

PRESTIGE TriMax Control and/or Display Module Replacement



Kit Part Number:

- PTRKIT205 - TriMax Control Module (PT 60/110, 175, PTE 110)
- PTRKIT206 - TriMax Control Module (PT250/399)
- PTRKIT207 - TriMax Display Module

Parts List (Fig.1)

- 1 - Control Module (PTRKIT205) - Item 1
- 2 - Display Module (PTRKIT207) - Item 2

Recommended Tools:

- Phillips Screwdriver

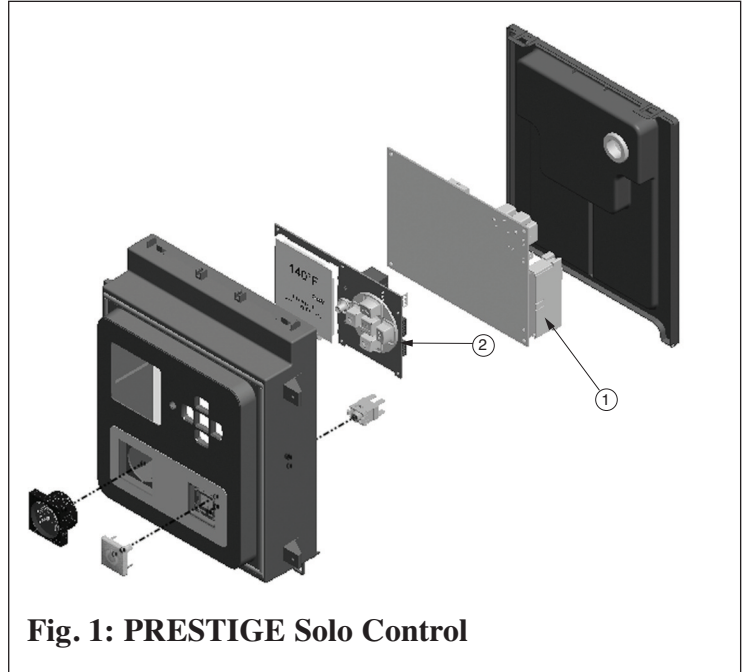


Fig. 1: PRESTIGE Solo Control

WARNING

Indicates a potentially hazardous situation which, if ignored, can result in serious injury or substantial property damage.

NOTICE

Indicates special instructions on installation, operation or maintenance, which are important to equipment but not related to personal injury hazards.

WARNING

For your safety, turn off electrical power supply at service panel before proceeding to avoid possible electrical shock hazard. Failure to do so can cause severe personal injury or death.

WARNING

Failure to follow instructions below can result in severe personal injury or damage if ignored.

- Instructions are for a qualified installer/service technician.
- Read all instructions before proceeding.
- Follow instructions in proper order.

WARNING

For your safety, the boiler may be extremely hot. Ensure the boiler has properly cooled prior to servicing. Failure to do so can cause severe personal injury.

NOTICE

These part kits PTRKIT205, PTRKIT206 and PTRKIT207 can only be used on Prestige Boilers with serial numbers beginning with PT.

PRESTIGE TriMax Control and/or Display Module Replacement

Removal of the Prestige TriMax Control Module and Display Module

NOTICE

Prior to replacing the control module and/or display module, it is important to access and document the boiler's settings. This will ensure any settings revised from factory defaults are transferred to the new module(s). Use Table 1 to record the existing settings. Do not revise any settings when recording settings.

