VIRGINIA AIR

VIRGINIA AIR DISTRIBUTORS, INC.

# York Retail System Specific Wiring Diagrams

January 2012

## Using Honeywell Thermostats

Clicking on the Virginia Air Logo takes you to the Index Page

YORK®

A JOHNSON CONTROLS COMPANY

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# Index for Low Voltage Wiring Affinity Units



## HONEYWELL ZONING CONTROLS

To be determined

## Index for Low Voltage Wiring LX Units

| | | | | |
|---|---|---|---|---|
| YHJF 1.5-4 Ton | 1 Stage HP | AHE | Variable Speed Air Handler X13 Motor Honeywell VP 8000 | WD40 |
| YHJF 1.5-4 Ton | 1 Stage HP | MX | Variable Speed Air Handler X13 Motor Honeywell VP 8000 | WD41 |
| YHJF 1.5-4 Ton | 1 Stage HP | TM9V or 8V | 95% & 80% 2 Stage Variable Speed Gas Furnace HW VP 8000 | WD42 |
| YHJF 1.5-4 Ton | 1 Stage HP | TM9X or 8X | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD43 |
| YHJF 5 Ton | 2 Stage HP | TM9V or 8V | 95% & 80% 2 Stage Variable Speed Gas Furnace HW VP 8000 | WD44 |
| YHJF 5 Ton | 2 Stage HP | TM9X or 8X | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD45 |
| YHJD | 1 Stage HP | AHE | Variable Speed Air Handler X13 Motor Honeywell VP 8000 | WD46 |
| YHJD | 1 Stage HP | MX | Variable Speed Air Handler X13 Motor Honeywell VP 8000 | WD47 |
| YHJD | 1 Stage HP | TM9X or 8X | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD48 |
| YHJR | 1 Stage HP | TG9S or 8S | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD49 |
| YCJF | 1 Stage AC | TM9X or 8X | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD50 |
| YCJD | 1 Stage AC | TM9X or 8X | 95% & 80% 1 Stage Multi-Tap Gas Furnace HW VP 8000 | WD51 |

## A Brief Description of Low Voltage Terminals used on York units.

R - Hot side of 24 volt transformer
C - Common side of 24 volt transformer
Y - Cooling or heating call on single stage units
Y1 - 1st stage cooling or heating call
Y2 - 2nd stage cooling or heating call
Y/Y2 - Used to get full indoor unit CFM
W - Heating call on single stage furnaces
O - Energize the reversing valve to get cooling
G - Energize the blower
W1 - 1st stage heating call
W2 - 2nd stage heating call
Y2 Out - Used to energize the indoor cfm to high speed
W1 Out - Output to energize 1st stage heat when in defrost
W2 Out - Output to energize 2nd stage heat when in defrost
W1/66 - Used to energize 1st stage heat when in defrost
BSG & BS - Terminals on the defrost control to connect bonnet sensor in the duel fuel mode
Hum - Humidistat input
DHUM - Used to slow the indoor blower in high humidity applications
Lo Comp - Used on modulating furnaces when there is a single stage thermostat for cooling
Hi Comp - Used on modulating furnaces when there is a single stage thermostat for cooling

York System
Wiring Diagram

| | |
|---|---|
| **YZH** | 2-STAGE HEAT PUMP |
| **AVG** | SINGLE PIECE VARIABLE SPEED AIR HANDLER |
| **MV** | TWO PIECE VARIABLE SPEED AIR HANDLER |

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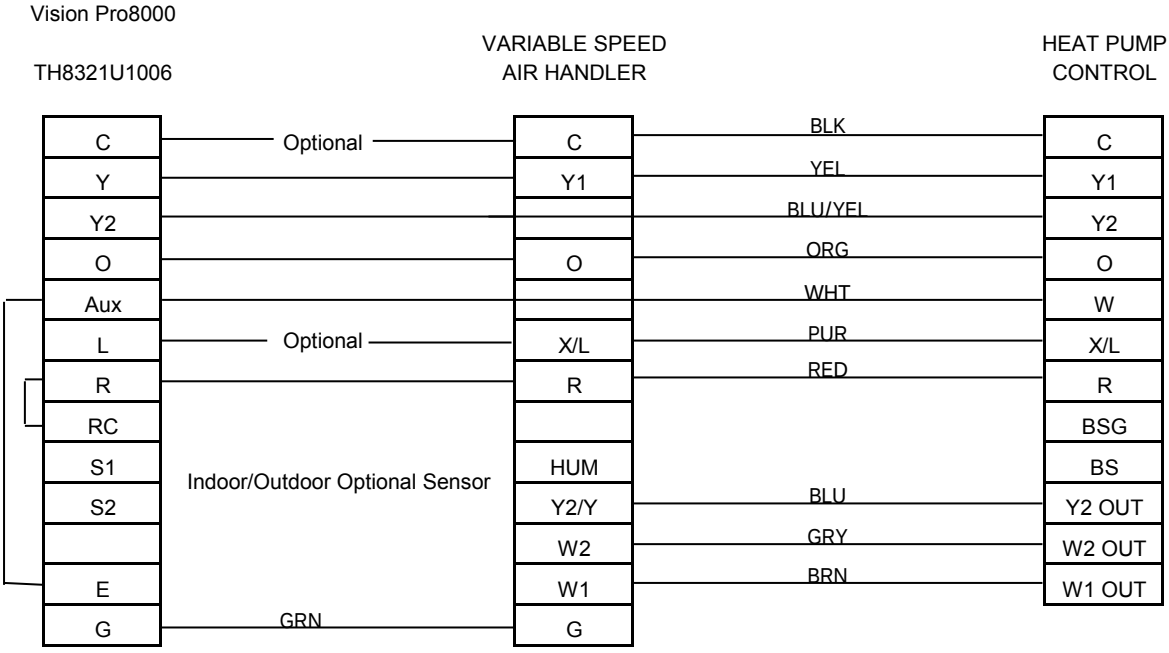


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat its operating 3 heat and 2 cool stages)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZH** 2-STAGE HEAT PUMP
**AVG** SINGLE PIECE VARIABLE SPEED AIR HANDLER
**MV** TWO PIECE VARIABLE SPEED AIR HANDLER
**HONEYWELL 9000 IAQ THERMOSTAT**

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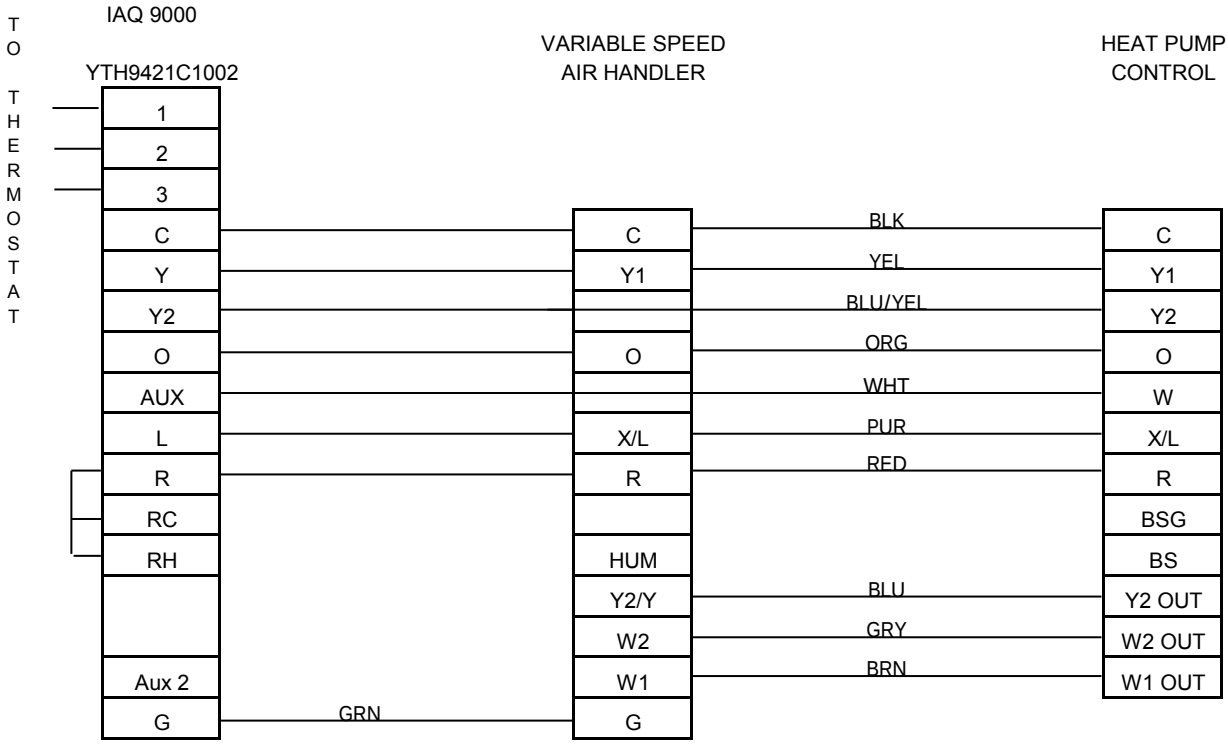


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 2 (tells stat number of cooling stages)
#176, CHANGE TO 3 (tells stat number of heating stages)
#200, CHANGE TO 0 (tells stat back up heat is electric)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZH** 2-STAGE HEAT PUMP
**YP9C** 95% MODULATING VARIABLE SPEED GAS FURNACE

