



Installation Instructions

Tracer Summit™ BMTB Bridge Retrofit into Tracer 100™

Order Number: X13651614010

X39641234-01

January 2021

BAS-SVN219D-EN

© 2021 Trane



1 Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

2 Warnings

WARNING
Proper Field Wiring and Grounding Required!
Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

WARNING
Personal Protective Equipment Required!
Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit. Failure to follow recommendations could result in death or serious injury.

WARNING
Follow EHS Policies!
Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

The Tracer Summit BMTB retrofit kit includes a frame mount BMTB, adapter plate, wall power supply, and a model number label.

Note: Comm 3/4 to Tracer SC Bridge (referred to as "Bridge") boards identified with assembly number #64002784 require Bridge image V1.0.

All other BMTB Bridges that are connected to the site must be upgraded to the new Bridge Image Version 1.0 or higher and Tracer Summit Version 17 SP12 at the same time this board is installed. The new Bridge images are available to download from the proprietary Trane Intranet software downloads web site. Failure to follow this instruction will result in the Bridge board not working.

The Tracer Summit BMTB retrofit kit can be installed in Tracer 100 (T100) models EMTF, EMTG, EMTH, or EMTI.

The following instructions assume that proper retrofit project management, retrofit planning, updated as-built drawings, and site backups have been completed prior to the retrofit installation.

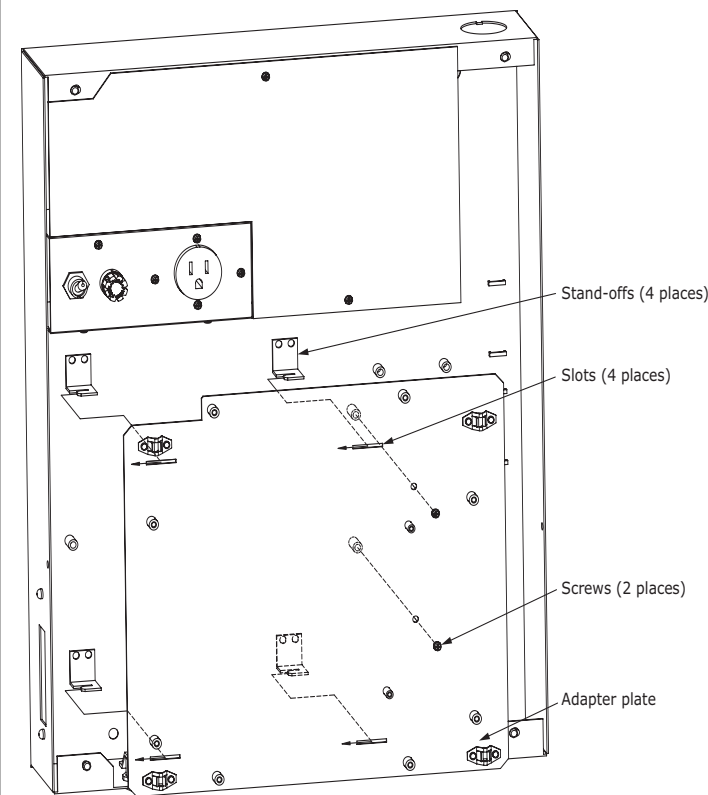
Removing the Existing T100 Board

1. Remove the cover from the T100 enclosure.
2. Turn the power switch to OFF.
3. Disconnect power cable J1 from the T100 termination logic board.
4. Tag and disconnect any communication link (comm link) wires from the TB3 terminator.
5. Disconnect and remove the optional US Robotics modem (if present).
6. Disconnect the RS232 cable from the terminator (if present) and remove the cable from the T100 enclosure.
7. Remove the screws securing the T100 main logic board and remove the board.
8. Remove the screws securing the T100 termination board and remove the board.

Installing the Adapter Plate

1. Orient the adapter plate as shown in Figure 1, p. 1. Align the slots with the stand-offs, then press the plate down over the stand-offs and slide it to the right.
2. Secure the adapter plate with the screws provided.

4 Figure 1. Installing the adapter plate



5 Installing the BMTB Frame Mount

1. Plug the new wall power supply into the power receptacle and route the wall power supply cable as shown in Figure 2, p. 1.
2. Mount the BMTB frame mount to the adapter plate using the screws supplied.