1. To access the parameter screen, press the round installer button as shown in Fig. 2.

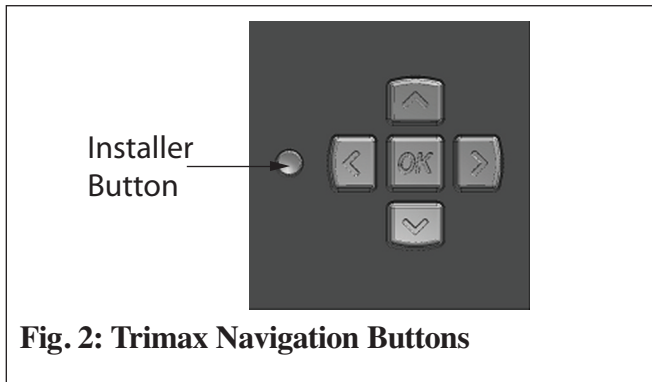
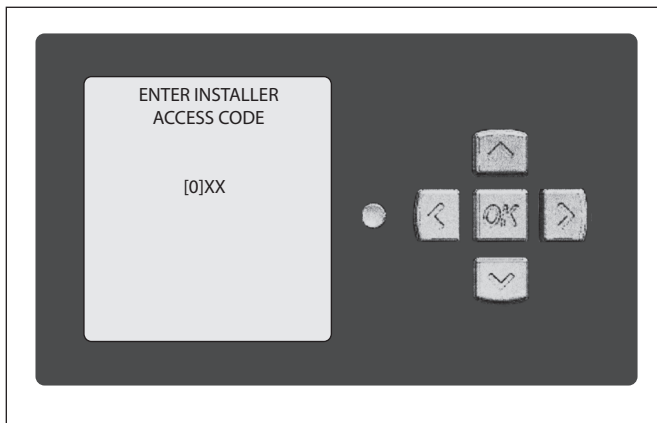

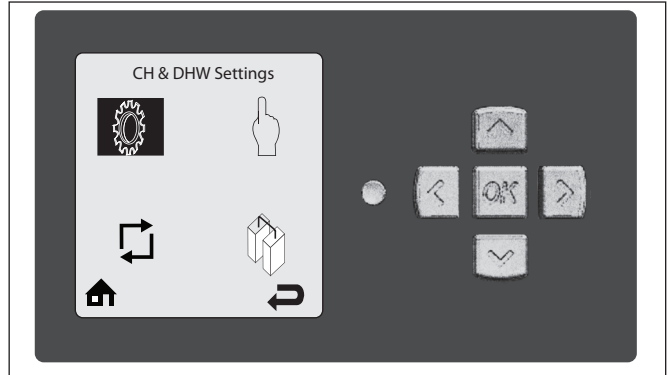



Fig. 2: Trimax Navigation Buttons

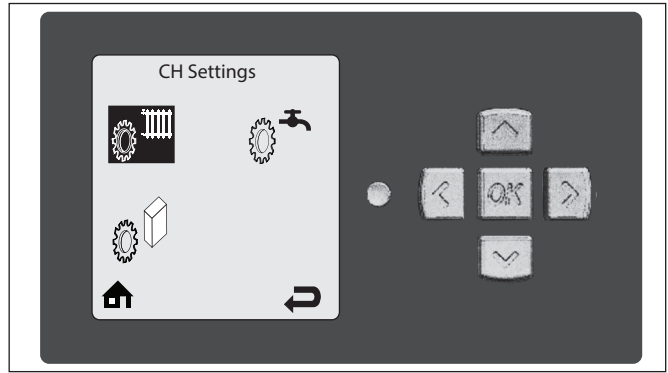
2. Enter the installer access code "054" by using the **LEFT** and **RIGHT** buttons to select a digit and the **UP** and **DOWN** buttons to change the digit. Press the **OK** button to enter the access code.



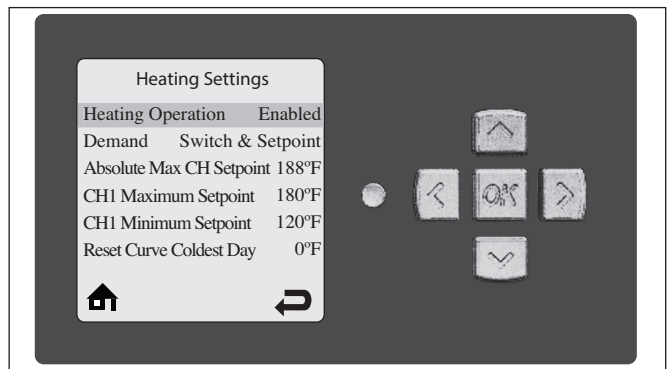
3. Press the **OK** button while the CH & DHW Settings icon  is highlighted.