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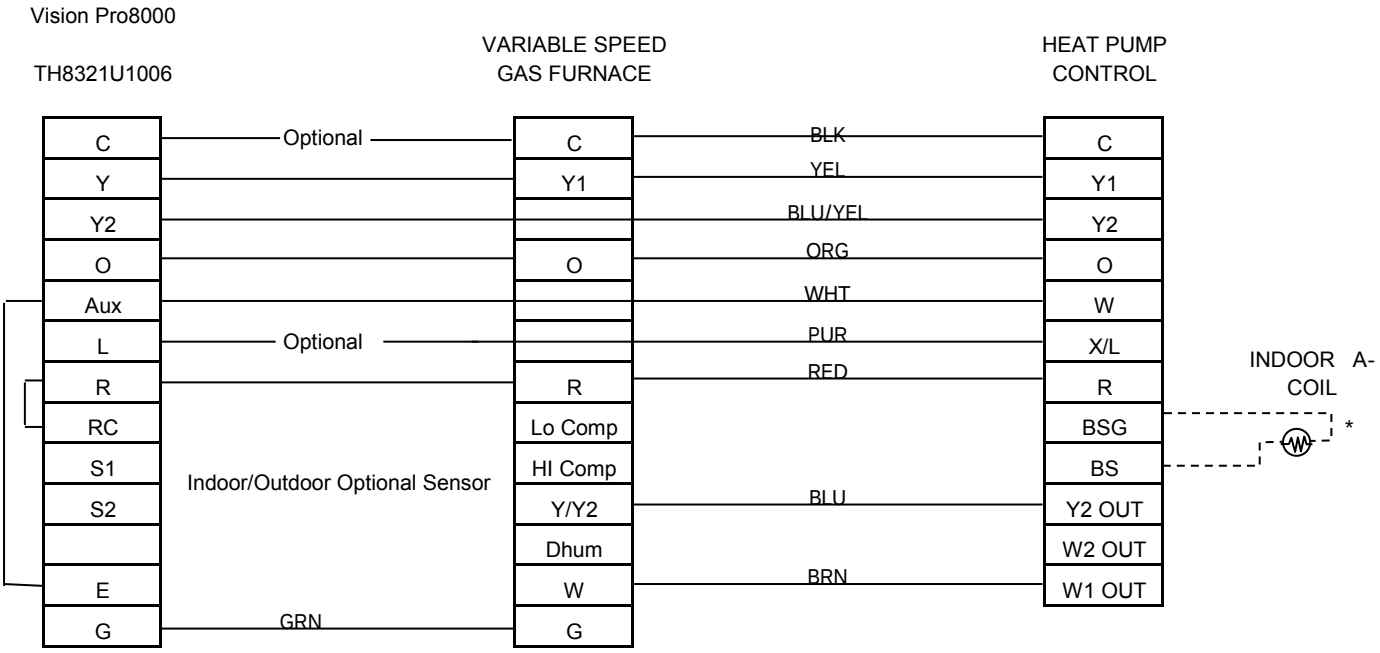


* OPTIONAL BONNET SENSOR

**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat system is 3 heat stages and 2 cool stages

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

**J19 Zone Control= Y/N(optional) J22 Heat Pump = YES**

Set Blower Speeds as Required for Proper CFM. J9 = Cool, J16 = Adj, J15 = Delay

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

F Fuel = ON

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZH** 2-STAGE HEAT PUMP
**YP9C** 95% MODULATING VARIABLE SPEED GAS FURNACE
**Honeywell 9000 IAQ Thermostat**

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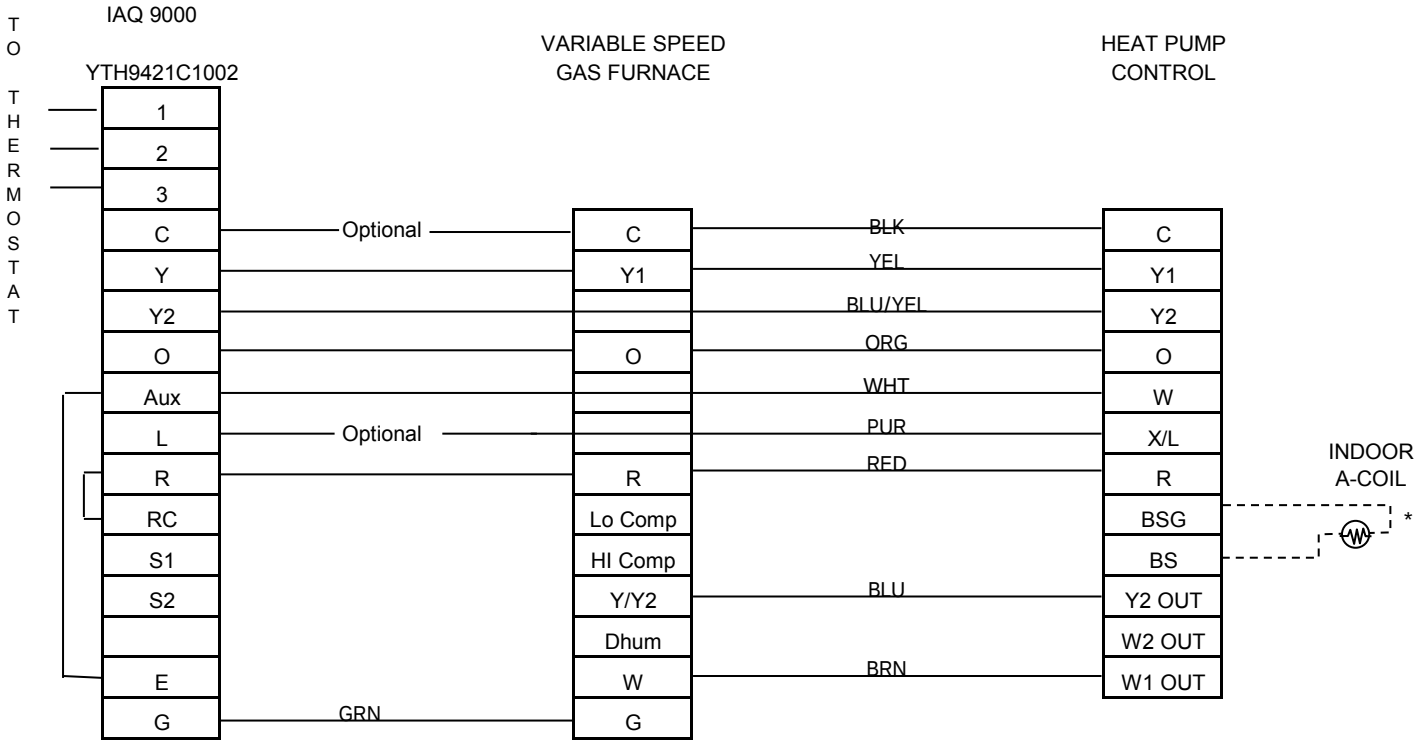


* OPTIONAL BONNET SENSOR

**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 2 (tells stat number of cooling stages)
#176, CHANGE TO 3 (tells stat number of heating stages)
#200, CHANGE TO 1 (tells stat back up heat is electric)
#210, CHANGE TO 1 (tells stat external fossil fuel kit)

**Critical Installation Set up on Furnace Jumpers**

J9=Zone Control = Y/N (optional) J22=Heat Pump = YES

Set Blower Speeds as Required for Proper CFM. J9 = Cool, J16 = Adj, J15 = Delay

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

F Fuel = ON

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZH** 2-STAGE HEAT PUMP
**TM9X** **Gas Furnace**
**TM8X** **Gas Furnace**

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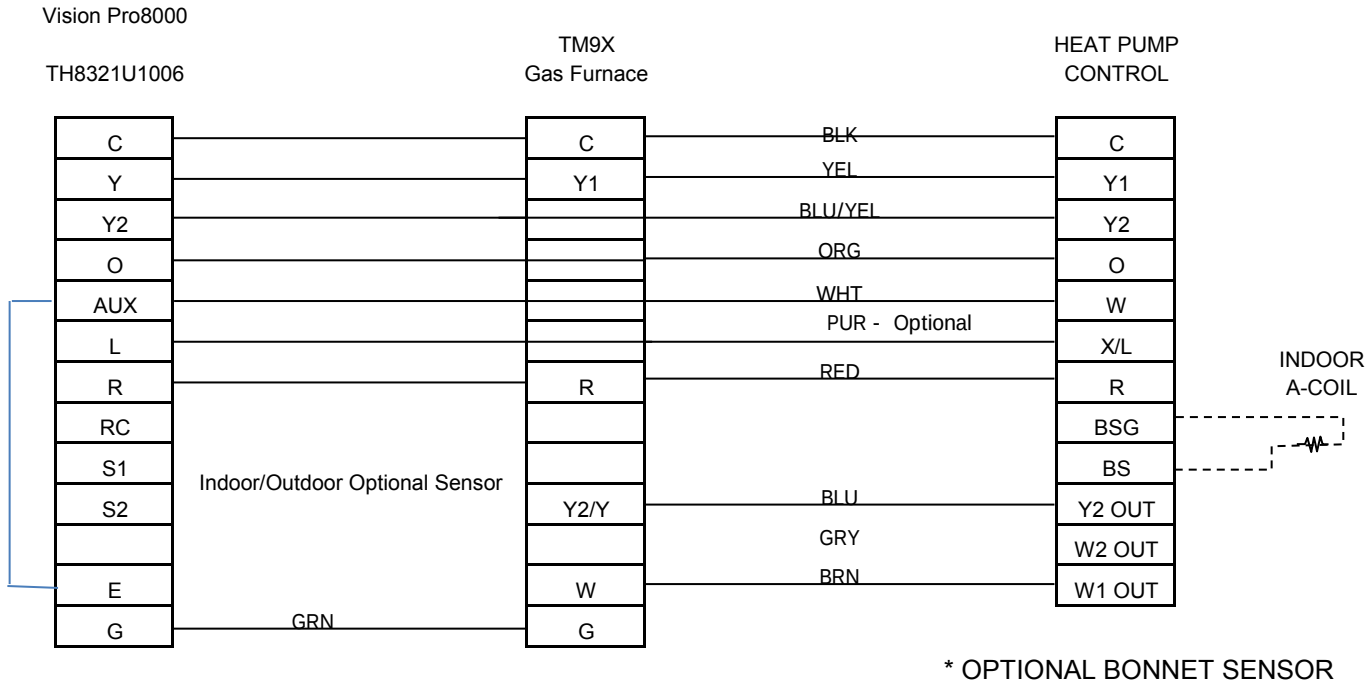


