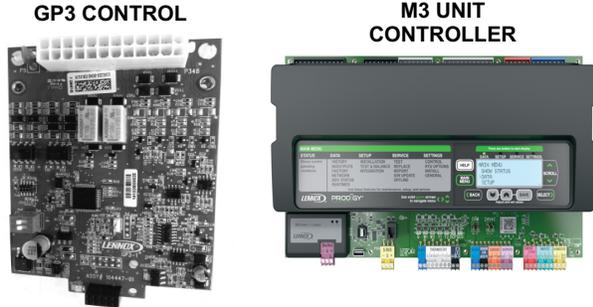


GP3 Control Field Installation Kit

INSTALLATION INSTRUCTIONS FOR GP3 CONTROL FIELD INSTALLATION KIT (13J78) FOR USE WITH PRODIGY 2.0 M3 UNIT CONTROLLER OR HIGHER



Shipping and Packing List

Package 1 of 1 contains:

- 1- GP3 control
- 1- GP3 connector
- 1- Harness
- 1- Wire tie
- 2- 6-32 x 1" MS head screws (located in bag assembly)
- 1- Wiring diagram

Installation

⚠ CAUTION

ELECTROSTATIC DISCHARGE (ESD) Precautions and Procedures

Electrostatic discharge can affect electronic components. Take precautions during unit installation and service to protect the unit's electronic controls. Precautions will help to avoid control exposure to electrostatic discharge by putting the unit, the control and the technician at the same electrostatic potential. Neutralize electrostatic charge by touching hand and all tools on an unpainted unit surface before performing any service procedure

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier

1. Disconnect all power to unit.
2. Remove the M3 unit controller cover - Insert a flat screwdriver into the loops located on the side edges of the cover and gently pry tabs out to release the cover from the M3 unit controller.

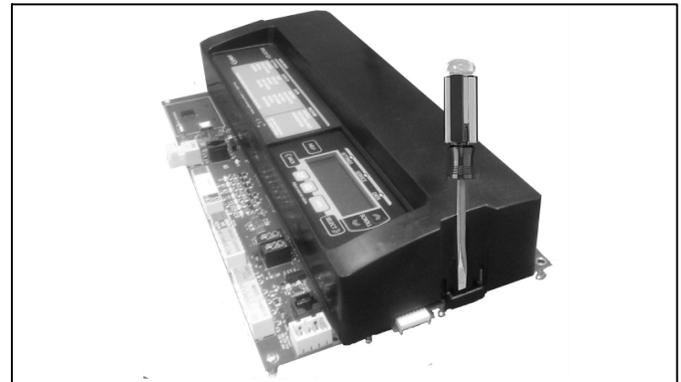


Figure 1. Removing M3 Unit Controller Cover

⚠ WARNING



Electric Shock Hazard. Can cause injury or death. Unit must be grounded in accordance with national and local codes.

Line voltage is present at all components when unit is not in operation on units with single-pole contactors. Disconnect all remote electric power supplies before opening access panel. Unit may have multiple power supplies.

Installation

The GP3 Control Field Installation Kit is used on rooftop units compatible with Prodigy 2.0 M3 unit controller or higher. The kit is used to provide additional analog and digital input/outputs for field installed options.

3. Carefully remove the GP3 control from the protective packaging.
4. Install new GP3 control on the M3 unit controller mating connector P7 located to the left of M3 unit controller display (see figure3, detail B).

NOTE: If there is already a GP3 control installed on the M3 unit controller, then connect the new control on top of the existing control.

5. Ensure nylon standoffs located on the new GP3 control is connected to the M3 unit controller.
6. Secure the new GP3 control to the M3 unit controller using the provided screws.

NOTE: Pins must be properly aligned with receptacle.

IMPORTANT

Misaligned pins could damage the M3 unit controller and the GP3 control.

7. Set the DIP switch settings on the new GP3 control to position 4 (see figure 3, detail C).
 8. Locate the provided GP3 control 24-position connector from bag assembly along with the 12-wire harness.
- NOTE:** Check the wiring diagram for option that needs to be supported by the GP3 control.
9. Make field wiring connections to 24-pin connector as shown in wiring diagram provided with optional component (also see figure 3, detail A).