4. Press the **OK** button while the CH Settings icon  is highlighted.




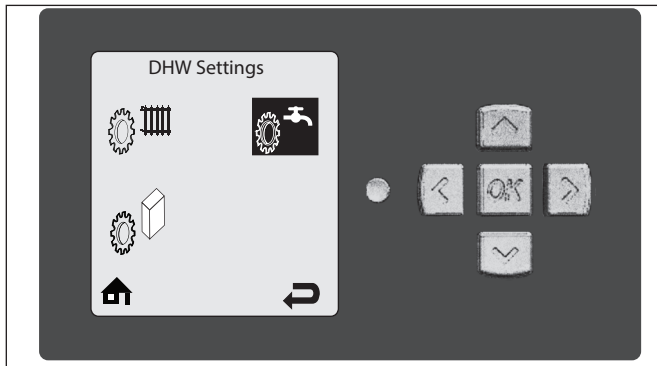
5. Press the **UP** and **DOWN** buttons to scroll thru the various settings.




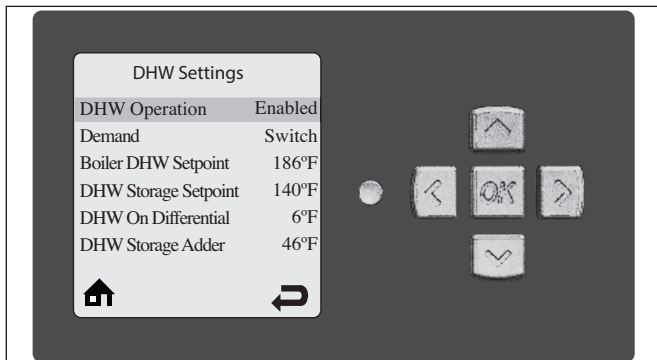
6. Record all CH Settings in Table 1. Once completed, press the **RIGHT** button to highlight the Previous Screen icon , then press the **OK** button.



PRESTIGE TriMax Control and/or Display Module Replacement

7. Press the **RIGHT** button to highlight the DHW Settings icon  then press the **OK** button.






8. Press the **UP** and **DOWN** buttons to scroll thru the various settings and record all DHW Settings in Table 1. Once completed, press the **RIGHT** button to highlight the Previous Screen icon , then press the **OK** button.



9. Press the **DOWN** button to highlight the Boiler Settings icon if present icon , then press the **OK** button.
10. Press the **UP** and **DOWN** buttons to scroll thru the various settings and record all Boiler Settings in Table 1. Once completed, press the **RIGHT** button to highlight the Previous Screen icon , then press the **OK** button.

NOTICE

Perform the following steps if the Prestige is part of a Cascade System or the System Temperature Sensor is being used on a single Prestige.

11. Press the **RIGHT** then **DOWN** buttons to highlight the Previous Screen icon , then press the **OK** button.
12. Press the **RIGHT** then **DOWN** buttons to highlight the Cascade icon , then press the **OK** button.
13. Press the **RIGHT** button to highlight the Cascade Settings icon , then press the **OK** button.
14. Press the **UP** and **DOWN** buttons to scroll thru the various settings, and record all Cascade Settings in Table 1.

Removal of Trimax Control Module.

- Turn the electrical power "OFF".
- Remove the front jacket panel by removing the thumb screw along the upper edge of the unit. Lift it up and tilt back slightly to remove the front panel.
- Slide left and right tabs of control panel inward and lower control panel. See Fig. 3.
- Pull the retaining tabs on top of the rear cover to remove the rear control box cover. See Fig. 4.
- Disconnect the ignition cable by grasping the ignition terminal and pulling firmly upwards from the back of the control module. Use care not to damage the ignition cable or ignition terminal.

