# INSTALLER'S GUIDE

**ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES**

## Compressor Control Module Kit:

**BAYCC24VK01A** - **Used with AM8 air handler installations with 24 VAC outdoor units**

**Fits Models:**

## Hyperion™ and ForeFront™ Air Handlers

*IMPORTANT*—*This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.*

## Section 1. Safety Information

| ⚠ **WARNING** |
|---|
| **SAFETY HAZARD!** This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use. |

| ⚠ **WARNING** |
|---|
| **ELECTRICAL SHOCK HAZARD!** Disconnect all electrical power, including remote disconnects, before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to follow this warning could result in property damage, serious personal injury, or death. |

| ⚠ **WARNING** |
|---|
| **SAFETY HAZARD!** Sharp Edge Hazard. Be careful of sharp edges on equipment or any cuts made on sheet metal while installing or servicing. Personal injury may result. |

## Section 2. General Information

Open carton and inspect contents for damage or missing items.

Each kit will contain:

| Item No. | Drawing No. | Description | Quantity |
|---|---|---|---|
| 1 | D156167G01 | CCM Assembly | 1 |
| 2 | D803416P01 | Jumper Harness -Lg | 1 |
| 3 | D803760P01 | Jumper Harness -Sm | 1 |
| 4 | D803188P01 | Screws | 4 |
| 5 | 18-GJ36D1-1A-EN | Installer's Guide | 1 |
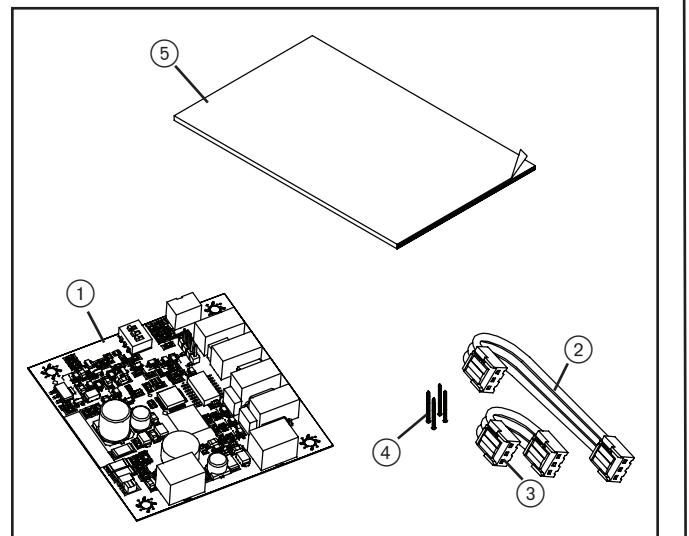
## Section 3. Install the Compressor Control Module Kit

**STEP 1** - Set the S1 dip switches on the board to match system type.

| S1 Dip Switch Settings | | | |
|---|---|---|---|
| | OFF | ON | |
| S1-1 | HP | AC | OD Type |
| S1-2 | 1 | 2 | OD Stages |
| S1-3 | 1 | 2 | # Compressors |