* OPTIONAL BONNET SENSOR

**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat system is 3 heat stages and 2 cool stages

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

P4 Jumper = Blower Off Delay P7 Jumper = Fan Speed Contionus Fan

Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZH** 2-STAGE HEAT PUMP
**TM9X Gas Furnace**
**TM8X Gas Furnace**
**HONEYWELL 9000 IAQ THERMOSTAT**

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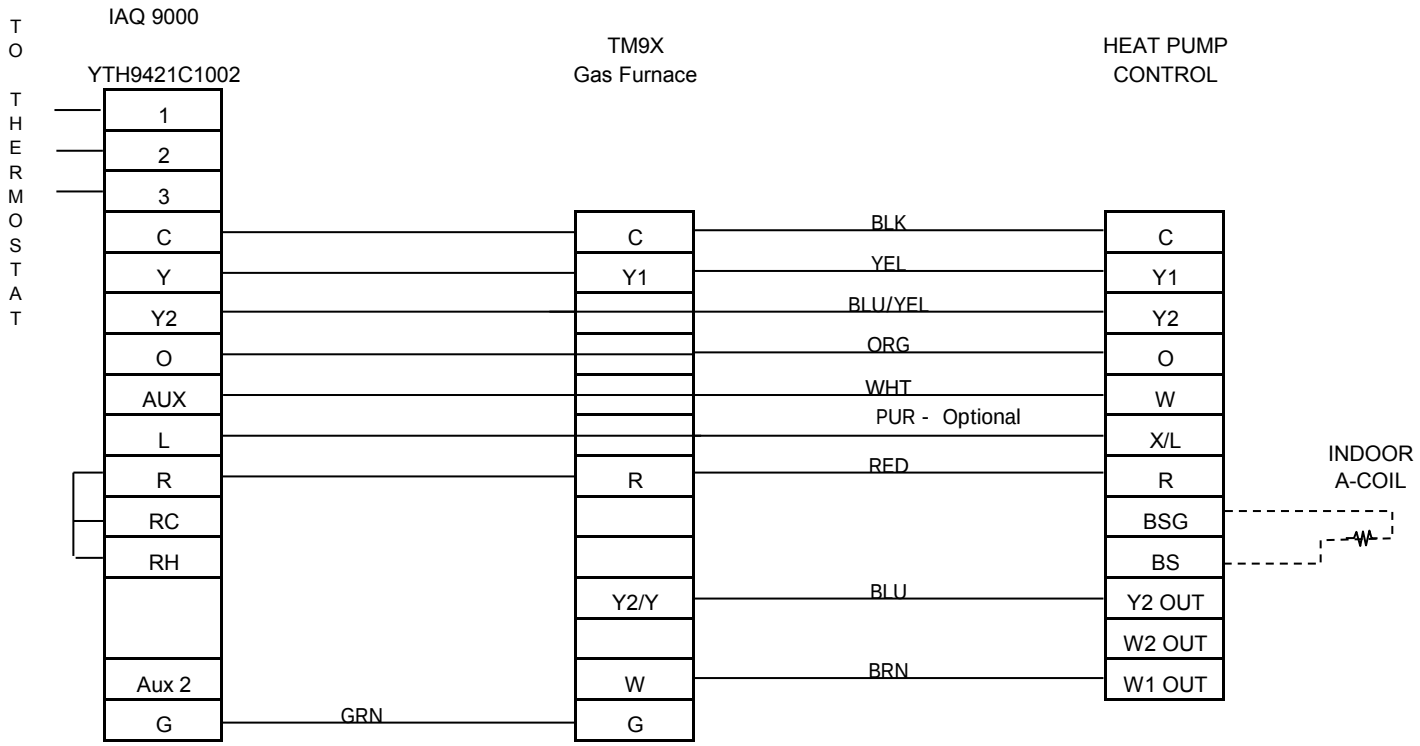


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 2 (tells stat number of cooling stages)
#176, CHANGE TO 3 (tells stat number of heating stages)
#200, CHANGE TO 1 (tells stat back up heat is fossil fuel)
#210, CHANGE TO 1 (tells stat fossil fuel is controlled external)

**Critical Installation Set up for Furnace Jumpers**

P4 Jumper = Blower Off Delay P7 Jumper = Fan Speed Contionus Fan
Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default
BP (balance point) = 35º is factory setting, but should be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

| | |
|---|---|
| **YZF** | 1-STAGE HEAT PUMP - 1.5 - 4 Ton |
| **AVG** | SINGLE PIECE VARIABLE SPEED AIR HANDLER |
| **MV** | TWO PIECE VARIABLE SPEED AIR HANDLER |

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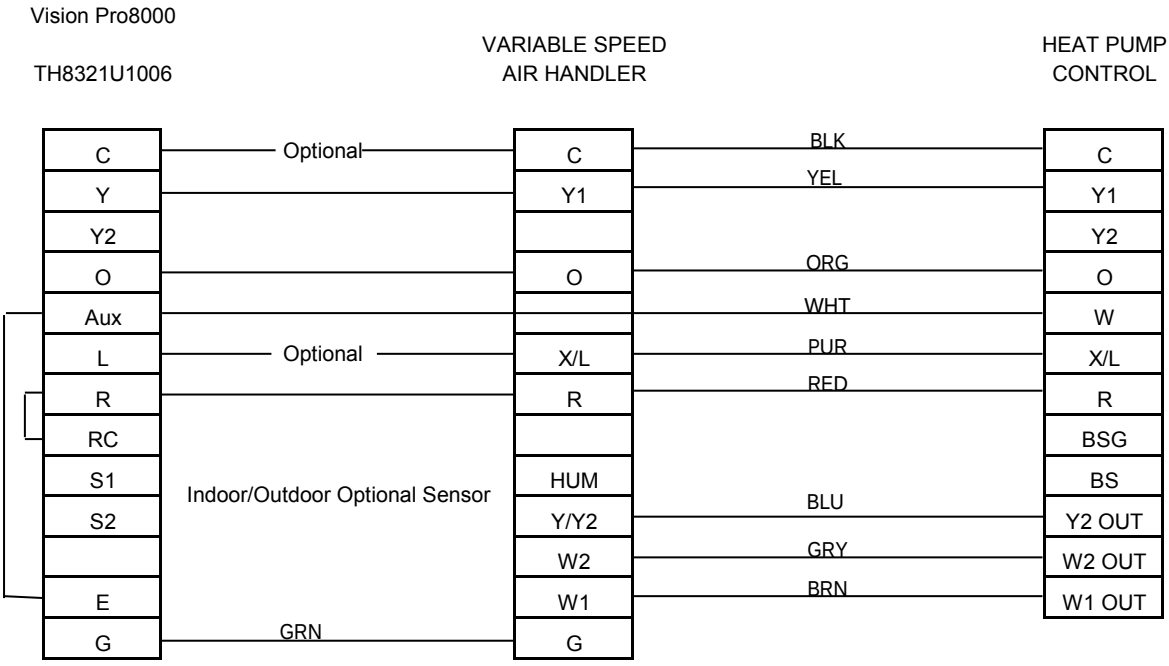


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 7 (tells the stat it's operating at 2 heat and 1 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump Set Blower Speeds as Required for Proper CFM

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional)

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** **!**-STAGE HEAT PUMP 1.5 - 4 Ton
**AVG** SINGLE PIECE VARIABLE SPEED AIR HANDLER
**MV** TWO PIECE VARIABLE SPEED AIR HANDLER
**HONEYWELL 9000 IAQ THERMOSTAT**

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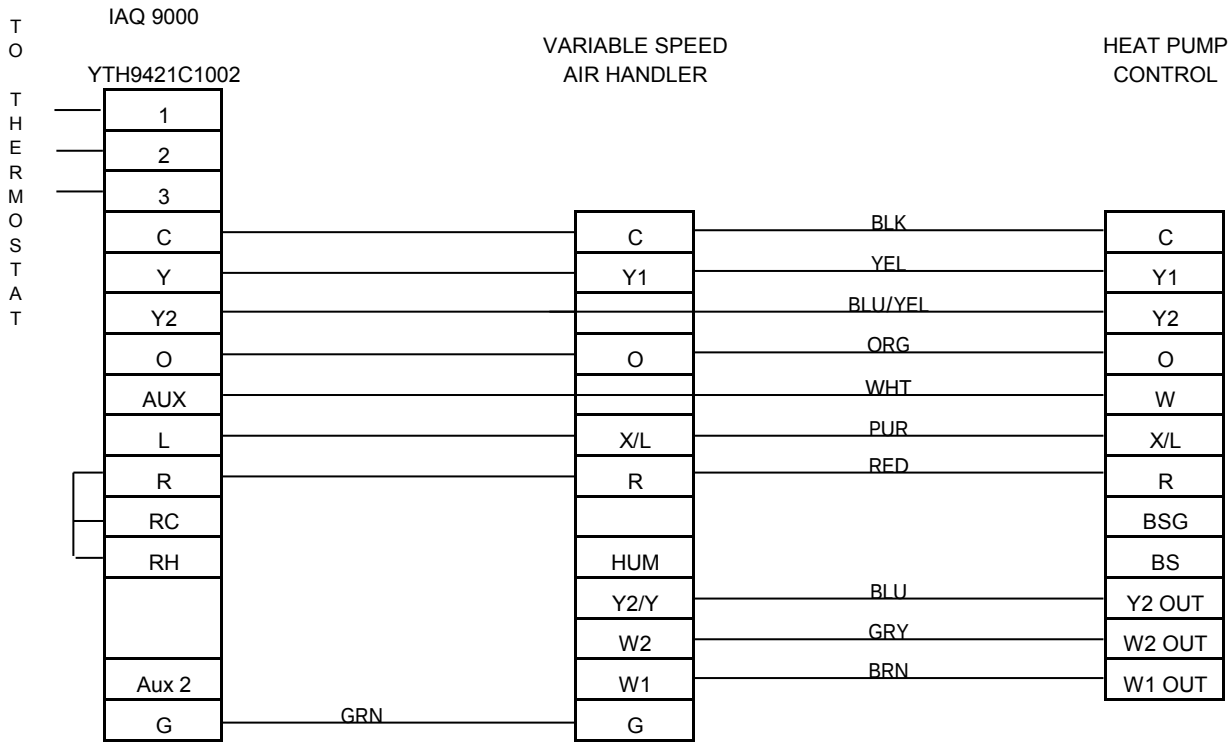


