The new version of software for CN8100 (v2.0) has the autotune feature built in. The feature of autotuning takes effect ONLY at start-up (when power is applied to the CN8100). During the start-up sequence the state of menu item tJu is checked and the autotune feature is started accordingly.

The options of menu item tJu are as follows:

**D.S.** - Disabled - autotuning is NOT started - device goes directly to PID mode.

**OrE.** - do autotuning once - after start-up CN8100 completes autotuning, it sets tJu item in menu to D.S. and passes control to PID. (if autotuning is successful)

**E.iE.** - do autotuning every time CN8100 starts. CN8100 autotunes every time it starts and passes control to PID mode. The menu item tJu is NOT affected. (if autotuning is successful).

In case the autotuning procedure is NOT successful the CN8100 stops, displays the following error codes and menu item tJu is set to D.S.

There are 4 error codes possible:

- **AE5** - autotune cannot start because the controller does not have the needed output. i.e. cannot do a cool tune if the controller does not have a cool output.

- **AE6** - Cannot start autotune because PV (present temperature) and SP (setpoint) are too close. (100°C separation recommended).

- **AE7** - autotune aborted due to timeout.

- **AE8** - autotune failed.

CN8100 must be restarted.