

Installation Instructions

ReliaTel™ Options Module

Used with 3 to 10 Ton Packaged Units with ReliaTel™ Controls

Model Number: BAYABRD001* **Used With:** 3 to 10 Ton Precedent™ with ReliaTel™ Controls

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

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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

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.

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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.

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Model Number Description

All products are identified by a multiple-character model number that precisely identifies a particular type of unit. Its use will enable the owner/operator, installing contractors, and service engineers to define the operation, specific components, and other options for any specific unit. When ordering replacement parts or requesting service, be sure to refer to the specific model number and serial number printed on the unit nameplate.

General

RTOM – ReliaTel™ Options Module

The RTOM monitors the supply fan proving, clogged filter, supply air temperature, exhaust fan setpoint, supply air tempering, Froststat™ and smoke detector. Refer to system input devices and functions for operation.

Note: The options module board will be denoted on the unit wiring diagrams as RTOM.

Note: The RTOM is standard equipment on 17 Plus, D/WHC036-060H, T/YHC090-120 and T/Y/WSC120 units manufactured after Mar 2012.

Inspection

1. Unpack all components of the BAYABRD001* kit.
2. Check carefully for any shipping damage. If any damage is found, it must be reported immediately and a claim made against the transportation company.

Parts List

- 1 - RTOM Options Module
- 1 - Wiring Harness (4366-1172)
- 1 - Wiring Harness (4366-1145)
- 1 - Mounting Screw
- 1 - Mounting Bracket
- 2 - Mounting Screws

Installation

⚠ WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Verify with an appropriate voltmeter that all capacitors have discharged.

For additional information regarding the safe discharge of capacitors, see PROD-SVB06A-EN

1. Remove center access panel above heat section from the front of the unit.
2. On all units except Y/TSC036-060G, D/W*C036-060H, Y/TSC120F, T/YHC120F, T/YZC072-120, Y/THC092-102E, Y/THC074-120F and WSC120E, install the RTOM to its mounting bracket with 1 screw. Refer to Figure 1.
3. On all units except Y/TSC036-060G, D/W*C036-060H, Y/TSC120F, Y/THC092-102E, T/YHC120F, T/YZC072-120, Y/THC074-120F and WSC120E, install the RTOM and bracket assembly to the unit. Refer to Figure 1.
4. On Y/TSC120F, Y/THC092-102E, T/YHC120F, T/YZC072-120, Y/THC074-120F and WSC120E units, install the RTOM to the unit. Refer to Figure 3.

Note: For T/YSC036-60G, D/W*C036-060H, RTOM is installed in the control box above or beside the RTRM. See Figure 4.

5. Connect wire harness (4366-1172) provided in kit to RTOM J1.
6. Disconnect plug 5P1 and 5P2. Connect plug 5P1 to the other end of wire harness 4366-1172.
7. If unit has an economizer, connect plug 5P2 to RTOM J2.

Note: Units without an economizer, do not connect plug 5P2 to RTOM J2
8. Connect wire harness jumper (4366-1145) to RTOM J3 - 1 & 2. Refer to Figure 2 for pin location.

Note: Step 6 disables supply air tempering. To enable supply air tempering, remove wire harness jumper (4366-1145). Unit must be equipped with a discharge air sensing kit for supply air tempering to operate.

Figure 1. RTOM board mounted inside supply air section

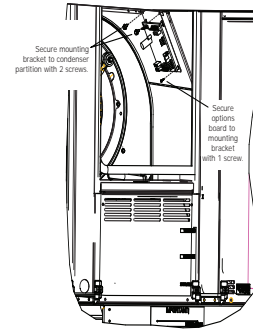


Figure 2. Options Module (RTOM board)

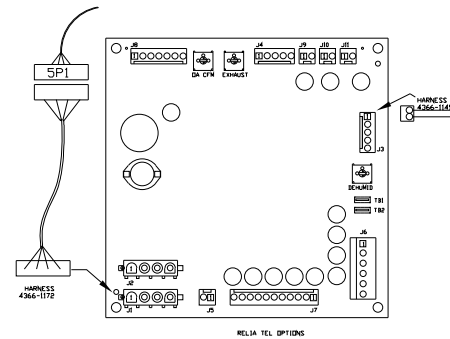


Figure 3. RTOM board mounted inside control box - method 1

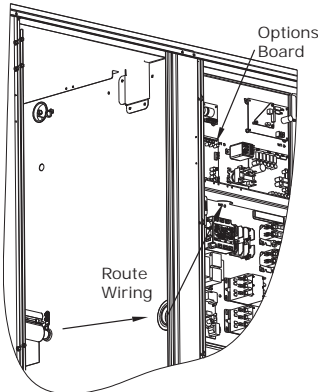


Figure 4. RTOM board mounted inside control box - method 2



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