

# Installer's Guide

## Single Point Entry Kit

BAYSPEK070  
BAYSPEK071  
BAYSPEK072

***Important:** Be sure to place the labels included with this kit on the unit nameplate and over the heater installed nameplate as indicated in [Figure 1, p. 3](#)*

### 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.

# SAFETY SECTION

**Important** — This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

## ⚠ WARNING

### HAZARDOUS VOLTAGE!

Failure to follow this Warning could result in property damage, severe personal injury, or death.

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

## ⚠ WARNING

### SAFETY AND ELECTRICAL HAZARD!

Failure to follow this Warning could result in property damage, severe personal injury, or death.

These servicing instructions are for use by qualified personnel only. To reduce the risk of electrical shock, do not perform any servicing other than that contained in these operating instructions unless you are qualified to do so.

## ⚠ CAUTION

### GROUNDING REQUIRED!

Failure to inspect or use proper service tools may result in equipment damage or personal injury. Reconnect all grounding devices. All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

## ⚠ WARNING

### UNIT CONTAINS R-410A REFRIGERANT!

Failure to use proper service tools may result in equipment damage or personal injury.

R-410A operating pressure exceeds the limit of R-22. Proper service equipment is required. Service using only R-410A Refrigerant and approved POE compressor oil.

## ⚠ WARNING

### SAFETY HAZARD!

Operating the unit without the access panels properly installed may result in severe personal injury or death.

Do not operate the unit without the evaporator fan access panel or evaporator coil access panel in place.

## ⚠ WARNING

### WARNING!

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Important:** Wear appropriate gloves, arm sleeve protectors and eye protection when servicing or maintaining this equipment.

**Important:** Air filters and media wheels or plates shall meet the test requirements in UL 900.

# General Information

Follow these instructions to install the Single-Point Power Entry Kit (SPEK) in single packaged units.

1. Check for any shipping damage, and if any, report it to the carrier immediately.
2. Check the single power entry kit nameplate to ensure available power supply complies with the particular single power entry kit, heater and unit model being used.
3. The field electrical connections and wiring must be done in accordance with the "National Electrical Code" and must comply with local electrical codes.

## Install Single Power Entry Kit

1. Remove the Control/Heat panel.
2. Mount the SPEK below the Heater Controls. Secure the SPEK with the screws provided in the kit. See illustrations and wiring diagrams throughout this guide.
3. The unit power wires provided with the SPEK will pass through Control box base and be routed up to the unit contactor.
4. Make all electrical connections to the unit and heater in accordance with the appropriate wiring diagram in this instruction and included with the specific SPEK.
5. Place the included SPEK wiring diagram on the inner surface of the Control/Heater access panel next to the unit wiring diagram and extra heater wiring diagram.

**Important:** The two (2) nameplate labels included with the single power entry kit must be attached to the air conditioning unit or heat pump unit as illustrated in [Figure 1, p. 3](#). The smaller label **MUST** be placed over the unit rating nameplate to cover the unit only MCA and Fusing. Check the appropriate kit, heaters and unit combination using the tables in this guide.

## High Voltage Field Wiring

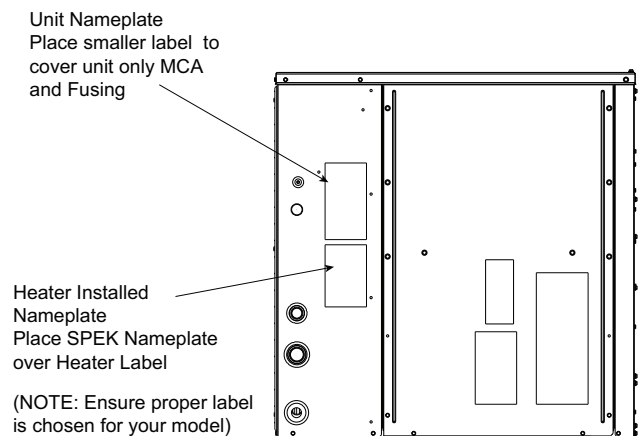
**Note:** All field wire to be rated 75°C minimum. Maximum field wire size is 2/0 AWG.