16 SEER = 2 Stages
19 SEER = 2 Stages
20 SEER = 2 Stages

16 SEER = 1 Compressor
19 SEER = 2 Compressors
20 SEER = 2 Compressors

S1
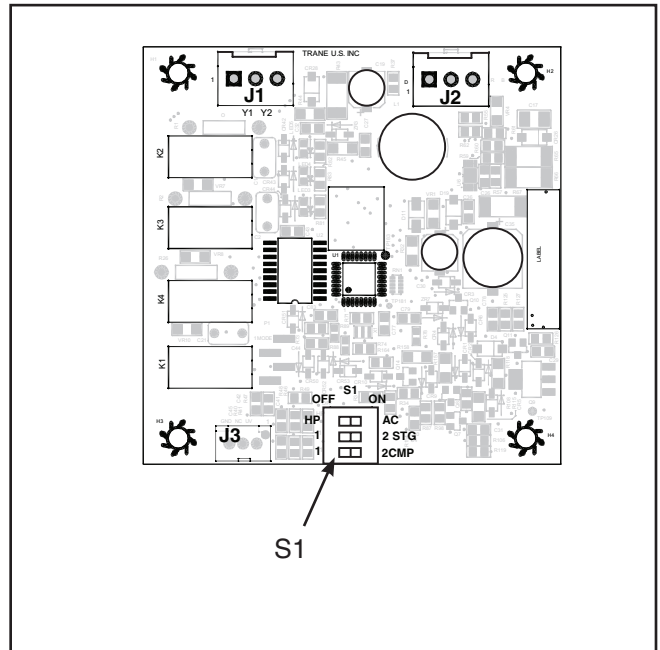
**Field Wiring Diagram**
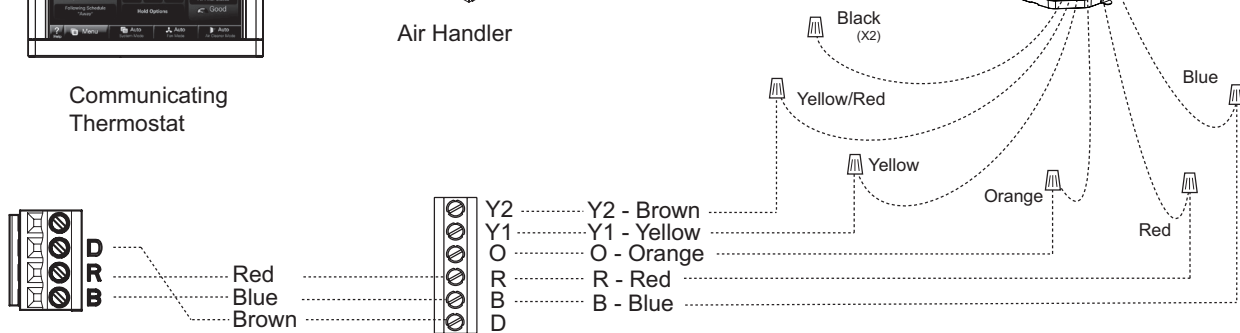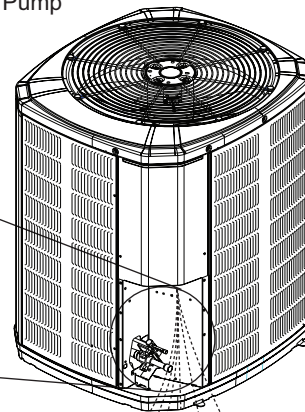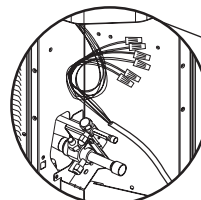Communicating Thermostat and AM8 air handler with 24 VAC outdoor equipment
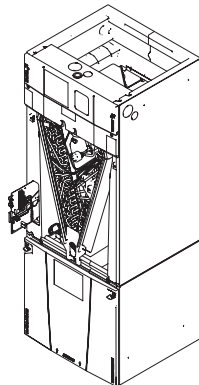
2 Stage Heat Pump

Neatly bundle all low voltage wires behind the service valve cover as shown.

Air Handler

Communicating Thermostat

Black (X2)

Yellow/Red

Blue

Yellow

Orange

Red

D
R
B

Red
Blue
Brown

Y2 ......... Y2 - Brown
Y1 ......... Y1 - Yellow
O ......... O - Orange
R ......... R - Red
B ......... B - Blue
D

····· Field wiring

Notes:
1. X2 must be capped.
2. The thermostat and/or air handler controls auxiliary heat during defrost.
3. If a 3rd party condensate overflow switch is installed, it should be wired in series with R to the thermostat or connected to the External Switch terminals on the AFC. See External Switch wiring section.
4. For 24 VAC Outdoor equipment, accessory BAYCC24VK01A must be ordered separately

