

TECHNICAL SUPPORT DOCUMENTATION (Procedure)

Alignment of augers in a dual auger ESW unit	Models involved		
	25-PDV, 25-PDVC, 25-PI, 25-CAB80(s), 25-CAB 80		
	Serial Numbers		Pages
	All	to	All
			1 of 2

Important before any troubleshooting attempt:

Stove must be stopped and cooled for 1 hour.

1. Alignment of auger

Steps	Description
1.01 Empty hopper	If the upper auger is the one to be worked on, the hopper must be emptied before the auger is removed.
1.02 Remove rear access cover	Using a 5/16 th wrench or socket remove the 6 to 8 screws from the cover and remove the strain relief for the power cord if applicable.
1.03 Locate the set bolt & loosen	In front of the auger motor there is a collar with a set bolt (this bolt has a 5/16" square head) using a 3/8 12-point socket or boxed end wrench, loosen the set bolt until the motor will slide out of the auger shaft.
1.04 Loosen or remove auger bearing bolts	The bolts are 1/2" hex bolts, if you need to remove the auger to clear a jam, remove the bolts, if just aligning the auger just loosen them so that the bearing may be shifted. (skip to 1.07 in this case)
1.05 Remove auger (if applicable)	After removing the 4 bolts the auger assembly should pull straight out of the back of the auger tube.
1.06 Inspect auger tube and auger	If debris or buildup is present in the auger tube it should be cleaned out immediately, and the tube should be inspected for damage if foreign objects were stuck in the tube. Inspect auger for damage and ensure the gasket and bearing are serviceable.
1.07 Reinstall auger assembly	Slide the auger back into the auger tube, ensure grease fitting is turned to the left or right. start all 4 bolts (install motor shelf on lower bolts) leave bolts loose enough that the bearing can be shifted easily.
1.08 Center the bearing	With one hand, lift the auger bearing to move the auger off the floor of the auger tube and with other hand rotate auger clockwise shifting the bearing back and forth up and down to find the point where the rotation is easiest. Hold the bearing in that place and tighten one of the upper bolts.
1.09 Tightening the auger down	After tightening the first bolt go to the opposite lower bolt and tighten it. Rotate the auger by hand checking for smoothness of rotation, the auger will touch and lightly drag in most cases that's to be expected, what you are looking for is parts of the rotation where the auger is noticeably harder to turn

1.10 Finish tightening bolts	If the auger rotates freely after tightening the first two bolts, tighten one of the other bolts, then check rotation again ensuring that the auger is still smooth to turn, if the auger becomes hard to turn, loosen the previously tightened bolt and tighten the other then check again. In some cases when you have the one spot catching, turn it to that spot, then take a mallet and bump the butt end of the auger, where the motor would be mounted, a couple times then check again, use this technique to get all 4 bolts tightened.
1.11 Reinstall auger motor	Reinstall auger motor ensuring that the flat side of the motor shaft is aligned with the set bolt to ensure there is no slipping, tighten bolt securely.
1.12 Test with no pellets	Once the reinstallation is complete, run the unit without fuel and observe the auger, listen for rubbing noises, essentially ensure proper mechanical function and rotation.
1.13 Reinstall rear cover	Reinstall the rear cover panel and make sure the unit is ready to be put back into service. Verify flue connection to ensure it wasn't bumped loose if the unit was serviced while still in place