

REPLACEMENT of B18099-06, B18099-08 and B18099-10 HSI Module with an ICM280 Board

NOTE: DISCONNECT ALL ELECTRICAL POWER AND SHUT OFF GAS TO THE FURNACE BEFORE PROCEEDING

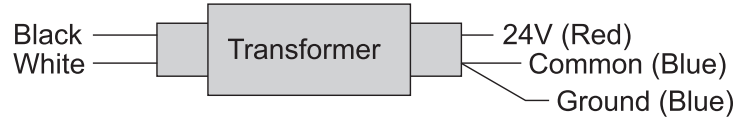
CAUTION! Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

- Remove both access panels.
- Cut the white jumper wire between pins 1 and 4 of the 9-pin connector for GMP and GMPV series units
- Do not cut the white jumper wire for GMPN and GMN series units.
- Remove the edgcard connector and other wires from the existing module and discard the thermostat wires removed from the board (R, W, and G).
- Remove existing HSI module. **Note: Do not damage the nylon standoffs.**
- Install the ICM280.
- Reconnect the edgcard connector ensuring good contact.
- Push the 9-pin connector into the ICM280. **Note: It can only go one way. Do not force it.**
- Reconnect the supplied thermostat wires.
- Remove the red wire from the 24-volt side of the transformer's secondary side. Discard it.
- Remove the blue ground wire from the transformer, but do not discard it.
- Remove the blue wire from the transformer. Discard it.
- Place the red wire from the 9-pin connector onto 24-volt (hot) of the secondary side of the transformer.
- Place the blue wire from the 9-pin connector onto 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, onto the common terminal of the transformer.
- Replace both access panel.
- Restore gas and electrical power to the furnace.
- Verify the sequence of operation.

REPLACEMENT of B18099-13 HSI Module with an ICM280 Board

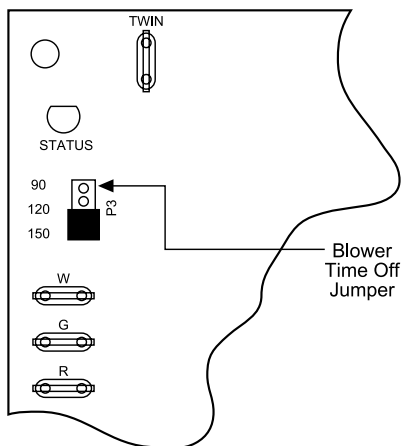
NOTE: For GMT, GDT, GMTH and GMNT units, disregard the 9-pin connector supplied with the ICM280.

- Remove both access panels.
- Locate the red, white and green thermostat wires (pigtailes) where they pass through the side of the furnace cabinet. Remove and save the wire nuts and then disconnect the pigtailes from the main thermostat wire assembly.
- Disconnect all wires from the HSI module
- Discard the thermostat wires (pigtailes) removed from the board (terminals R, W, and G).
- Remove the existing HSI module from the control panel. Do not damage the nylon standoffs.
- Carefully remove the standoffs and insert them into the same locations on the ICM280.
- Install the ICM280.
- Reconnect the 9-pin connector into the ICM280. **Note: It can only go one way. Do not force it.**
- Route the red, white and green thermostat wires (pigtailes) supplied with the ICM280 through the side of the cabinet and then, using the wire nuts saved earlier, reconnect them to the main thermostat wire.
- Reconnect all other wires to the controls module being careful to match the wire labels to the thermostat connections.



Selecting the Blower Off Delay

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



The control is factory set to give a 150 second blower off delay.

Timing Chart

	ON Delay	OFF Delay
Heat	30 Seconds	90 Seconds 120 Seconds 150 Seconds (Default)
Cool	7 Seconds	60 Seconds

NOTES

- If the jumper is removed, the control will default to a 150 second blower off delay in the heating mode
- **CAUTION** is to be exercised not to bend the metal pins when changing the time delay from the factory settings

Status LEDs

LED ON: No fault
OFF: Gas valve fault detected

# of LED Flashes	Represents
1	Ignition failure (after 3 tries and start of soft lockout)
2	Pressure switch stuck closed
3	Pressure switch failed to close
4	Limit switch failed open
5	Flame present with gas valve output off
6	Brownout voltage
7	Fault twinning
Rapid Flashing	Wrong polarity of 120 VAC and Neutral