1. Check to make certain the proper ampacity and max fuse/circuit breakers for the particular SPEK are being used.
2. Remove the required electrical knockout from the unit conduit panel and route the field wires through the unit heater section (not the Control Box section).
3. Connect the power supply to the terminal block on the SPEK. See appropriate wiring diagram for hookup connections. Connect the power supply ground wire to the ground lug on the single power entry kit. The BAYSPEK072 wire terminals connect to the installed heater terminal block on the Heater Control box base to power the unit.
4. Reinstall the Control/Heat access panels.
5. Apply power to the unit.

## Low Voltage Wiring (24 Volts)

All lower voltage connections have been made to the heater via polarized plugs. The low voltage controls are connected to the room thermostat from the air conditioner or heat pump low voltage leads. See the field wiring diagram with the unit.

**Figure 1. Single Point Power Entry Kit Label Positions**



dwg D676738

# BAYSPEK with Heater Models

**Figure 2. LABEL-NAMEPLATE 070, 071, and 072 (AC Models)**

Trane U.S. Inc. Manufacturer of American Standard HVAC					
SINGLE POWER ENTRY KIT	HEATER MODEL	CHECK	UNIT MODEL	MIN CKT. AMP.	MAX OVER CURRENT PROTECT DEVICE
BAYSPEK071	BAYHTRIV15 BAYHTRIH15		4TCA4030*I	81	90
			4TCA4036A1	81	90
			4TCA4036C1	83	90
			4TCA4042*I	83	90
			4TCA4048*I	83	90
			4TCA4060*I	83	90
	BAYHTRIV20 BAYHTRIH20		4TCA4048*I	108	110
			4TCA4060*I	108	110
BAYSPEK072	BAYHTRIV05		4TCA4024*I	31	35
			4TCA4030*I	31	35
			4TCA4036A1	31	35
			4TCA4036C1	33	40
			4TCA4042*I	33	50
			4TCA4048*I	33	50
			4TCA4060*I	40	60
			4TCA4024*I	46	50
	BAYHTRIV08 BAYHTRIH08		4TCA4030*I	46	50
			4TCA4036A1	46	50
			4TCA4036C1	48	50
			4TCA4042*I	48	50
			4TCA4048*I	48	50
			4TCA4060*I	48	60
			4TCA4024*I	56	60
			4TCA4030*I	56	60
	BAYHTRIV10 BAYHTRIH10		4TCA4036A1	56	60
			4TCA4036C1	58	60
			4TCA4042*I	58	60
			4TCA4048*I	58	60
			4TCA4060*I	58	60

INSTALLER OF THE SINGLE POWER ENTRY KIT MUST CHECK THE APPROPRIATE BOX ABOVE TO RECORD THE KIT, HEATER AND UNIT MODEL NUMBERS INSTALLED. POWER SUPPLY VOLTAGE TO UNIT AND HEATER MUST BE IDENTICAL. CHECK THE UNIT AND HEATER NAMEPLATES TO DETERMINE THE CORRECT POWER SUPPLY VOLTAGE. CHECK HEATER NAMEPLATE TO DETERMINE HEATER KW AND CURRENT RATING. MINIMUM INSTALLATION CLEARANCE TO COMBUSTIBLE MATERIAL WHEN ELECTRIC HEATERS ARE INSTALLED: UNIT CABINET-0", PLENUM-0" AND OUTLET DUCT- 0". \* INDICATES AN ALPHA CHARACTER.

PLACE ABOVE LABEL OVER "ELECTRIC HEATER INSTALLED" NAMEPLATE ON UNIT D932389P03

Figure 3. LABEL-NAMEPLATE 070, 071, and 072 (HP Models)

