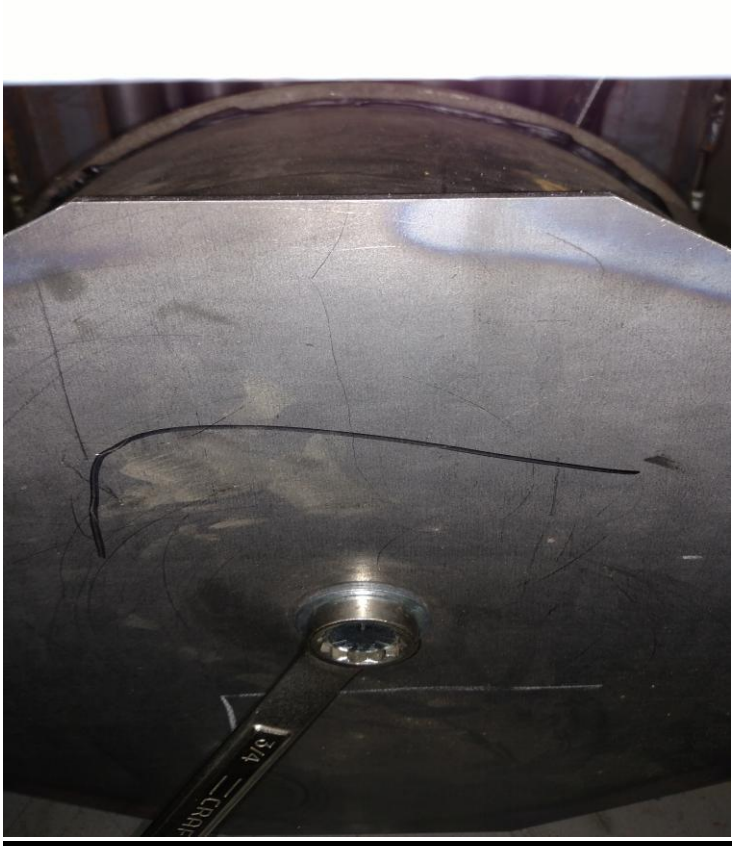
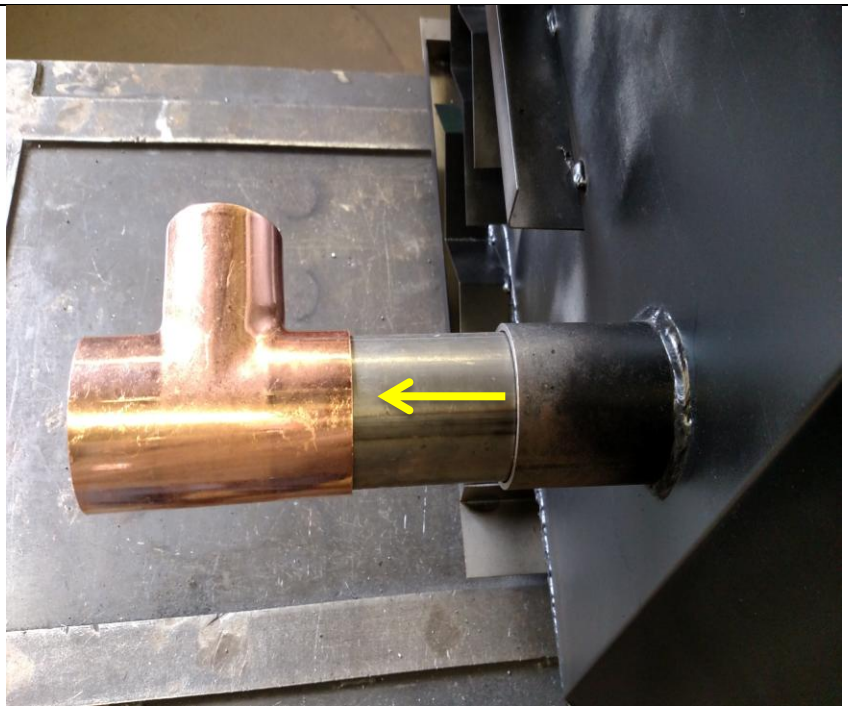
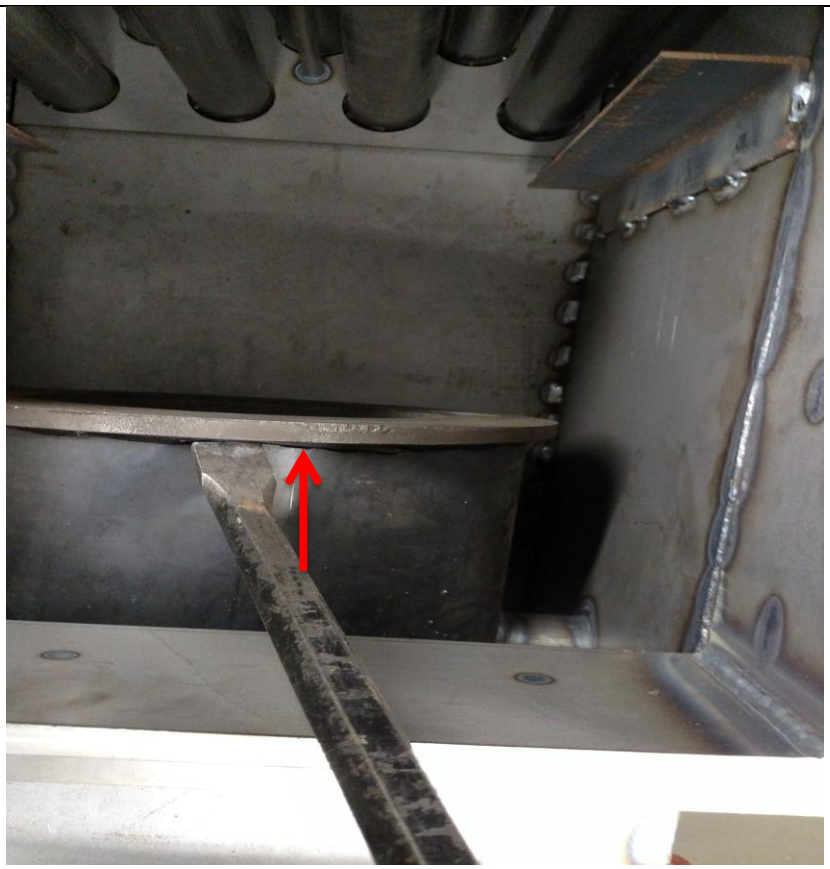
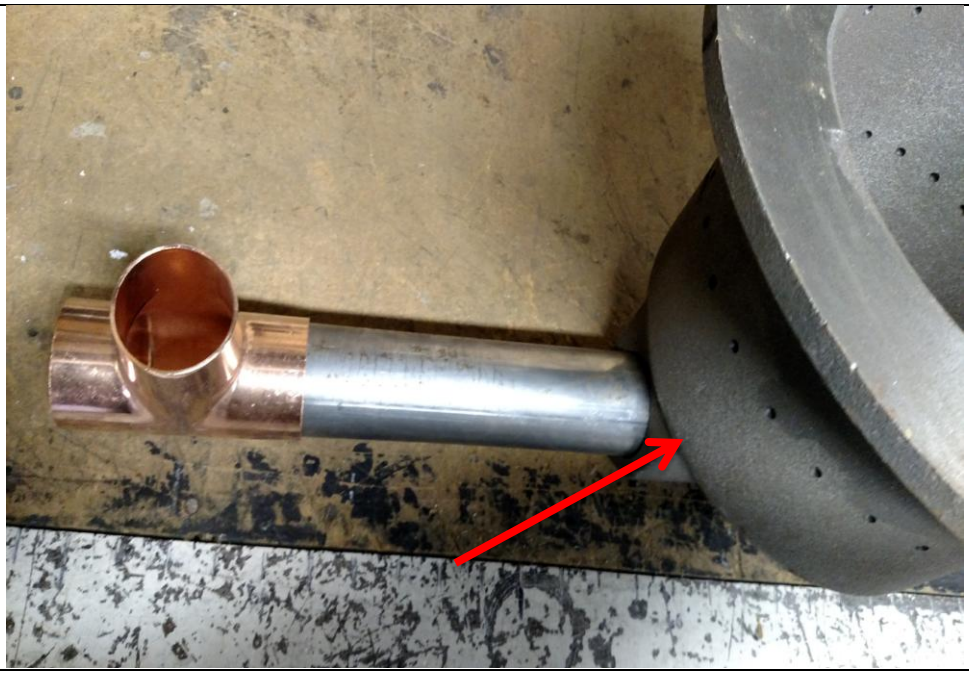
Step 1: Remove the pot auger and PVC air kit from the copper Tee. The copper Tee is epoxied onto the smaller diameter pipe as shown above. It is better to leave the Tee installed if possible. Cut the small weld using a grinder with a cutoff wheel. Remove only the smaller diameter/inner tube. The larger diameter pipe stays intact for this entire process.	

