

# EMCS AUTOFLOW TIPS

## Operation Tips for the Top Dry EMCS AutoFlow

### Special Wire Terminals

**J5-11 and J5-12 on the IO board are the only 12 volt ground points for use with a tester.**

1. **Special Access Keys** - To get to the **Setup Screens** (Options) push both arrow keys at the same time with the Control Circuit off, or hold down the **Out of Grain** key as you turn on the Control Power Switch.  
Hold down the **Aux 1** key while Powering up to do a **Hard Boot**.  
Hold down the **Modify** key while Powering up to edit the **User Message Line**.
  2. When you change any timer setting you can **force the new time** by pushing the Reset Button Twice.
  3. The **AUX 1 Timer** is used to delay testing for Dry Chamber Low conditions. When the dryer is filled the first time, the timer starts counting down the first time the Dry Chamber Low switch is satisfied. From that point on a Dry Chamber Low signal will not shut down the dryer until the AUX 1 Timer has expired.
  4. When the **Wet Bin is Empty** but the Chamber Low Switch is satisfied the user is warned the Wet Supply is empty but is given the option of drying the remaining grain by pressing the "Enter" switch on the keyboard.
  5. **Delay Settings** – (Remember Fill system 1 is always the one that actually fills the top of the Top Dry)
    - A. **Load Delay** – Used to delay stopping both fill systems when the Chamber High Limit Switch is covered. (This reduces short repeated fills from occurring because grain slides away from the switch)
    - B. **AUX 1 Delay** – Used to delay shutting down fill system 1 so it is allowed to clean out prior to stopping.
    - C. **Unload Delay** – Used to delay stopping both fill systems when the Wet Supply Switch is uncovered. (This allows the Wet Bin to empty completely instead of leaving some wet grain in the bottom each time)
  6. **User Supplied Safety** connection point. Replace jumper between J1-20 and J5-9.
  7. **To make the Fan stop during the dump cycles.**
    - A. Switch the Operation Mode in Setup Options to AB1 or AB2 instead of AF1 or AF2.
    - B. Install a jumper wire on the IO board from J1-19 to J5-9 (Jumps batch chute monitor switch).
    - C. Tell Operator to keep Dry Timer set closer to charts due to no reload after 75% of Dry Time in AutoBatch
  8. To access the **Screen Alignment Screen** jump the C9 Capacitor on the CPU board .  
It's the bottom capacitor near the unused white plug.
  9. To **clear the Shut Down History** push and hold the Reset Button and hit Enter until the option appears.
  10. You can **skip through the opening screens** by repeatedly hitting the Stop Button after powering up.
  11. The **Grain Temperature Sensors** were 14" from the Flat (Not the top of rib) part of the floor.  
These are 10 ½ inches from the top of the rib in the Current Network Autoflows.
  12. **Temperature Sensor Testing**  
You can find charts with the Resistance readings at various Temperatures in the following manuals located in the **Resource 2004 CD** in the "**Manuals and Other Resources**" Folder in the various Product Tips folders.  
EMCS & Competitor - Trouble Shooting (pneg-630a) 2004.pdf **Page 55** (Portable Dryers|Trouble Shooting –Operating Tips)  
Pneg-377 Fan & Htr Service Manual Feb 2000.pdf **Page 50** (Fans and Heaters | Trouble Shooting Guide)  
The Network Top Dry's use the Thermister type sensors, the bolt style for the Plenum and for the Grain Temperature.  
You have to disconnect the wires before testing. Check the charts listed above for readings at other temperatures.
  13. If you set the number of Fill augers incorrectly you will experience chattering of the Fill System Contactors.
- Setup Screens** – Reached by pushing both Arrow Keys with the Control Circuit Off.
- A. **High Flame Delay** – European Option that starts the burner on Low Flame and delays High Flame the number of seconds you set the option.
  - B. **Wet Bin Test** – By setting this option to NO the Wet Bin Rotary Switch will be ignored.
  - C. **Chamber Low Limit Test** - Same as Wet Bin set to NO to ignore the Low Limit Rotary Switch.
  - D. **Start on Low** - Setting Yes Starts the Drying process as soon as the Low Limit Switch is covered.