Trane U.S. Inc. Manufacturer of American Standard HVAC					
SINGLE POWER ENTRY KIT	HEATER MODEL	CHECK	UNIT MODEL	MIN CKT. AMP.	MAX OVER CURRENT PROTECT DEVICE
BAYSPEK070	BAYHTRIV05		4WCA4042*I	58	70
			4WCA4048*I	60	70
			4WCA4060*I	67	80
	BAYHTRIH08		4WCA4024*I	62	70
			4WCA4030A I	65	70
			4WCA4030C I	63	70
			4WCA4036A I	70	80
			4WCA4036C I	65	70
			4WCA4042*I	73	80
			4WCA4048*I	75	80
			4WCA4060*I	82	90
	BAYHTRIH10		4WCA4024*I	72	80
			4WCA4030A I	75	80
			4WCA4030C I	73	80
			4WCA4036A I	80	80
			4WCA4036C I	75	80
			4WCA4042*I	83	90
			4WCA4048*I	85	90
		4WCA4060*I	92	100	
BAYSPEK071	BAYHTRIH15		4WCA4036A I	105	110
			4WCA4036C I	100	100
			4WCA4042*I	108	110
			4WCA4048*I	110	110
		4WCA4060*I	117	125	
	BAYHTRIH20		4WCA4060*I	142	150
BAYSPEK072	BAYHTRIV05		4WCA4024*I	47	50
			4WCA4030A I	50	60
			4WCA4030C I	48	50
			4WCA4036A I	55	60
			4WCA4036C I	50	50
INSTALLER OF THE SINGLE POWER ENTRY KIT MUST CHECK THE APPROPRIATE BOX ABOVE TO RECORD THE KIT, HEATER AND UNIT MODEL NUMBERS INSTALLED. POWER SUPPLY VOLTAGE TO UNIT AND HEATER MUST BE IDENTICAL. CHECK THE UNIT AND HEATER NAMEPLATES TO DETERMINE THE CORRECT POWER SUPPLY VOLTAGE. CHECK HEATER NAMEPLATE TO DETERMINE HEATER KW AND CURRENT RATING. MINIMUM INSTALLATION CLEARANCE TO COMBUSTIBLE MATERIAL WHEN ELECTRIC HEATERS ARE INSTALLED: UNIT CABINET-0", PLENUM-0" AND OUTLET DUCT- 0". * INDICATES AN ALPHA CHARACTER.					
PLACE ABOVE LABEL OVER "ELECTRIC HEATER INSTALLED" NAMEPLATE ON UNIT				D932389P04	