10. Connect the side of the harness with Molex® terminals to the pins on the 24-pin connector that are needed per option wiring diagram.
 11. Connect wire harness to 24-pin connector at GP3 control. Discard the wires on harness that were not connected to GP3 control 24-position connector..
 12. Bundle extra wiring length with wire tie provided.
 13. Restore power to unit and refer to M3 unit controller Installation Instruction provided with unit for start-up.
 14. Confirm that DIP switch on GP3 control is set to position 4 as illustrated in figure 3, detail C.
 15. Set Parameters to application specifications. Applicable parameters series begin with 330. See *Prodigy 2.0® (M3 unit controller) Application Guide (Advanced Features)* for further details. The reference guide is available at <http://www.lennoxcommercial.com/technical-documents/>
- Select **Application and Design Guidelines** to access the *Prodigy 2.0® (M3 unit controller) Application Guide (Advanced Features)*.
16. Reinstall the M3 unit controller cover (see figure 2)

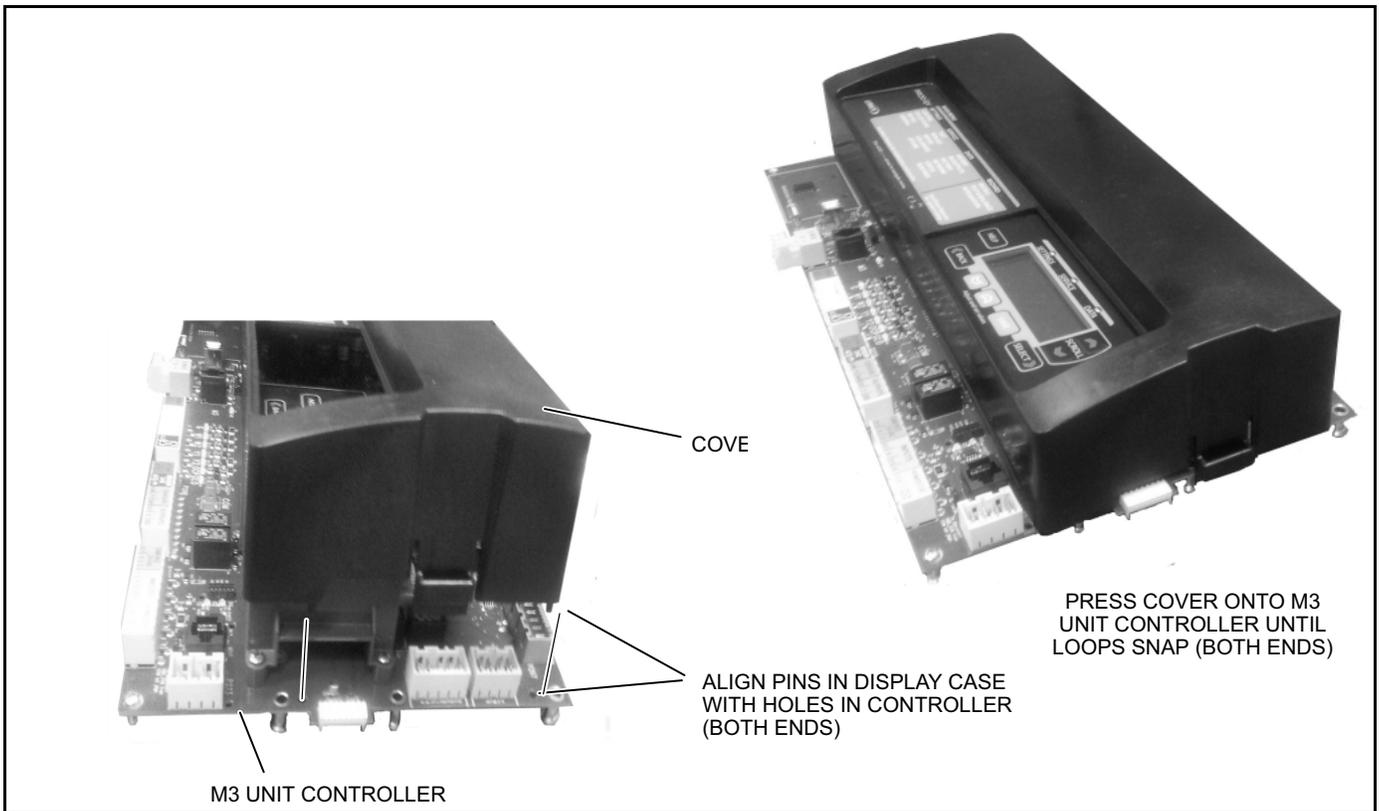
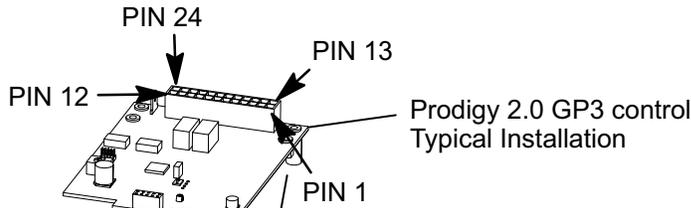
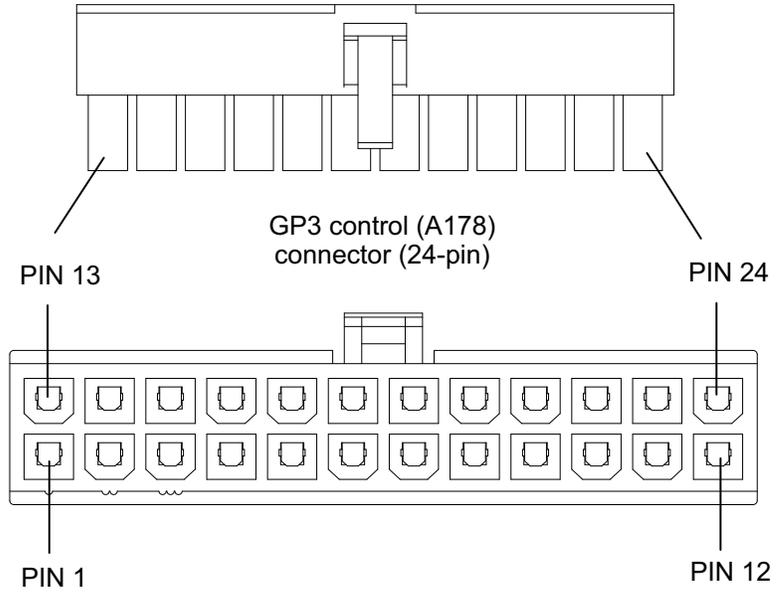