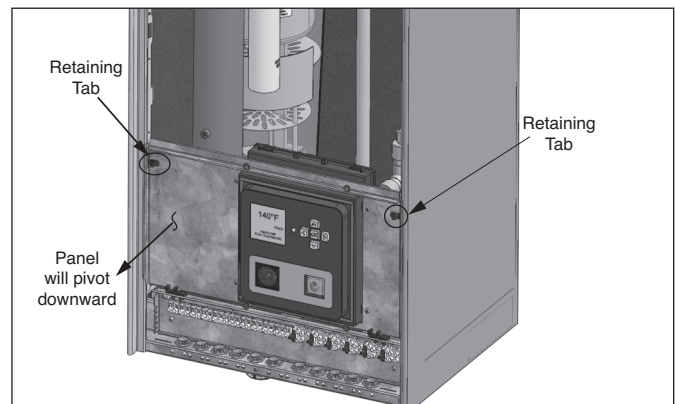
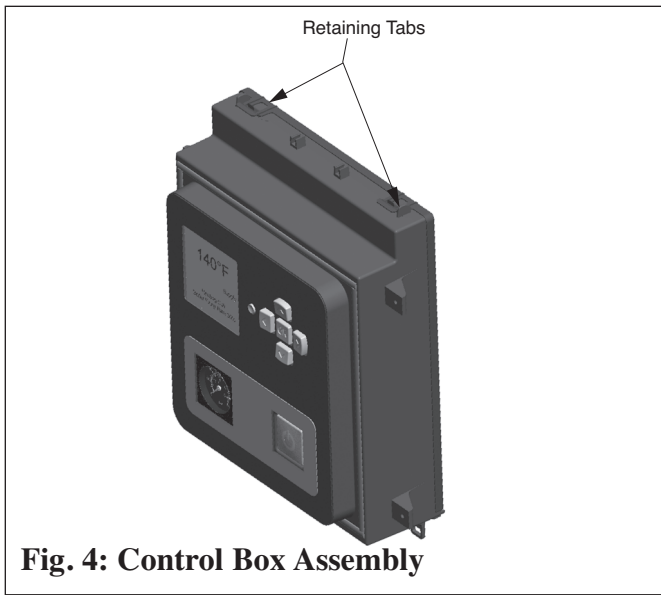
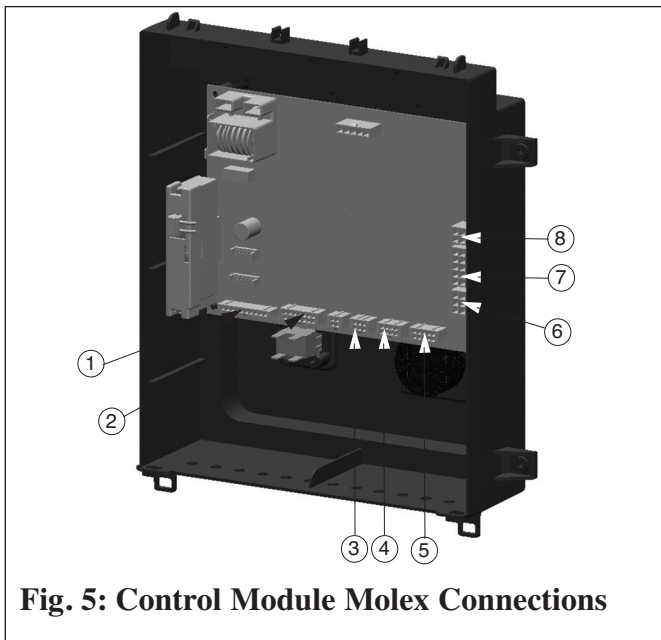