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 1 (tells stat number of cooling stages)
#176, CHANGE TO 2 (tells stat number of heating stages)
#200, CHANGE TO 0 (tells stat back up heat is electric)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump Set Blower Speeds as Required for Proper CFM
Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default
BP (balance point) = 35º is factory setting, but should be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** 1-STAGE HEAT PUMP - 1.5 - 4 Ton
**AHE** SINGLE PIECE X13 AIR HANDLER

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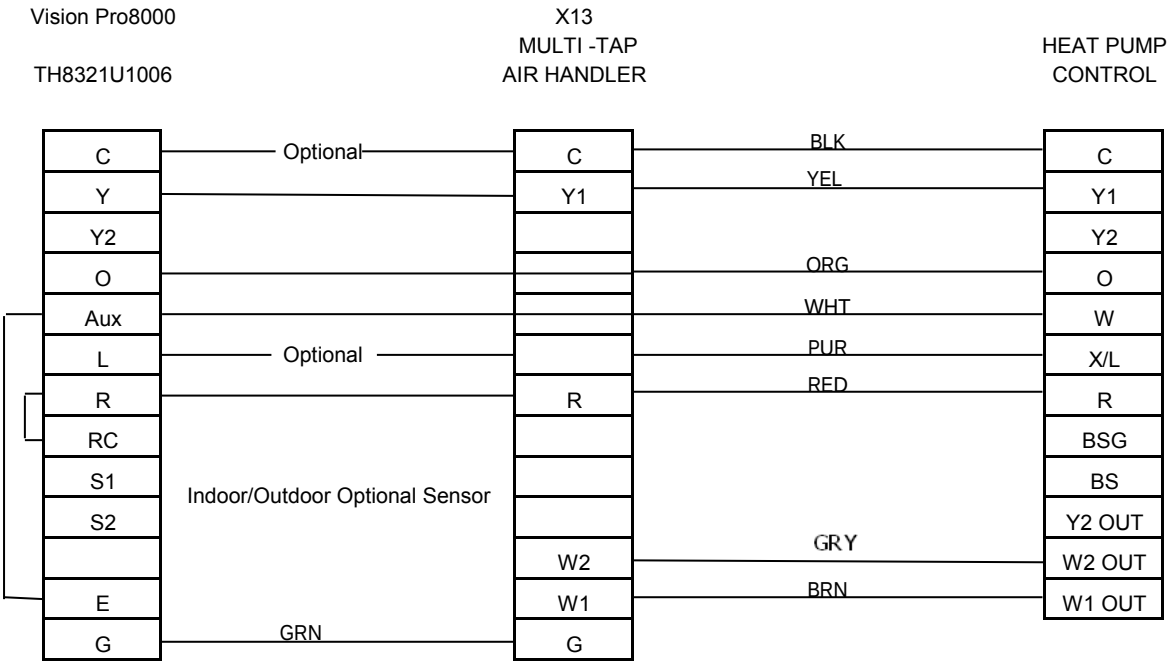


**Critical Installation Set up on Thermostat**
0170 = 7 (tells the stat it's operating at 2 heat and 1 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**
Set Blower Speeds as Required for Proper CFM
Note: W2 only required if 13 KW and above.
**Critical Installation Set up for Heat Pump Jumpers**
Hot Heat Pump = OFF
Y2 Lock = ON/OFF (Optional as a consumer choice)
BP (balance point) = 35º is factory setting, but can be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** 1-STAGE HEAT PUMP - 1.5 - 4 Ton
**MX** TWO PIECE X13 AIR HANDLER

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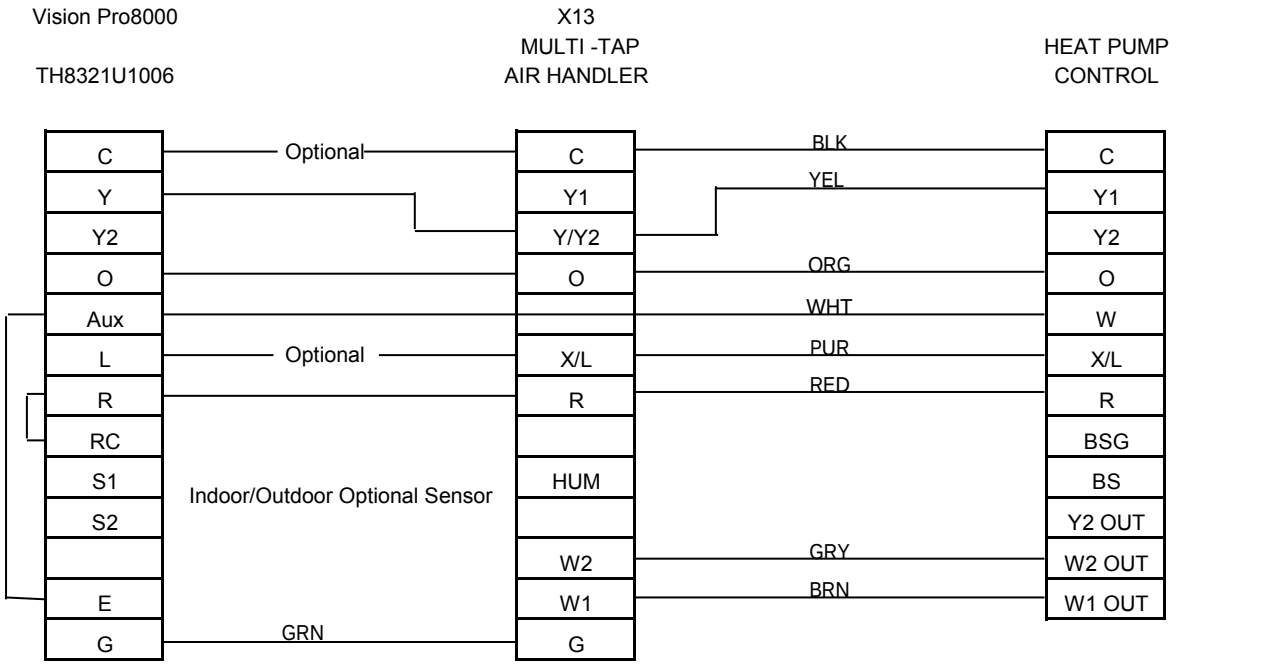


**Critical Installation Set up on Thermostat**
0170 = 7 (tells the stat it's operating at 2 heat and 1 cool stage as a heat pump)
0180 = 1 (Fan is controlled by thermostat)

**Critical Installation Set up for Air Handler Jumpers**
P5 Jumper = Heat  P6 Jumper = Heat Pump
Set Blower Speeds as Required for Proper CFM

**Critical Installation Set up for Heat Pump Jumpers**
Hot Heat Pump = OFF
Y2 Lock = ON/OFF (Optional as a consumer choice)
BP (balance point) = 35º is factory setting, but can be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

| | |
|---|---|
| **YZF** | 1-STAGE HEAT PUMP - 1.5 - 4 Ton |
| **TM9V** | 95% 2 Stage Variable Speed Gas Furnace |
| **TM8V** | 80% 2 Stage Vairable SpeedGas Furnace |

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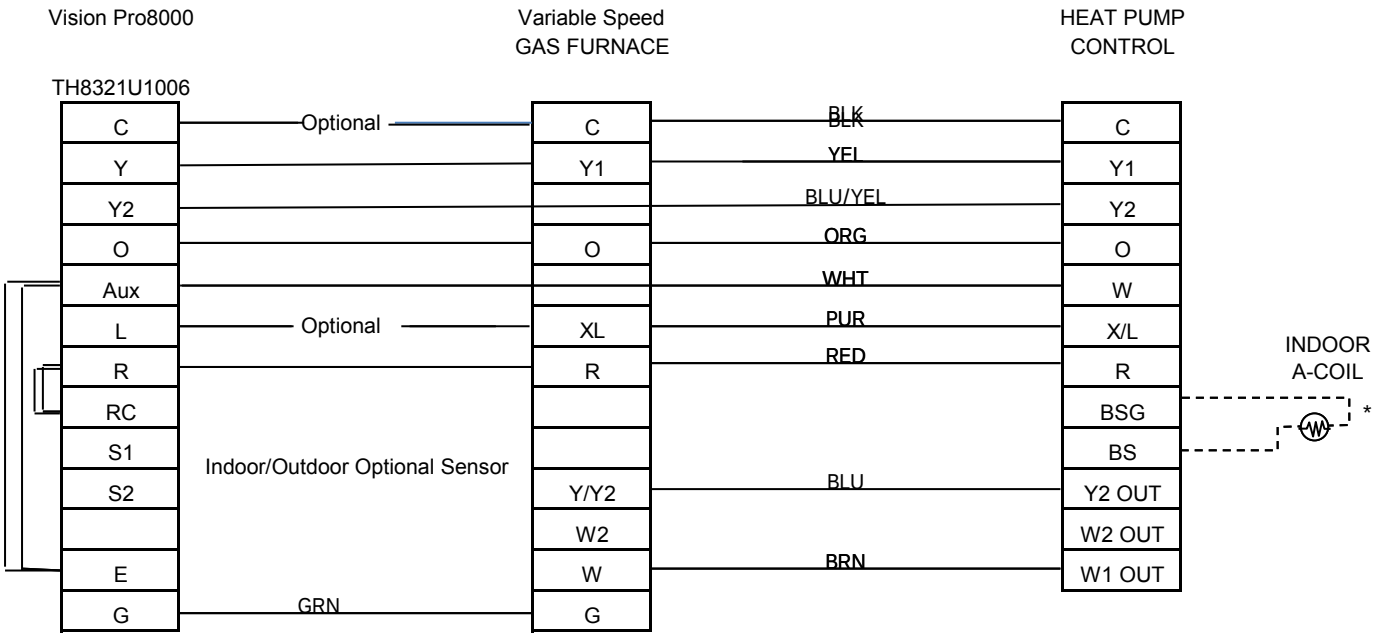