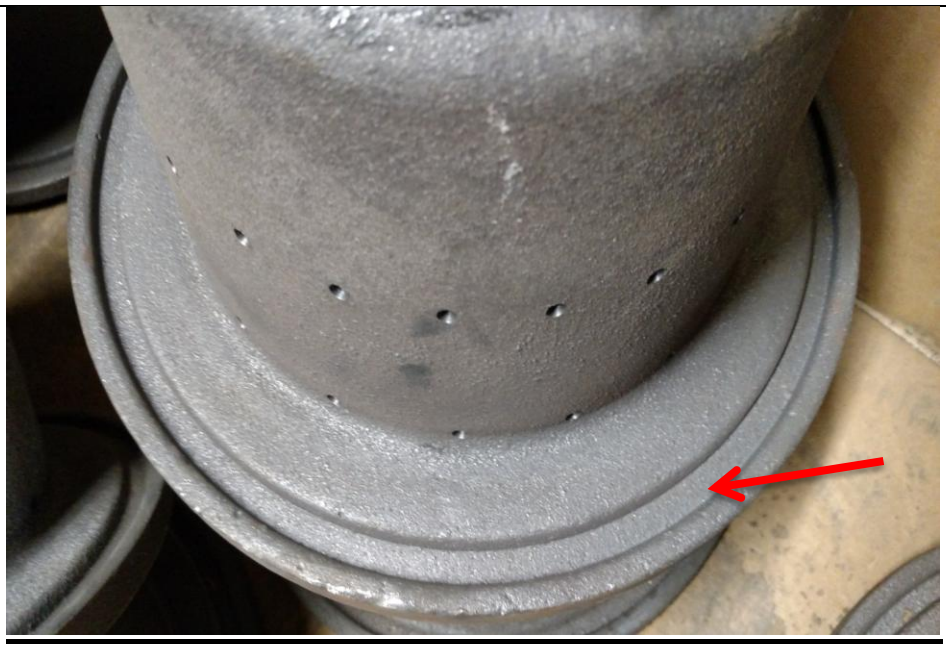
Step 2: Remove the ash pan. Clean as much of the ash out as possible and make sure there are No "HOT" embers that could burn you.	
Step 3: You need a ¾" wrench to remove the bolt. Reach into the ash tray (having small arms and hands really helps with this process) A ratchet or breaker bar with an extension also works. A mirror on a stick is also very helpful if you can't fit your hand	