Figure 4. Single Point Assembly Location - Generic Representation

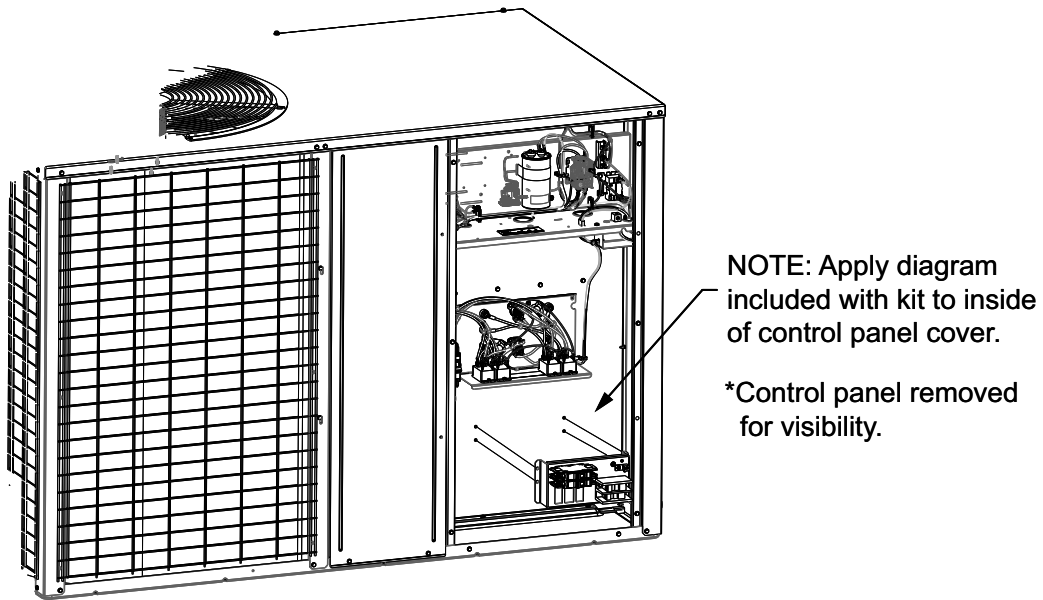


Figure 5. BAYSPEK070

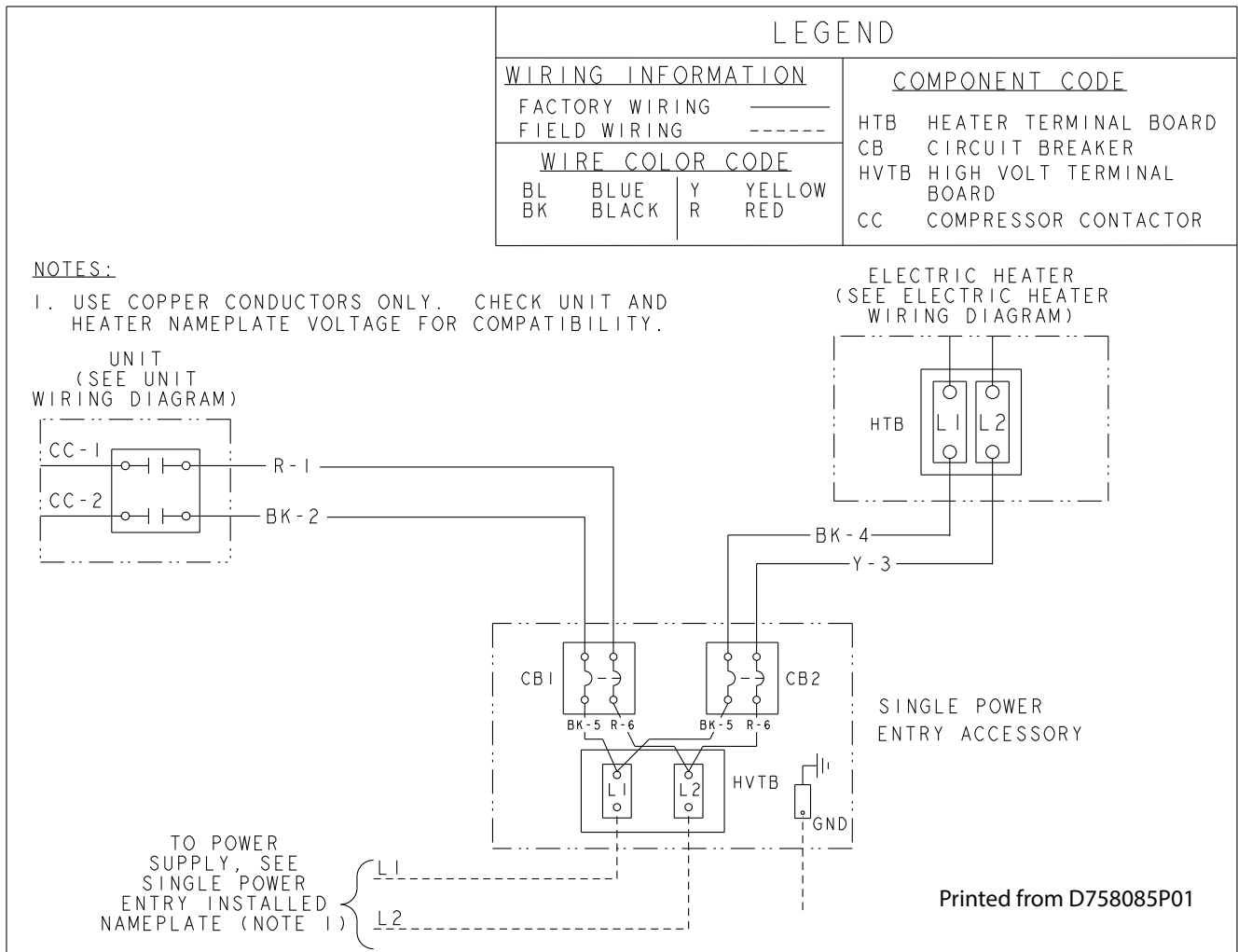


Figure 6. BAYSPEK071