## ⚠ WARNING

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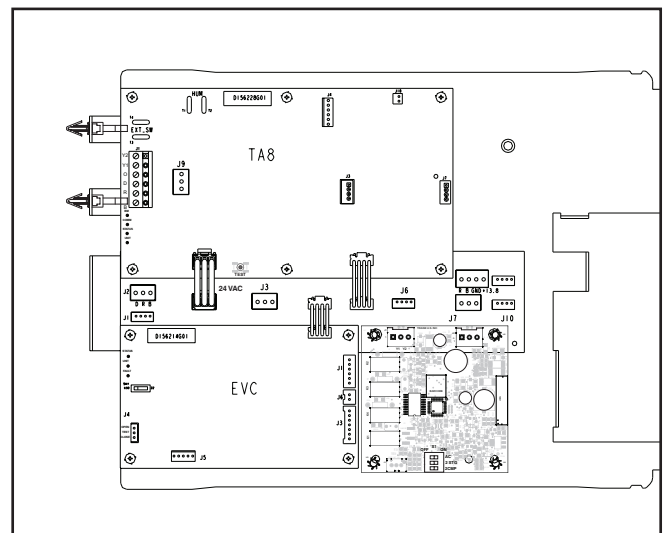**STEP 2** - Turn off all power to the unit.

**STEP 3** - Open the coil compartment per the Installer's Guide.

**STEP 4** - Slide out the control board.

**STEP 5** - Locate the four compressor control module board mounting holes on the AM8 control board.
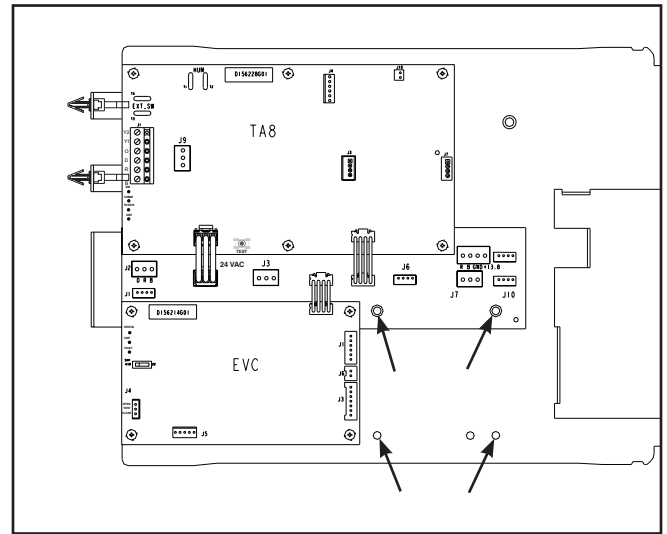


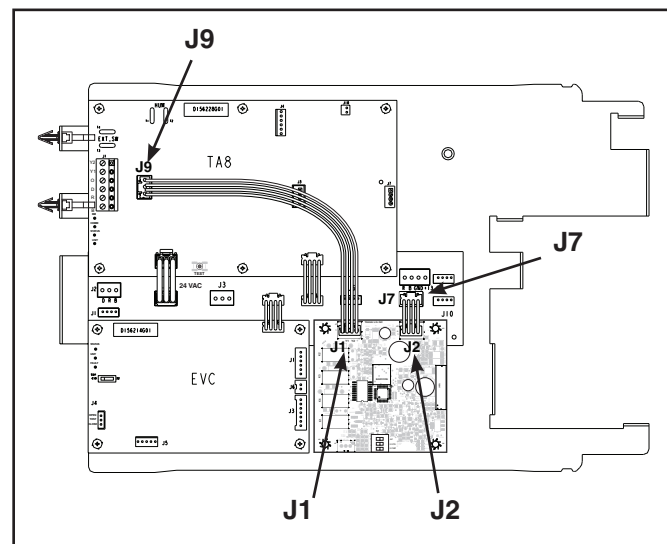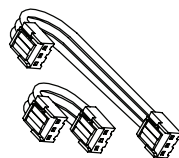**STEP 6** - Attach the compressor control module board to the AM8 control board using the four supplied screws.
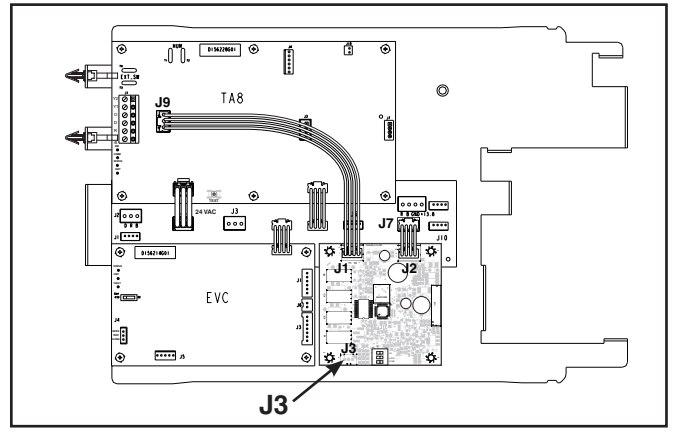