inside to feel the head of the bolt. Remove the bolt and washer. There is a new bolt and washer supplied with your new Pot.	
Step 4: Since you have removed the weld and the bolt from the bottom, you can now remove the pot auger tube. You will need to pull the pipe out completely (Step 6 requires a test fit). You may need pipe wrench to break it loose, depending on if there has been any corrosion.	

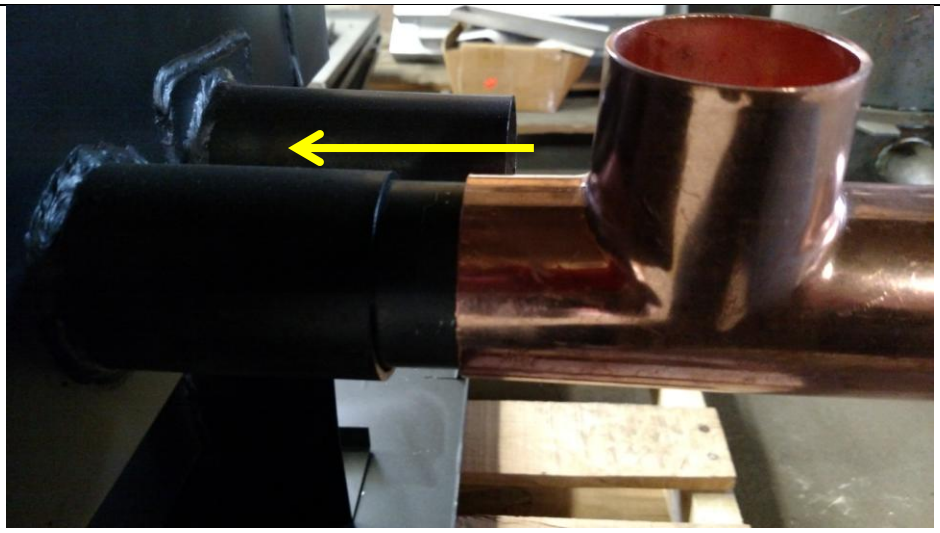
Step 5: Open the front door of the unit. It's recommended to place a piece of wood (pine 2"x4"on the door frame to prevent damage to the frame. Use a pry bar to lift the burn pot out of the steel holder it is sitting. You may need to tap it with a hammer to break it loose from the gasket material. Once it breaks loose, lift it out of the holder and remove any debris from the inside and top edge of the holder.	

Step 6: Make sure your new burn pot is ready for installation and locate the new ½”-13 bolt and washer provided with your new pot.	
Step 7: Test fit the auger tube into the new burn pot. Be sure the tube mates against the inner surface of the pot. Remove the tube after test fitting.	