* OPTIONAL BONNET SENSOR

**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

Heat Pump = Y

Set Blower Speeds as Required for Proper CFM. Heat, Cool, Delay, Adjust

Set Staging Jumper for 10,15,or 20 minutes

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

F Fuel = ON

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

| | |
|---|---|
| **YZF** | 2-STAGE HEAT PUMP 5 TON ONLY |
| **AVG** | SINGLE PIECE VARIABLE SPEED AIR HANDLER |
| **MV** | TWO PIECE VARIABLE SPEED AIR HANDLER |

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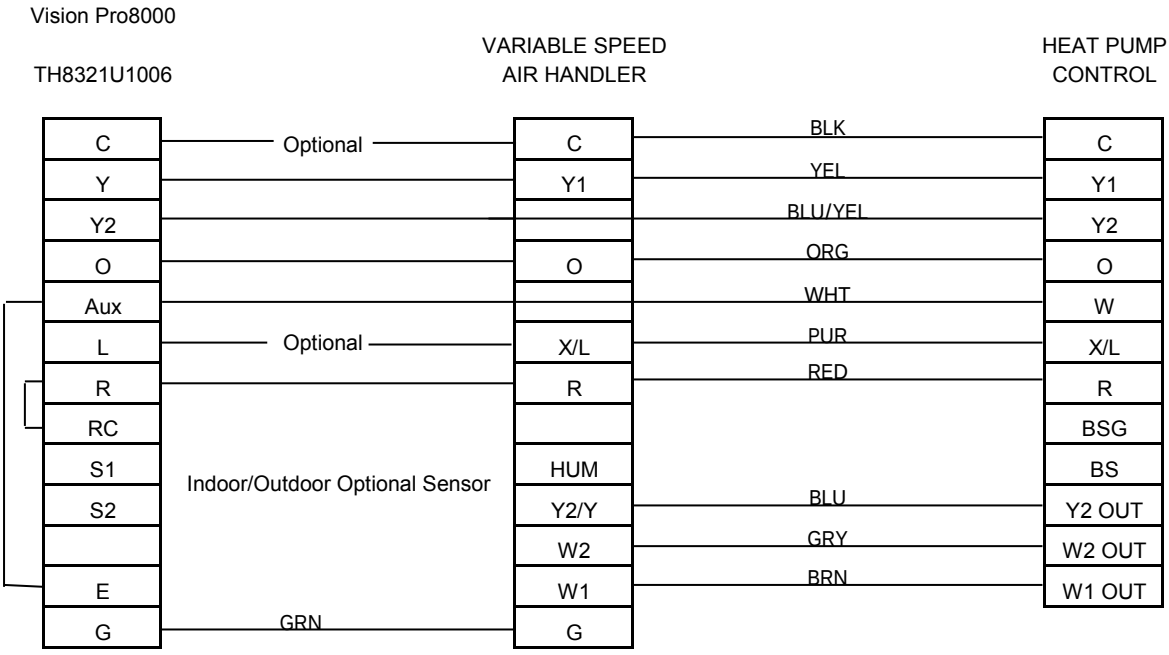


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat its operating 3 heat and 2 cool stages)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** 2-STAGE HEAT PUMP 5 TON ONLY
**AVG** SINGLE PIECE VARIABLE SPEED AIR HANDLER
**MV** TWO PIECE VARIABLE SPEED AIR HANDLER
**HONEYWELL 9000 IAQ THERMOSTAT**

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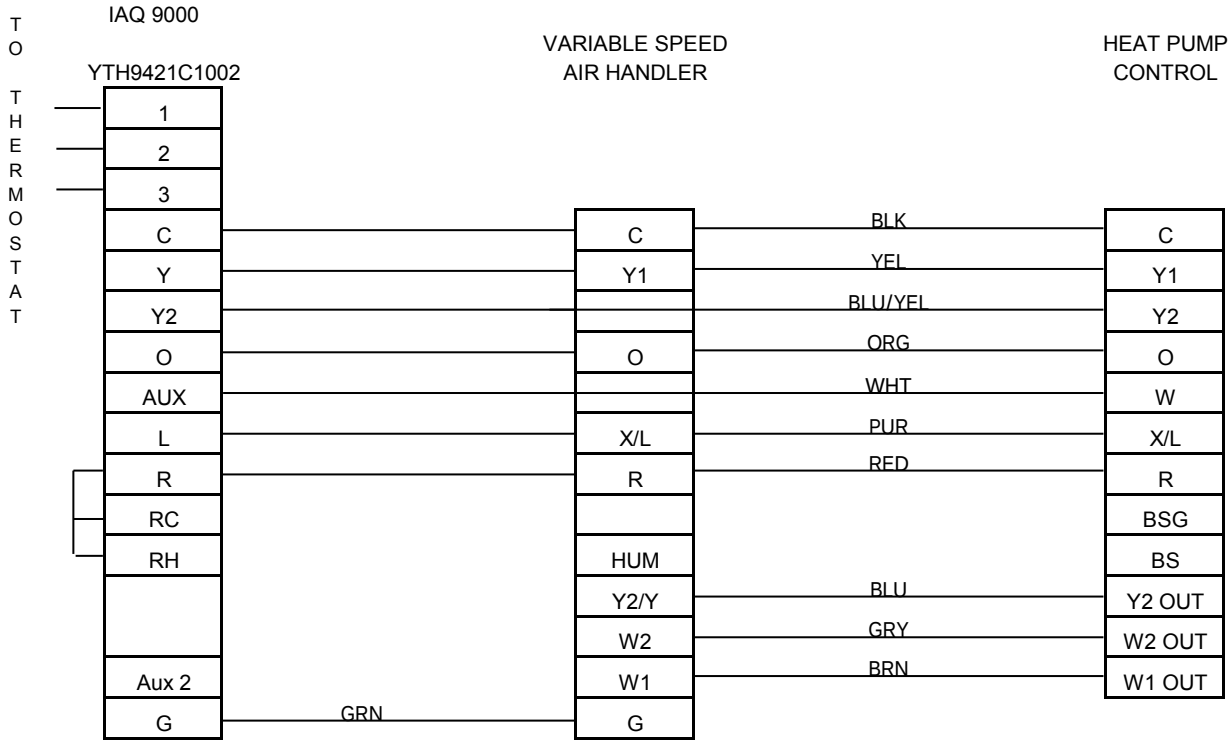


**NOTES:**

If 10-wires between the Air Handler and the Heat Pump is not possible W1 and W2 can be combined at the AH with a jumper eliminating W2 out and staged electric heat.

X/L can be eliminated as the fault codes can be retrived from the board.

Please call for more detailed instructions if the number of wires is an issue.

**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 2 (tells stat number of cooling stages)
#176, CHANGE TO 3 (tells stat number of heating stages)
#200, CHANGE TO 0 (tells stat back up heat is electric)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** **2**-STAGE HEAT PUMP - 5 Ton Only
**AHE** SINGLE PIECE X13 AIR HANDLER

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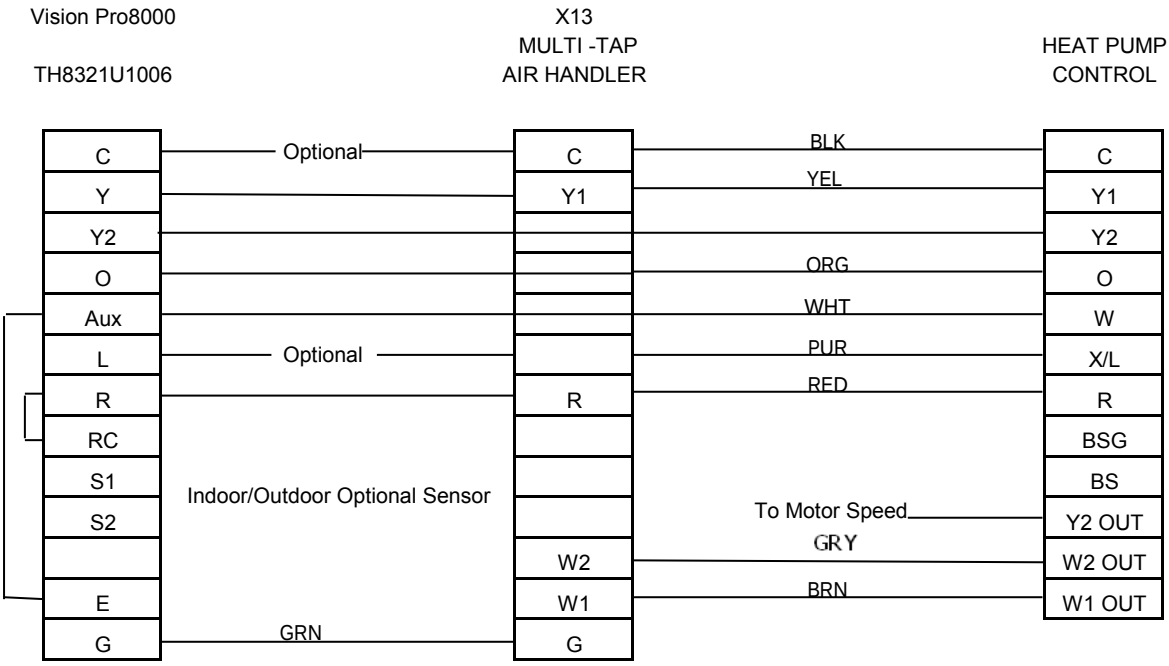


**Critical Installation Set up on Thermostat**
0170 = 12 (tells the stat it's operating at 3 heat and 2 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**
Set Blower Speeds as Required for Proper CFM
Note: W2 only required if 13 KW and above.
Y2 Out must be connected to the X13 motor Speed to deliver 400cfm per ton.