Fig. 3: Opening & Lowering Control Panel

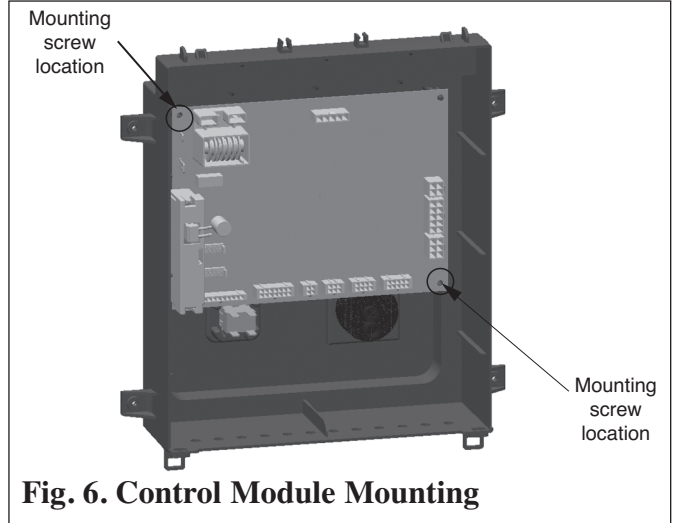
PRESTIGE TriMax Control and/or Display Module Replacement



6. Remove all (8) Molex wiring connectors from the Control Module. Support Trimax Control Module with one hand while removing individual Molex connectors. Press tabs on Molex plugs for quick release. See Fig. 5.



7. Remove the 2 screws securing the Control Module into the enclosure and remove the Control Module. Do not discard the Trimax Control Module. See Fig. 6.



NOTICE

Go to step 15 if one only wants to remove the Trimax Control Module. Proceed to step 8 if the Trimax Display Module must also be removed.

Removal of Trimax Display Module

NOTICE

The Trimax Control Module must always be removed prior to removing the Trimax Display Module.

8. Remove Molex connectors 1 thru 3 from the Display Module as shown in Fig. 7.
9. Remove 6 screws securing the Trimax Display Module to the enclosure.
10. Remove Molex connectors 4 thru 6 from the display module as shown in Fig. 7.
11. Carefully remove the Trimax Display Module.

Installation of Trimax Display Module

12. Reconnect Molex connectors 4 thru 6 to the new display module as shown in Fig. 7. Connectors are designed to fit only into its respective mating connector.

PRESTIGE TriMax Control and/or Display Module Replacement

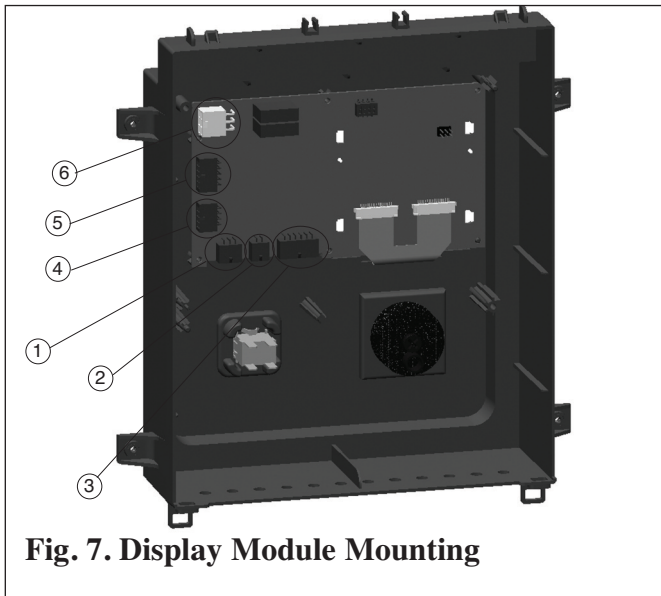


Fig. 7. Display Module Mounting

13. Mount the new Trimax Display Module into the enclosure using existing screws. Tighten all (6) screws properly to secure the Display Module.
14. Reconnect remaining Molex connectors in the proper positions. Connectors are designed to fit only into its respective mating connector.

Installation of Trimax Control Module

15. Mount the Trimax Control Module into the enclosure by positioning the board onto the protruding pins.
16. Use existing mounting screws to secure the Control Module.
17. Reconnect the 8 Molex connectors to proper positions as shown in Fig. 5. Each connector is designed to fit only in its respective mating connector.
18. Reconnect ignition cable onto the Control Module ignition connector.
19. Place the rear cover in place and lock in the top retaining tabs.

20. Tilt control panel assembly upward and lock sliding tabs in place.
21. Remount the front jacket panel to the boiler.
22. Turn power to the unit “ON” and return the boiler to service.
23. Return to page 2 and enter settings recorded in Table 1 back into the Trimax control.