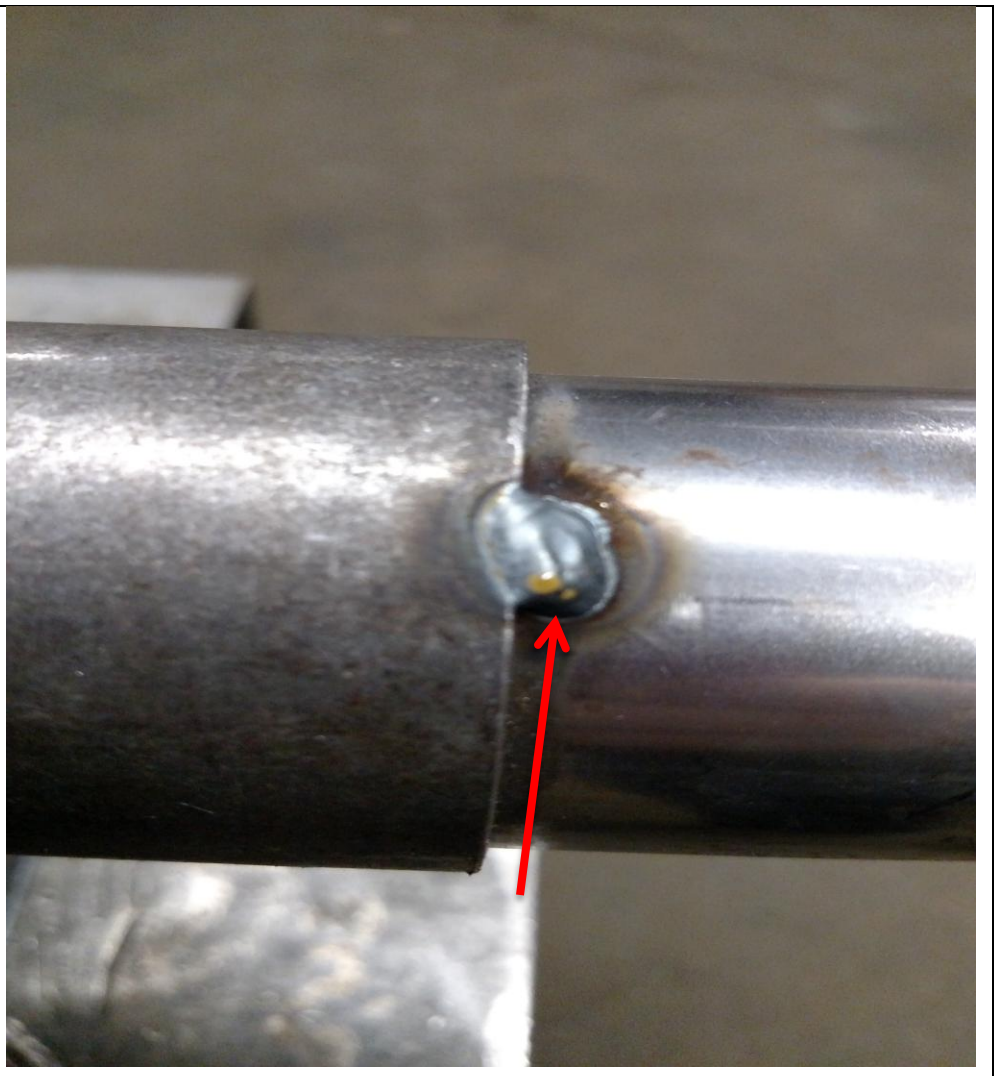
Step 8: Turn your burn pot upside down and notice there is a groove in the casting of the pot. This groove fits onto the edge of the burn pot holding ring. Using a High-Temp liquid stove gasket cement (we recommend Rutland name brand) liberally fill the groove with the gasket cement. The gasket cement can be purchased at most hardware stores or directly from LMF Mfg.



FOLLOW MANUFACTURERS DIRECTIONS FOR APPLICATION LISTED ON TUBE

Step 9: Place the burn pot back into the burn pot holding ring. Be sure to position the auger tube hole towards the auger tube. Make sure the groove in the pot's ring seats over the holding ring. If you applied enough gasket cement, you should be able to see that is squeezes out a little.	
Step 10: Reinstall the auger tube into the pipe it was removed from. Make sure it is completely seated into the burn pot auger tube hole. The pot may move a little inside the holding ring.	

Step 11: Install the 1/2”-13 bolt with washer into the burn pot and tighten. Make sure not to over tighten. Feel inside the pot during or after tightening. The bolt should not protrude more than 1 thread into the pot. If it exceeds 2 threads, you will need to grind off the excess length of the bolt.	

Step 12: With a soft hammer, tap the end of the auger pipe to ensure it is seated properly in the burn pot. Replace the weld that you ground off to remove the auger tube. Be sure to secure the auger tube with weld only. If you try to replace the weld by using a screw, the pot auger will bind against the screw and cause DAMAGE to any or all equipment in the pot auger process.	
Step 13: Return the pot auger to the tube and reinstall the air kit. Your unit is ready to try after the PROPER CURE TIME for the cement has been reached.	