Note: The BMTB frame mount will be mounted upside down compared to how it is oriented in an actual BMTB enclosure. This helps position the termination board on the right side for wiring.

3. Unsnap and fold open the BMTB frame mount to access the grounding screw located just below the 60-pin ribbon cable (refer to Figure 3, p. 2). Securely tighten the grounding screw.
4. Connect the comm link wire pairs that were removed earlier to the appropriate BMTB comm link terminals.
5. Connect the wall power supply cable to the TB1 connector on the termination board (refer to Figure 4, p. 2). This will cause the BMTB to turn on if the power is already connected. If not, connect the power at this time. This will be displayed upside down.

Note: If unit fails to power up, try swapping the leads on power supply connector.

6. Observe the Bridge seven-segment display on the logic board. It should count down from "8" and display a -P.

Note: This will be displayed upside down.

6 Figure 2. Installing the BMTB frame mount

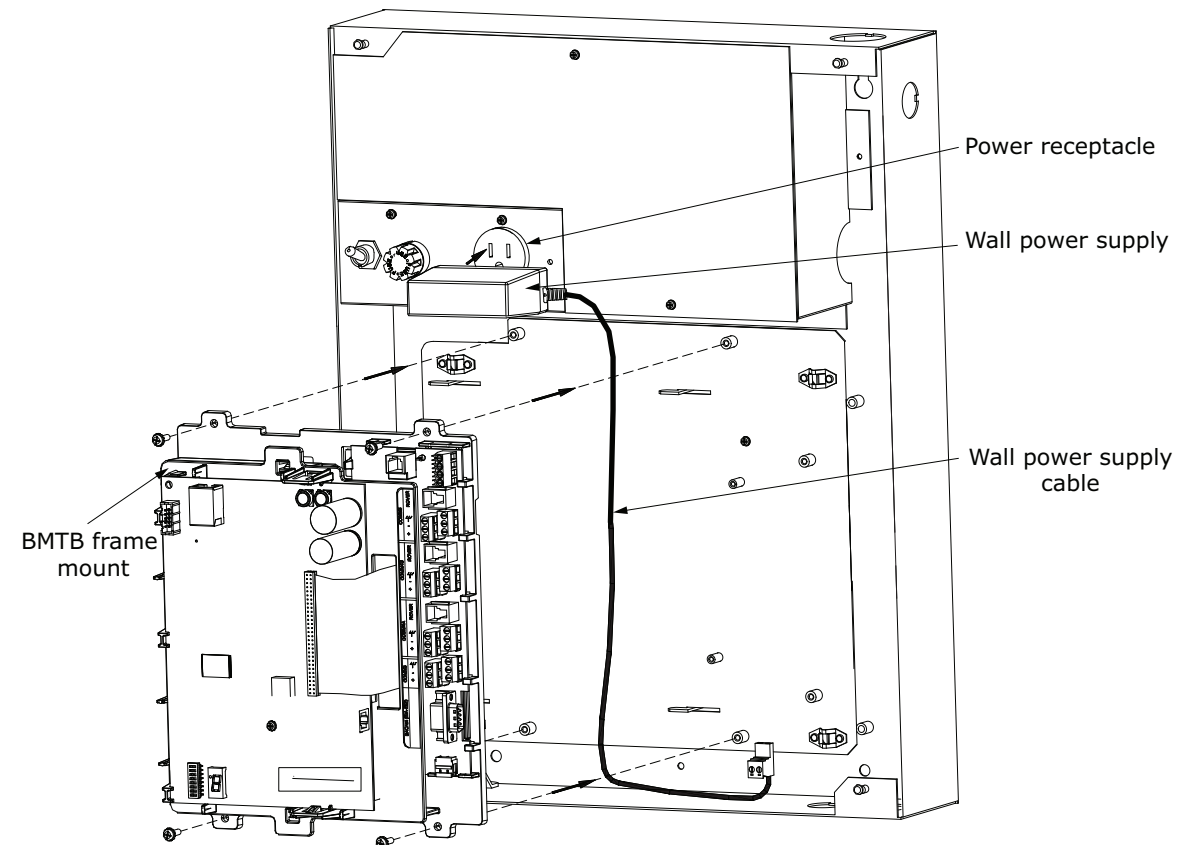
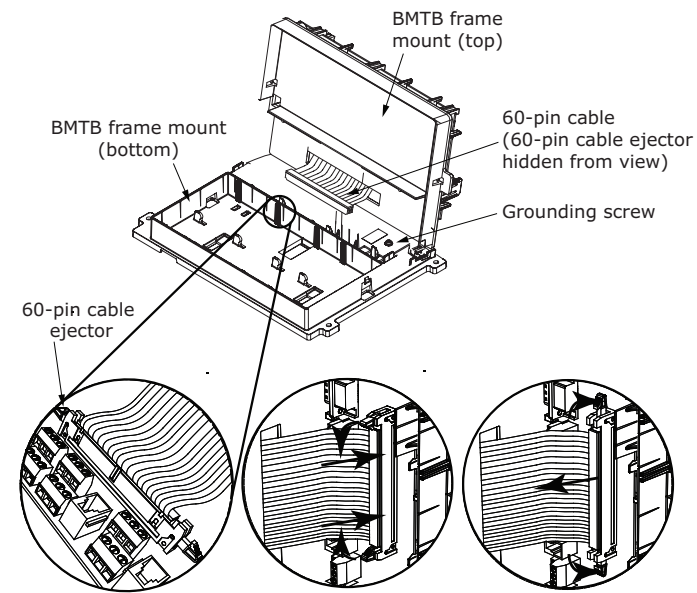