**STEP 7** - Attach wiring harnesses.

1. Attach the short harness between J2 on the compressor control module board and J7 on the distribution board.
2. Attach the long harness between J9 on the AFC and J1 on the compressor control module board.

**STEP 8** - Optional UV light kit connection.
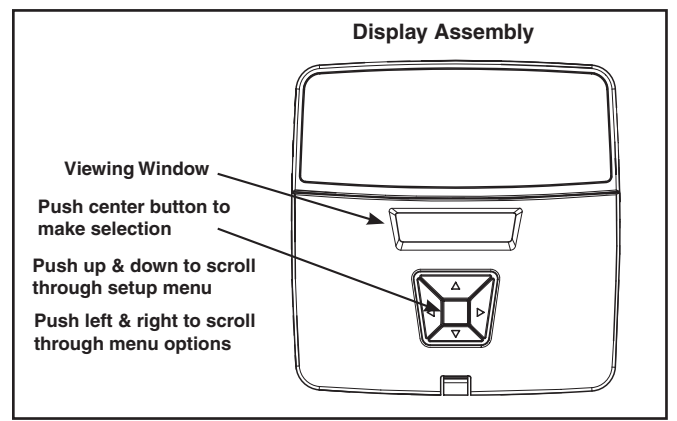1. Plug UV light harness plug into J3 terminal for smart operation.

J3

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**STEP 9** - Reinsert the control panel into the control pocket and replace the coil panel.

**STEP 10** - Turn on power to the air handler.

**STEP 11** - Configure OD unit
1. Scroll to the Config menu section of the Display Assembly. See Installer's Guide or Service Facts for menu information.
2. Set OD tonnage to match the OD capacity.
3. Adjust CFM/Ton airflow for both heating and cooling, if needed.

**Display Assembly**

Viewing Window

Push center button to make selection

Push up & down to scroll through setup menu

Push left & right to scroll through menu options

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**LED Codes** - The three LED lights appear on the CCM control board.

**CCM COM LED (AMBER LED)**

| CCM COMM LED | Description |
|---|---|
| Device count | Number of communicating devices* |

**CCM STATUS LED (GREEN LED)**

| CCM STATUS LED | Description |
|---|---|
| 1 Flash per second | Idle / Standby |
| 1 Flash per 4 seconds | 1st Stage |
| 2 Flash per 4 seconds | 2nd Stage |

**CCM FAULT LED (RED LED)**

| CCM FAULT LED | Description |
|---|---|
| 3 Flash | Communication Error |

COM
STATUS
FAULT
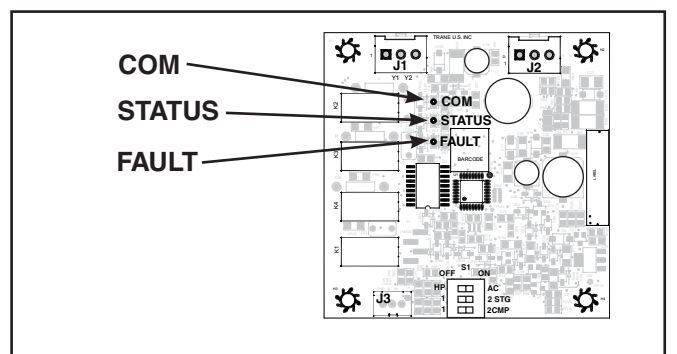
\* Examples: communicating thermostat, communicating air cleaner, etc.

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**STEP 12** - Verify all modes of operation.

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## 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 or www.americanstandardair.com