

# England's Stove Works, Inc.

Pellet, Corn, Gas and Wood Stoves

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## Replacing Your Auger Motors and/or Aligning Your Augers

If you have to remove an auger in your unit for any reason (i.e. foreign material is dropped into hopper, and you need to remove your auger to dislodge the material), you will need to align your auger.

**WARNING: STOVE MUST BE OUT (NO FIRE), COOLED DOWN, AND UNPLUGGED BEFORE PROCEEDING.**

BE SURE THE HOPPER IS EMPTY OF PELLETS BEFORE YOU BEGIN.  
ALWAYS FOLLOW ALL CODES!

**1. Aligning your augers (Note: This instruction sheet can also be used for basic Auger Motor replacement. Simply ignore paragraphs 3 and 4.):** The first step is to remove the back access cover from your stove.

**WARNING: ELECTRICAL SHOCK CAN OCCUR IF UNIT IS NOT UNPLUGGED.**

2. After removing the back cover, find the setscrew that holds the auger and auger motor assembly ("assy."), and loosen it with a 5/16<sup>th</sup> open end wrench *or* a 3/8<sup>th</sup> 12-point socket. After loosening the setscrew, slide the auger motor assy. towards the back of the stove to remove it. Set the motor aside, then attempt to turn the auger by hand; if it turns freely without binding, there may be no need to align it.

3. If the auger is binding, the next step is to loosen the four 1/2" bolts that hold the auger and bearing assy. in place. (Note: this applies to stoves with cast feeder pots. If your stove has a welded feeder pot, there will be 7/16" nuts instead of 1/2" bolts.) Next, try to shake loose whatever is preventing the auger from turning freely. This is done by shaking the auger back and forth and trying to turn it. If the auger cannot be freed, take the four bolts and washers off and slide the auger out of the tube. Check the auger and bearing for damage, wear, and function. If damaged or worn, contact Technical Support for replacement parts, or purchase from our web site. If you determine that the assy. is not damaged or worn, insert the assy. back into the tube. If you have felt bearing gasket, it should be replaced each time you align the auger; if you have a nylon (hard) gasket, and there is no visible damage or wear to it, you may re-use it.

4. The next step will be to put the bolts and washers back into the holes for the bearing, leaving them loose. **Turn the auger by hand;** at this time the auger should settle into place by moving side to side as you turn it. Lift the bearing slightly to keep the auger above the bottom of the tube. Tighten the bottom right bolt all the way, then, while still holding the bearing in place, tighten the top left bolt. Then (again) turn the auger, checking the auger for rubbing or binding. If the auger is binding, tap straight in on the shaft of the auger with a hammer — this should free it. (Note: you will hear *some* scraping noise when the augers turn, until you run the unit with pellets in it, since this is a floating auger system.) After the auger is free and turning smoothly, tighten any one of the remaining bolts, then check the auger for smoothness again; if free, tighten the last bolt.

5. Replace the auger motor, taking care to place the setscrew on the flat side of the auger motor shaft. **When the stove is fully assembled,** turn the stove on and allow it to run for 30 minutes (with **no** fire), listening to the auger system for excessive noises or any signs of improper operation. After the auger is determined to be working correctly, put a small amount of pellets (about 5 lbs.) into the hopper, and let the pellets feed into the burn area of the stove. If the stove is feeding properly at this time, it is ready for normal use.

