

**Operator: Save these instructions for future use!**

**FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

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**DESCRIPTION**

The 50T35-743 Integrated Furnace Control is a replacement for Goodman B18099-06, B18099-08, B18099-10 and B18099-13 HSI modules

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**PRECAUTIONS**

Installation should be done by a qualified heating and air conditioning contractor or licensed electrician.

If in doubt about whether your wiring is millivolt, line, or low voltage, have it inspected by a qualified heating and air conditioning contractor or licensed electrician.

Do not exceed the specification ratings.

All wiring must conform to local and national electrical codes and ordinances.

This control is a precision instrument, and should be handled carefully. Rough handling or distorting components could cause the control to malfunction.

Following installation or replacement, follow manufacturer's recommended installation/service instructions to ensure proper operation.

**CAUTION**

**Do not short out terminals on gas valve or primary control. Short or incorrect wiring may damage the thermostat.**

 **WARNING**

**Failure to comply with the following warnings could result in personal injury or property damage.**

**FIRE HAZARD**

- Do not exceed the specified voltage.
- Replace existing control with exact model and dash number.
- Protect the control from direct contact with water (dripping, spraying, rain, etc.).
- If the control has been in direct contact with water, replace the control.
- Label all wires before disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Route and secure wiring away from flame.

**SHOCK HAZARD**

- Disconnect electric power before servicing .
- Ensure proper earth grounding of appliance.
- Ensure proper connection of line neutral and line hot wires.

**EXPLOSION HAZARD**

- Shut off main gas to appliance until installation is complete.

# INSTALLATION

Remove both access panels.

For GMP & GMPV series units, cut the white jumper wire between pins 1 & 4 of the 9 pin connector.

For GMPN & GMN series units, DO NOT cut the white jumper wire.

Remove the edgcard connector and other wires from the existing module. Discard the thermostat wires removed from the board (R, W & G).

Remove the existing HSI module. Care should be exercised as not to damage the nylon standoffs.

Install the 50T35-743 module.

Reconnect the edgcard connector making sure of good contact.

Push the 9 pin connector into the HSI module. It can go in only one way. DO NOT force.

Reconnect the supplied thermostat wires.

Remove the red wire from the 24 volt side of the secondary side of the transformer and discard.

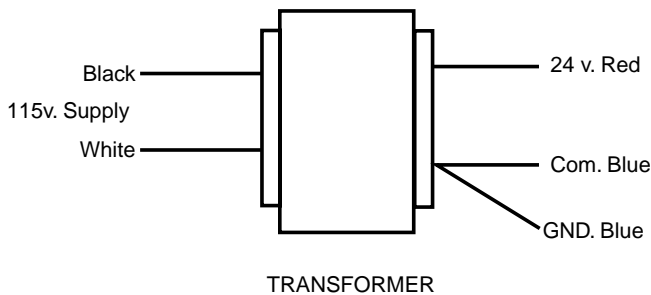
Remove the blue ground wire from the transformer. DO NOT discard.

Remove the blue wire from the transformer and discard.

Place the red wire from the 9 pin connector on to "24 volt" of the secondary side of the transformer.

Place the blue wire from the 9 pin connector on to "Common" terminal of the secondary side of the transformer. This wire has a piggy back terminal.

Place the blue ground wire, which was previously removed, on to the "Common" terminal of the transformer.



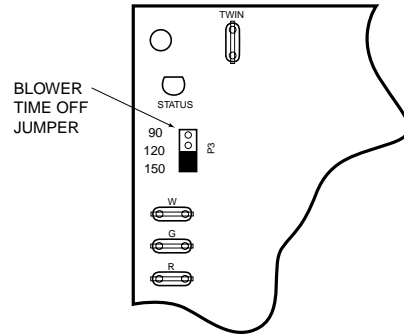
Replace the access panels.

Restore gas and electrical power to the furnace.

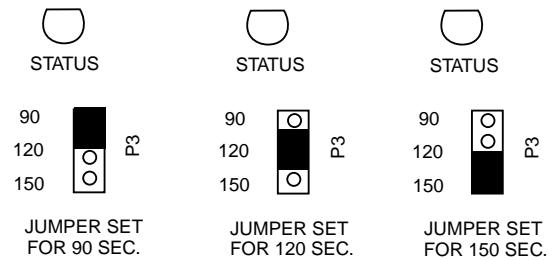
Verify the sequence of operation as noted in the Installation & Operating Instructions.

## SELECTING THE BLOWER OFF DELAY

In the heating mode, the blower off delay can be selected to obtain a 90, 120 or 150 seconds period. This can be accomplished by changing the position of a plastic jumper located on the ignition control. See the drawing below for the location of this jumper.



The control is factory set to give a (150) second blower off delay. See drawing below for the jumper position for all available settings:



### Notes:

- If the jumper is removed, the control will default to a (150) second blower off delay in the heating mode.
- The blower on time in the heating mode is (30) seconds and is non-adjustable.
- The blower on time in the cooling mode is (7) seconds and is non-adjustable.
- The blower off delay in the cooling mode is (60) seconds and is non-adjustable.
- Caution is to be exercised not to bend the metal pins when changing the time delay from the factory setting.

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