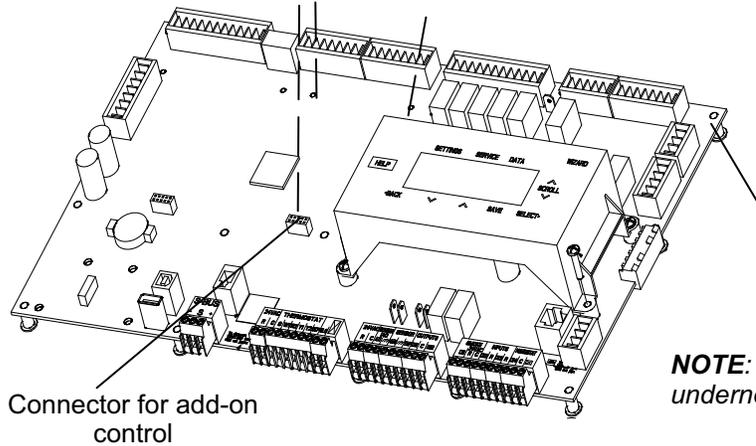
Figure 2. Installing M3 Unit Controller Cover

DETAIL A

Pin	Function
1	5VDC out (10mA max)
2	AO4/PWM4 (0-10VDC)
3	AO2/PWM2 (0-10VDC)
4	AO3/PWM3 (0-10VDC)
5	AO1/PWM1 (0-10VDC)
6	Relay 1 - NO
7	Relay 1 - COM
8	Relay 2 - COM
9	Relay 2 - NO
10	DI3
11	DI4
12	DI2
13	Thermistor 1 - 10K@25C
14	AI1 (0-10VDC)
15	AI2 (0-10VDC)
16	Thermistor 2 - 10K@25C
17	AI3 (0-10VDC)
18	Ground
19	Ground
20	Ground
21	Ground
22	COM
23	COM
24	DI1

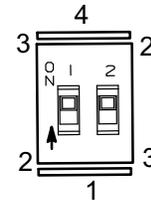


DETAIL B



DETAIL C

GP3 control (A178)
DIP switches



Prodigy 2.0 M3 unit controller (without cover)

NOTE: GP3 control (A178) could be located underneath existing add-on control.

Figure 3. GP3 Control Details