

TECHNICAL SERVICE BULLETIN

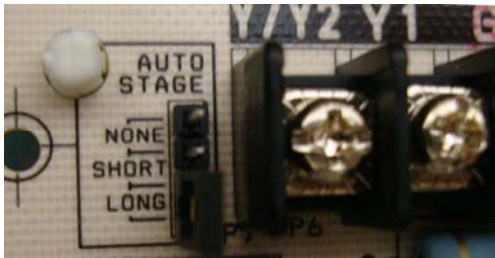
TB08-164R

TO: RESIDENTIAL AND MAYTAG DISTRIBUTORS
FROM: TECHNICAL SERVICE DEPARTMENT
DATE: DECEMBER 15, 2008
RE: G7 AUTOSTAGING FEATURE

The autostaging feature on all G7 two-stage furnaces makes it possible to use a single stage thermostat and still receive some benefits of a two stage furnace.

If you try to jump W1 to W2 the furnace will fire for 12 minutes in low fire and then stage up in high fire.

The auto staging options are selected using the auto stage jumper located near the thermostat screw terminal block. (Insert picture of jumper).



For further explanation see attached page.

If you have any questions please call Nordyne Technical Service Department at 1-800-422-4328 ext. 2.

NORDYNE
Technical Service Department

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GRANDAIRE

Detailed Description of G7 Autostaging Feature on 2-stage Models

The Autostaging feature included on all G7 2-stage furnaces makes it possible to use a single stage thermostat and still receive some of the benefits of 2-stage furnace operation.

Autostaging options are selected using the Autostage jumper located near the thermostat screw terminal block. On the circuit board, Autostage jumper pins are electrically connected on the circuit board to R, W1, and W2 such that:

- 1) When the Autostage jumper is in the “SHORT” position, R is connected to W2. Setting the Autostage jumper in the “SHORT” position is the same as jumping R to W2. This connection signals the control to utilize an 8 minute delay between low fire and high fire when a call for heat is supplied via 24V signal to W1.
- 2) When the Autostage jumper is in the “LONG” position, W1 and W2 are connected. Setting the Autostage jumper in the “LONG” position is the same as jumpering W1 and W2 together. The control board knows that Autostaging (at 12 minutes, the “LONG” setting) is active when 24vac inputs from both W1 and W2 are received at the same time.

Please note that on certain thermostats, even without the Autostage jumper in the “LONG” position, W1 and W2 may be energized at exactly the same time when a recovery from a set-back begins, the user adjusts the set point, or the system is powered on. If W1 and W2 are energized at exactly the same time for any reason, the control will operate in the Autostage “LONG” (12 minute) mode. If the Autostage jumper is in the “NONE” position and Autostaging is activated unexpectedly for any of the reasons listed, it will return to normal, staged operation after the completion of the heating cycle.

Please also note that there is no way to force a 2-stage G7 to act like a single stage furnace and bring on full capacity immediately with every call for heat. If single-stage operation is required and an Autostage delay of 8 or 12 minutes between 1st and 2nd stage heat is not acceptable, the use of a G7 single-stage furnace is recommended.