**Critical Installation Set up for Heat Pump Jumpers**
Hot Heat Pump = OFF
Y2 Lock = ON/OFF (Optional as a consumer choice)
BP (balance point) = 35º is factory setting, but can be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** 1-STAGE HEAT PUMP - 5 Ton Only
**MX** TWO PIECE X13 AIR HANDLER

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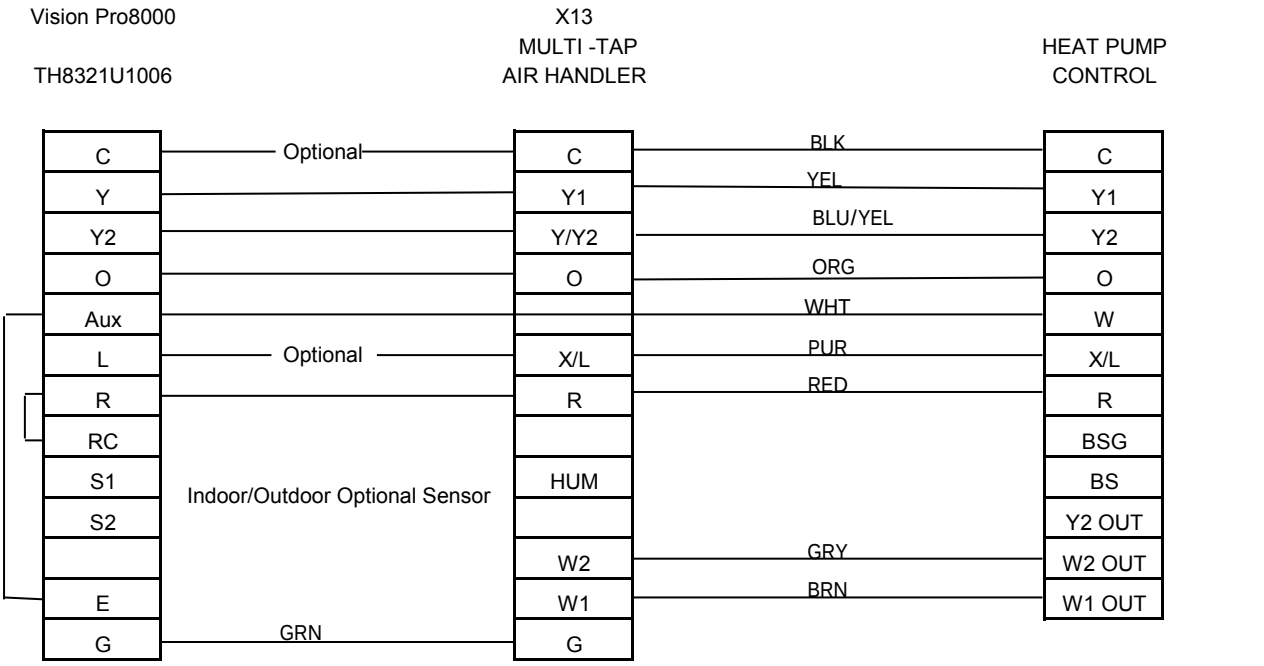


**Critical Installation Set up on Thermostat**
0170 = 12 (tells the stat it's operating at 3 heat and 2 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**
P5 Jumper = Heat P6 Jumper = Heat Pump
Set Blower Speeds as Required for Proper CFM

**Critical Installation Set up for Heat Pump Jumpers**
Hot Heat Pump = OFF
Y2 Lock = ON/OFF (Optional as a consumer choice)
BP (balance point) = 35º is factory setting, but can be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** **2**-STAGE HEAT PUMP - 5 Ton Only
**TM9V** 95% 2 Stage Variable Speed Gas Furnace
**TM8V** 80% 2 Stage Vairable SpeedGas Furnace

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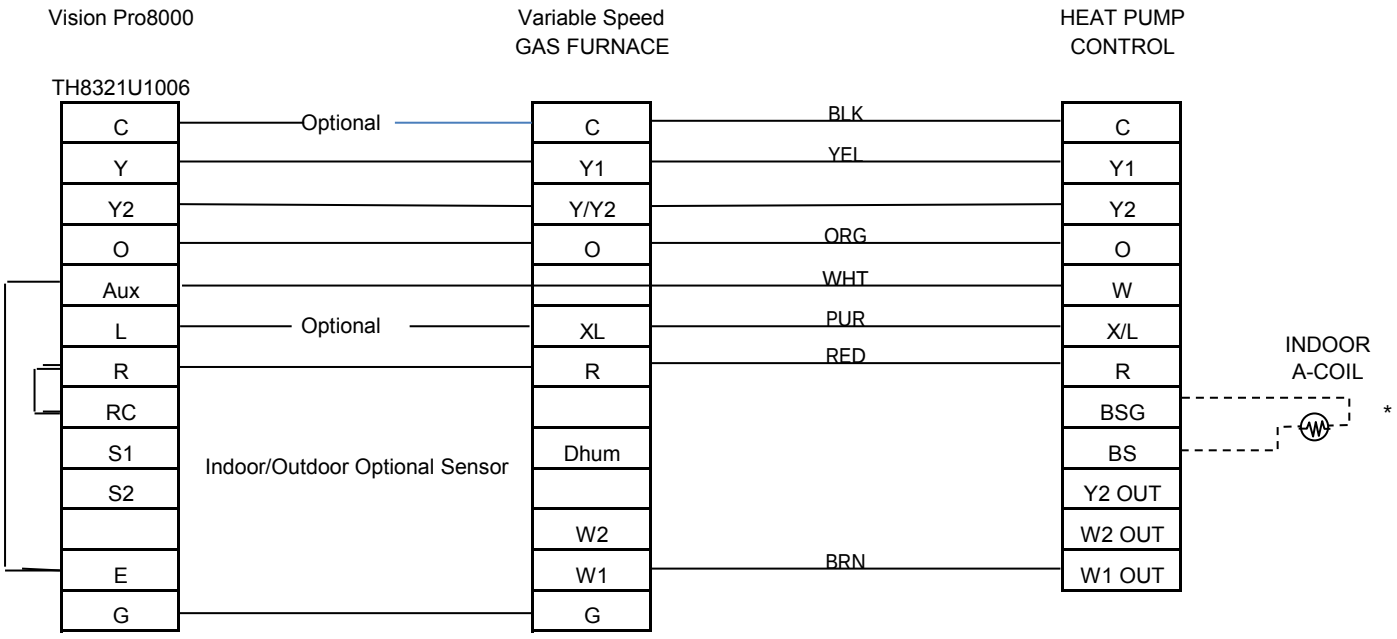


* OPTIONAL BONNET SENSOR

**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat iis operating at 3 heat and 2 cool stage as a heat pump)

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

Heat Pump = Y

Set Blower Speeds as Required for Proper CFM. Heat, Cool, Delay, Adjust

Set Staging Jumper for 10,15,or 20 minutes

**Critical Installation Set up for Heat Pump Jumpers**

F Fuel (Fossil Fuel) = ON (Factory Default is off, however it MUST be changed to ON)

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

Compressor Delay = Change to on for delay when going into and out of defrost

| | |
|---|---|
| **YZF** | **1**-STAGE HEAT PUMP 1.5 - 4 Ton |
| **TM9X** | **Gas Furnace** |
| **TM8X** | **Gas Furnace** |

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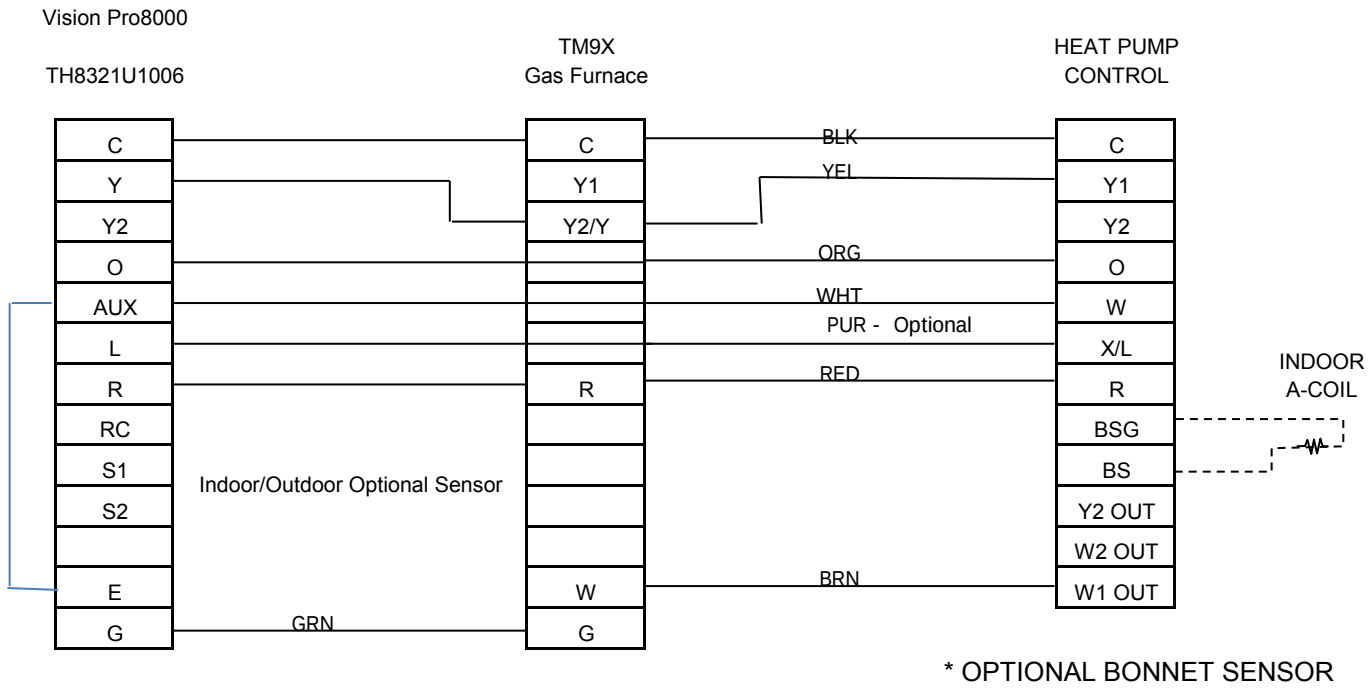


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat system is 2 heat stages and 1 cool stages