NOTICE

Prestige Excellence units require setting Prestige Model to Excellence and DHW Demand Type to Sensor.

NOTICE

If the Prestige is in a Cascade System, Cascade Autodetection must be performed after replacing a Control or Display Module.

PRESTIGE TriMax Control and/or Display Module Replacement

Table 1: TriMax Settings

<u>HEATING SETTING</u>	<u>FACTORY DEFAULT</u>	<u>MINIMUM SETTING</u>	<u>MAXIMUM SETTING</u>	<u>EXISTING SETTING</u>
Heating Operation	Enabled			
Demand	Switch & Outdoor Reset			
Absolute Max CH Setpoint	188°F [87°C]	68°F [20°C]	188°F [87°C]	
CH1 Maximum Setpoint	180°F [82°C]	68°F [20°C]	188°F [87°C]	
CH1 Minimum Setpoint	120°F [49°C]	60°F [15°C]	188°F [87°C]	
Reset Curve Coldest Day	0°F [-18°C]	-30°F [-34°C]	50°F [10°C]	
Reset Curve Warmest Day	64°F [18°C]	60°F [15°C]	78°F [25°C]	
CH2 Circuit	Enabled			
CH2 Maximum Setpoint	140°F [60°C]	68°F [20°C]	188°F [87°C]	
CH2 Minimum Setpoint	80°F [27°C]	60°F [15°C]	188°F [87°C]	
Warm Weather Shutdown	OFF	OFF	78°F [25°C]	
Pump Constant Circulation	Disabled			
CH Post Pump Time	1 minute	OFF	20 minute	
Freeze Protection	Enabled			
Frost Protection Setpoint	-22°F [-30°C]	-22°F [-30°C]	50°F [10°C]	
Parallel Shift Value	0°F [0°C]	0°F [0°C]	144°F [80°C]	
CH Call Blocking	1 minute	0 minute	30 minutes	
System Pump	CH1/CH2			
<u>DOMESTIC SETTING</u>	<u>FACTORY DEFAULT</u>	<u>MINIMUM SETTING</u>	<u>MAXIMUM SETTING</u>	<u>EXISTING SETTING</u>
DHW Operation	Enabled			
Demand	Switch			
Boiler DHW Setpoint	186°F [86°C]	96°F [35°C]	188°F [87°C]	
DHW Storage Setpoint	140°F [60°C]	68°F [20°C]	150°F [65°C]	
DHW On Differential	6°F [3°C]	4°F [2°C]	18°F [10°C]	
DHW Storage Adder	46°F [25°C]	0°F [0°C]	54°F [30°C]	
DHW Post Pump Time	1 minute	OFF	30 minutes	
DHW Priority Timeout	OFF	OFF	120 minutes	
DHW Priority	Enabled			
DHW Call Blocking	0 minute	0 minute	30 minutes	
DHW to CH Call Blocking	1 minute	0 minute	30 minutes	
Antilegionella Function	Disabled			
<u>BOILER SETTING</u>	<u>FACTORY DEFAULT</u>	<u>MINIMUM SETTING</u>	<u>MAXIMUM SETTING</u>	<u>EXISTING SETTING</u>
Prestige Model	Solo			
Lockout Temperature	210°F [99°C]			
Modbus Address	0=BCST	0	247	
<u>CASCADE SETTING</u>	<u>FACTORY DEFAULT</u>	<u>MINIMUM SETTING</u>	<u>MAXIMUM SETTING</u>	<u>EXISTING SETTING</u>
Stage Delay	60 seconds	0 second	255 seconds	
Minimum Firing Rate	30%	0%	100%	
Maximum Firing Rate	398 MBH [117kW]	0 MBH [0kW]	869 MBH [255kW]	
CH / DHW Boilers	0	0	6	
Automatic Rotation	Enabled			
CH Proportional Gain	7	1	255	
CH Integral Gain	245	1	255	
DHW Proportional Gain	7	1	255	
DHW Integral Gain	245	1	255	