Figure 3. Accessing the grounding screw

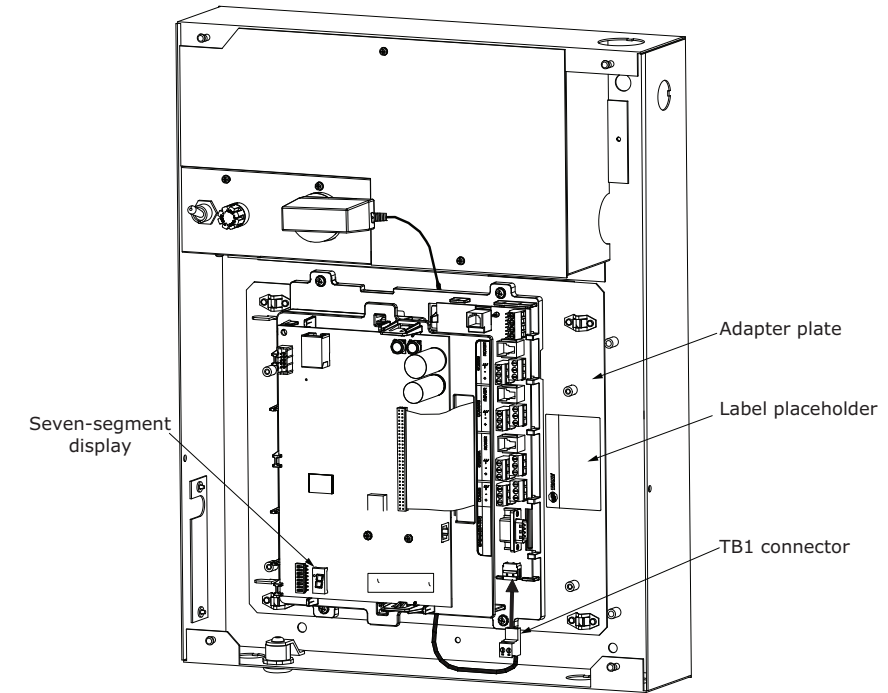


Important: Ensure that the slot keys are aligned when connecting the 60-pin cable to the 60-pin cable ejector as shown in the left inset above. When reconnecting, press down firmly on the 60-pin cable until the 60-pin cable ejector tabs collapse and snap over the ends of the cable. When disconnecting, the 60-pin cable ejector is designed to eject the 60-pin cable.

Applying the Model Number Label

1. Apply the model number label onto the label placeholder located on the adapter plate as shown below in Figure 4, p. 2.
2. Replace the T100 enclosure cover. The BMTB Bridge is now ready to be programmed for the site.

Figure 4. Completing the BMTB retrofit installation



Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.