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

P4 Jumper = Blower Off Delay  P7 Jumper = Fan Speed Contionus Fan

Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional)  Y2 Lock = ON/OFF (Optional)  Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** **1**-STAGE HEAT PUMP 1.5 - 4 Ton
**TM9X** **Gas Furnace**
**TM8X** **Gas Furnace**
**HONEYWELL 9000 IAQ THERMOSTAT**

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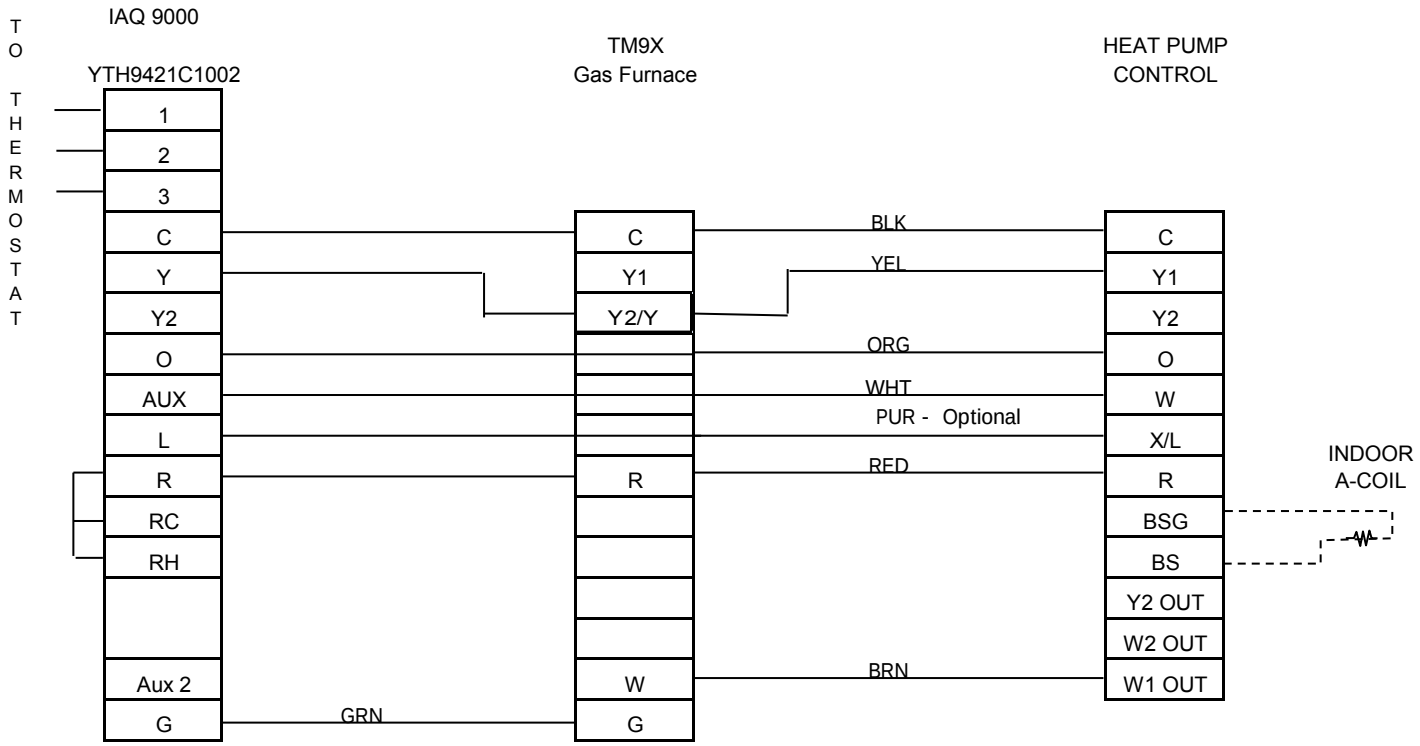


**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 1 (tells stat number of cooling stages)
#176, CHANGE TO 2 (tells stat number of heating stages)
#200, CHANGE TO 1 (tells stat back up heat is fossil fuel)
#210, CHANGE TO 1 (tells stat fossil fuel is controlled external)

**Critical Installation Set up for Furnace Jumpers**

P4 Jumper = Blower Off Delay P7 Jumper = Fan Speed Contionus Fan
Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default
BP (balance point) = 35º is factory setting, but should be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** **2**-STAGE HEAT PUMP 5 - Ton Only
**TM9X** **Gas Furnace**
**TM8X** **Gas Furnace**

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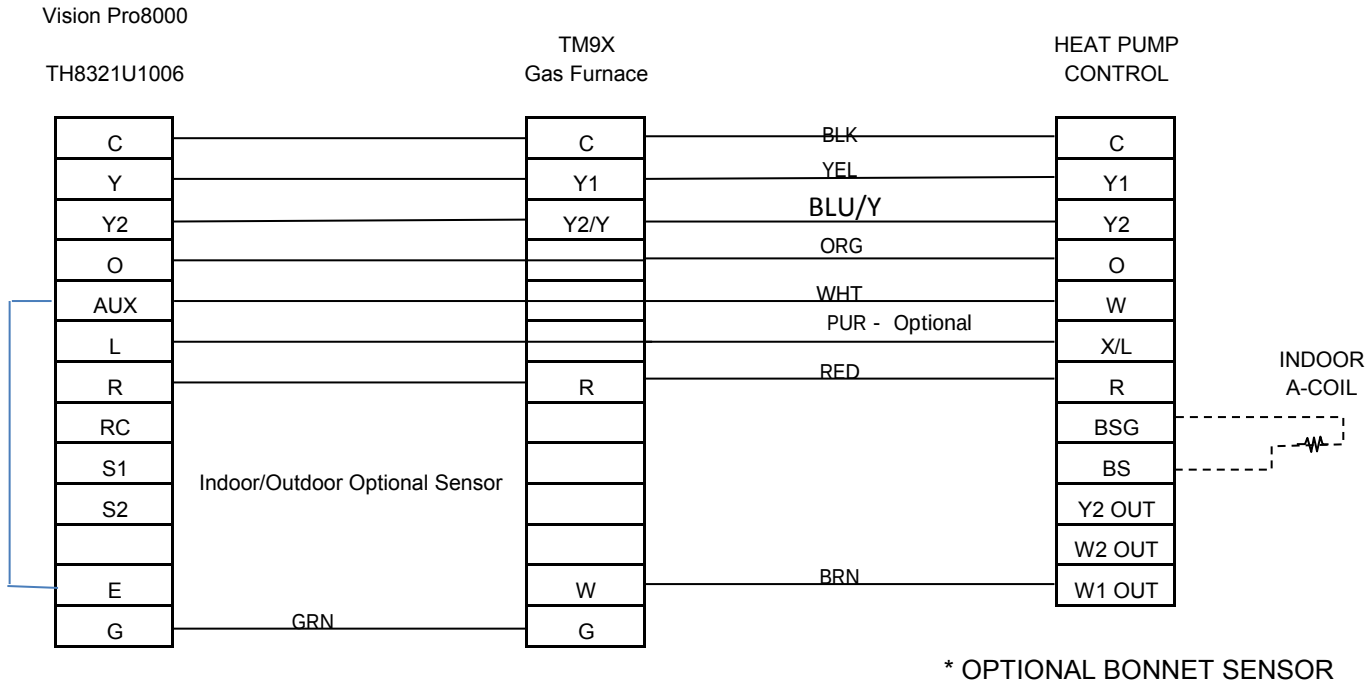


**Critical Installation Set up on Thermostat**

0170 = 12 (Tells the stat system is 3 heat stages and 2 cool stages

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

P4 Jumper = Blower Off Delay  P7 Jumper = Fan Speed Contionus Fan

Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional)  Y2 Lock = ON/OFF (Optional)  Switch Point = 35º is Factory Default

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required

Compressor Delay = Change to on for delay when going into and out of defrost

York System
Wiring Diagram

**YZF** **2**-STAGE HEAT PUMP 5 - Ton Only
**TM9X** **Gas Furnace**
**TM8X** **Gas Furnace**
**HONEYWELL 9000 IAQ THERMOSTAT**

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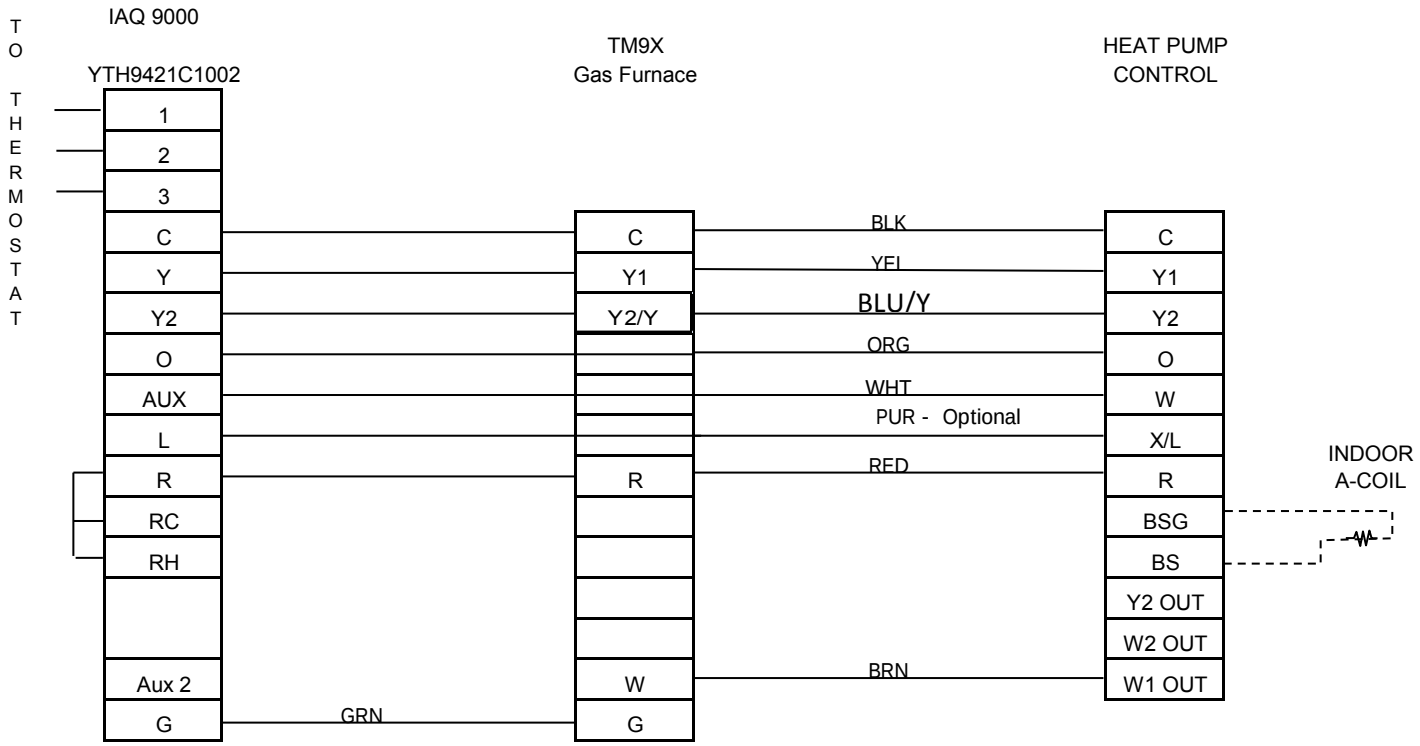