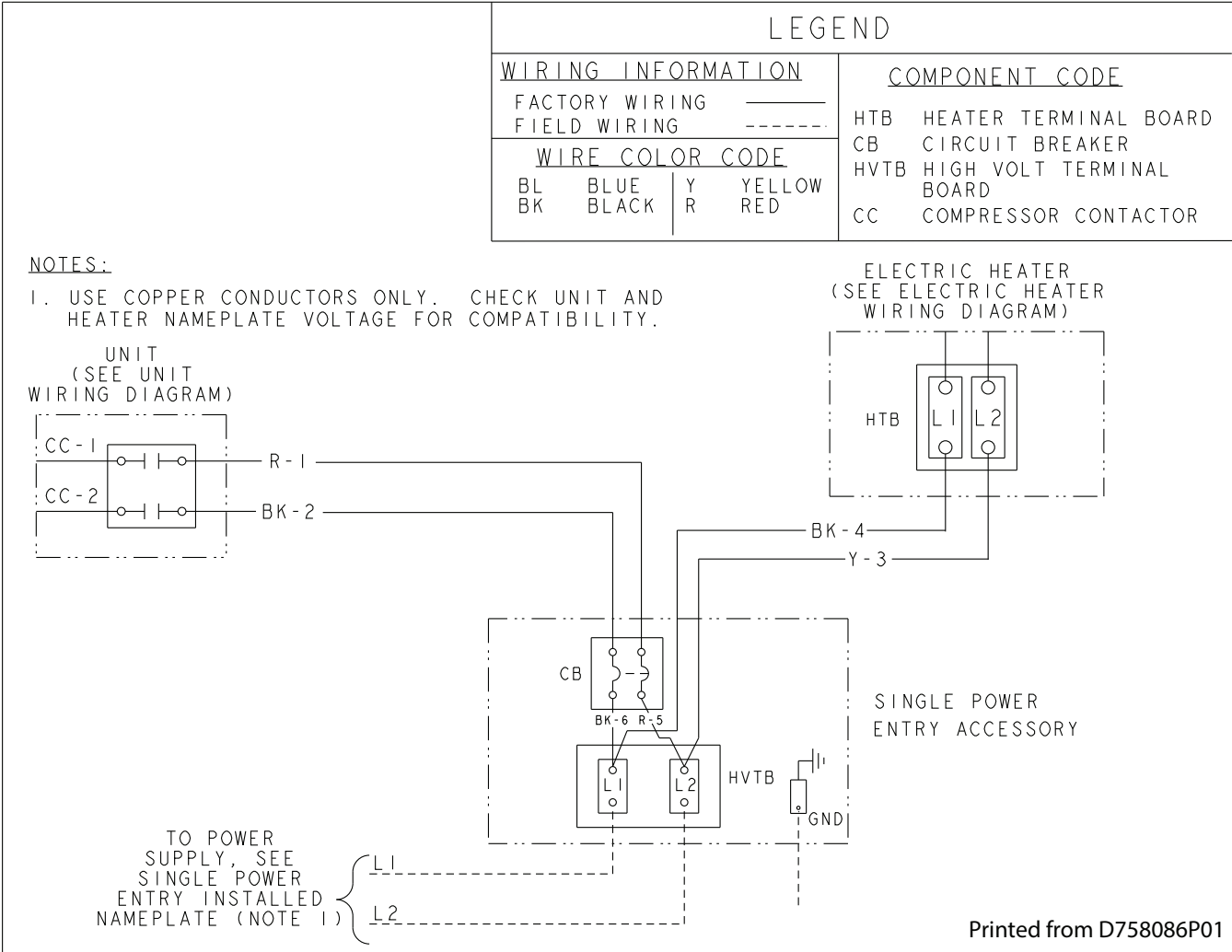
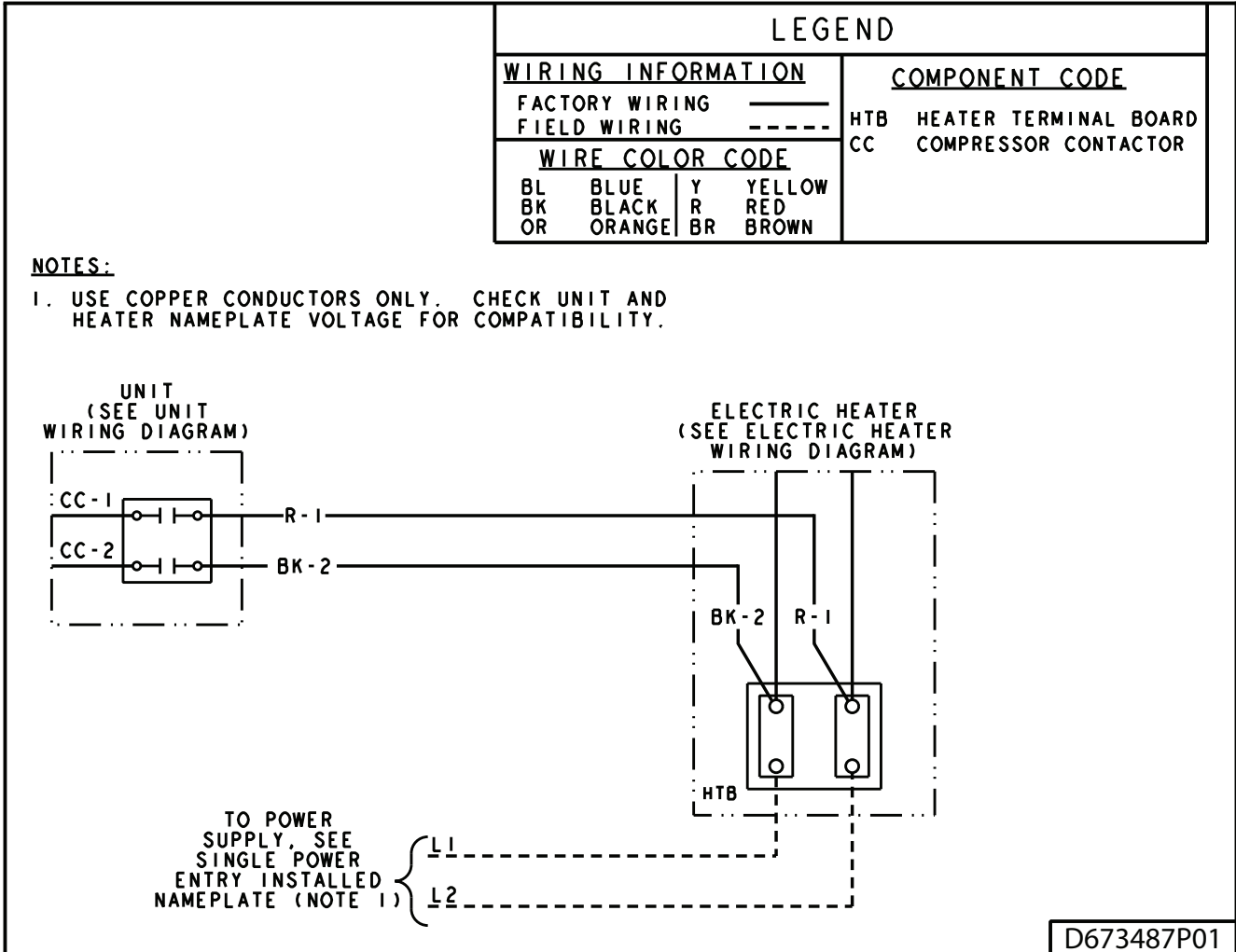
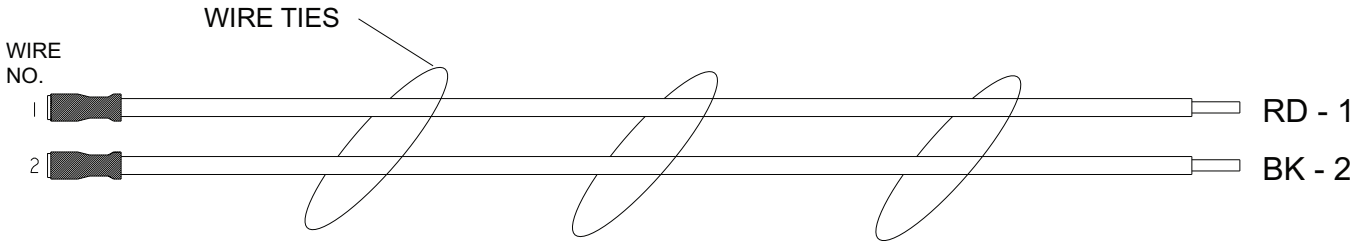


Figure 7. BAYSPEK072











## About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit [www.trane.com](http://www.trane.com) or [www.americanstandardair.com](http://www.americanstandardair.com).

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