**Critical Installation Set up on Thermostat**

#172, CHANGE TO 2 (tells stat the system in a Heat Pump)
#174, CHANGE TO 2 (tells stat number of cooling stages)
#176, CHANGE TO 3 (tells stat number of heating stages)
#200, CHANGE TO 1 (tells stat back up heat is fossil fuel)
#210, CHANGE TO 1 (tells stat fossil fuel is controlled external)

**Critical Installation Set up for Furnace Jumpers**

P4 Jumper = Blower Off Delay P7 Jumper = Fan Speed Contionus Fan
Set motor speeds as required for proper air flow

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (optional) Y2 Lock = ON/OFF (Optional) Switch Point = 35º is Factory Default
BP (balance point) = 35º is factory setting, but should be set to job specific temperature
LTCO (Low Temperature Cut Out) = ON is factory Setting, this does not have to move unless required
Compressor Delay = Change to on for delay when going into and out of defrost

**YZF** 1-STAGE HEAT PUMP - 1.5 - 4 Ton
**TG9S** 90% MULTI-TAP GAS FURNACE
**TG8S** 80% MULTI-TAP GAS FURNACE

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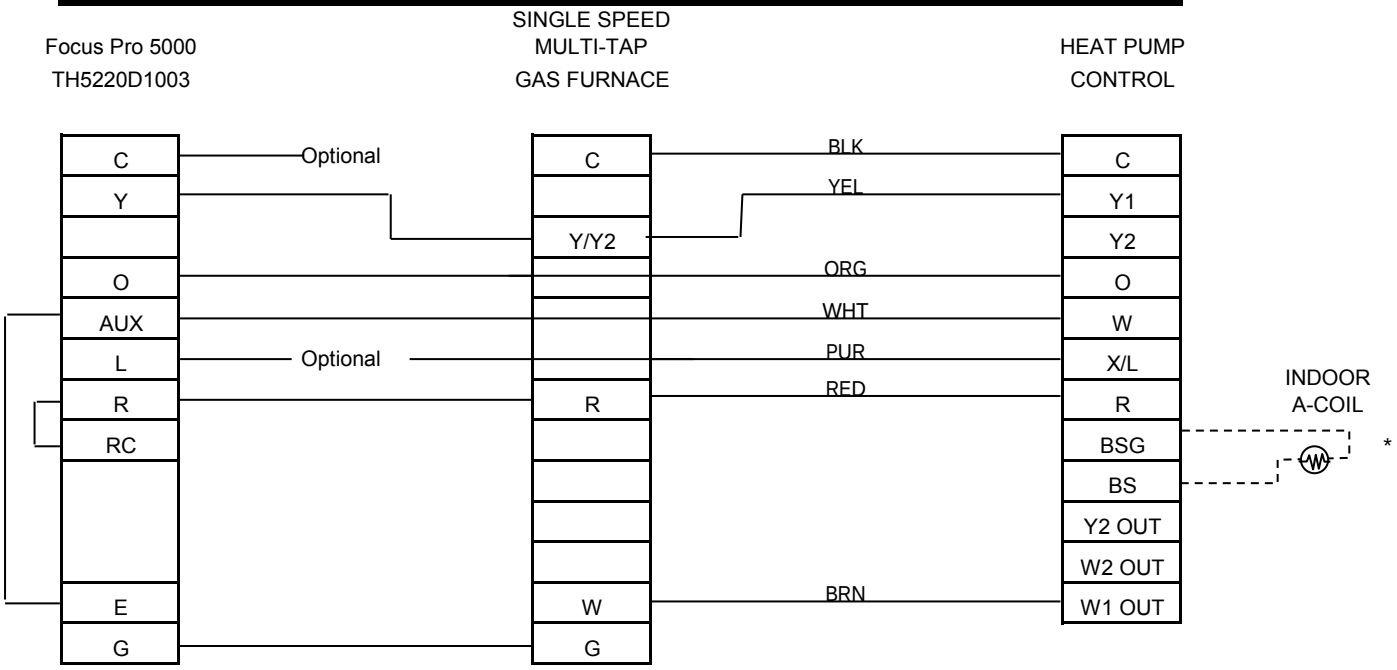


* OPTIONAL BONNET SENSOR

* OPTIONAL BONNET SENSOR

**Critical Installation Set up on Thermostat**

1 = 5 (Tells the stat 2 heat stages and 1 cool stage)

6 = 5- 80% Furnace 3- 90% or Better (Tells stat furnace efficiency for cycle rates)

8 = 5- 80% Furnace 3- 90% or Better (Tells stat furnace efficiency for Emergency cycle rates)

**Critical Installation Set up on Furnace Jumpers**

Set Blower Speeds as Required for Proper CFM

**Critical Installation Set up for Heat Pump Jumpers**

F Fuel (Fossil Fuel) = ON (Factory Default is off, however it MUST be changed to ON)

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

Compressor Delay = Change to on for delay when going into and out of defrost

York System
Wiring Diagram

**YZF** 1-STAGE HEAT PUMP - 1.5 - 4 Ton
**TG9S 95% Single Stage PSC Gas Furnace**
**TG8S 80% Single Stage PSC Gas Furnace**

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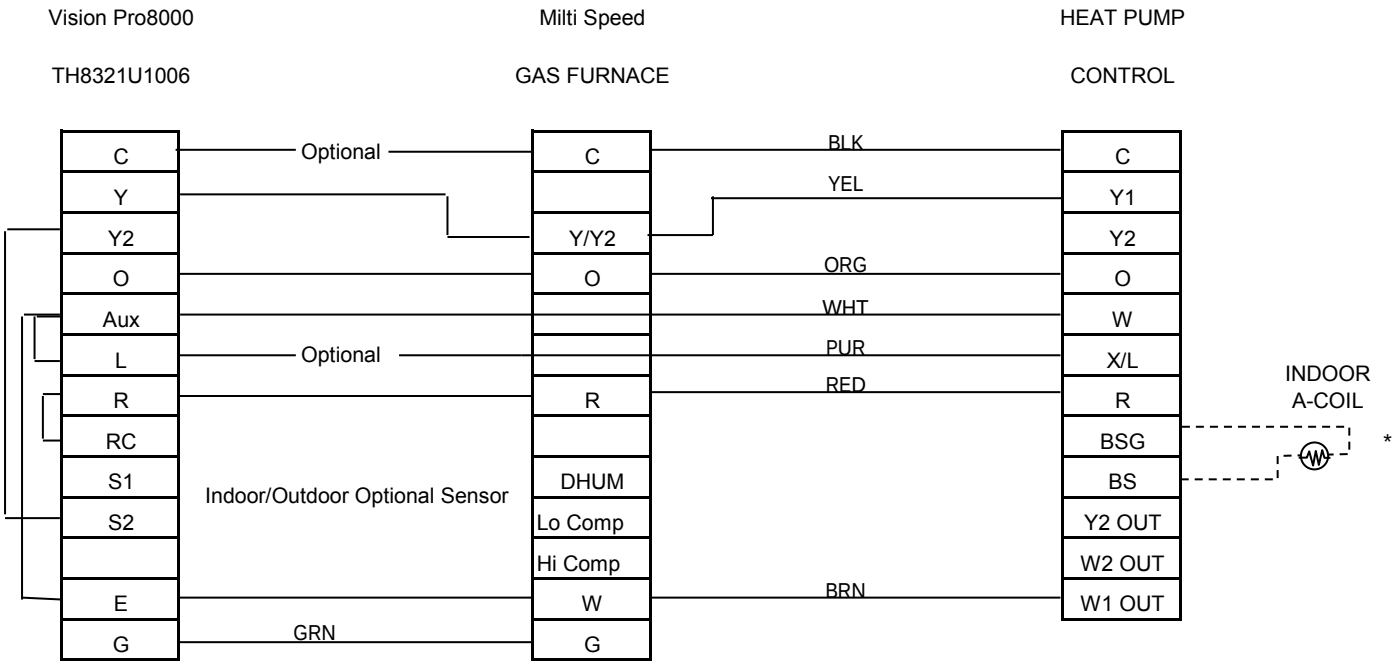


* OPTIONAL BONNET SENSOR

**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

Set Blower Speeds as Required for Proper CFM

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (Factory Default is OFF, however we recommend it be changed to ON)
Y2 Lock = ON/OFF (Factory Default is OFF, however we recommend it be changed to ON)
Switch Point = 35º is Factory Default, change if needed
F Fuel (Fossil Fuel) = ON (Factory Default is off, however it MUST be changed to ON)
BP (balance point) = 35º is factory setting, but should be set to job specific temperature

**CZH** 2-STAGE AIR CONDITIONER
**AVG** SINGLE PIECE VARIABLE SPEED AHU
**MV** TWO PIECE VARIABLE SPEED AHU

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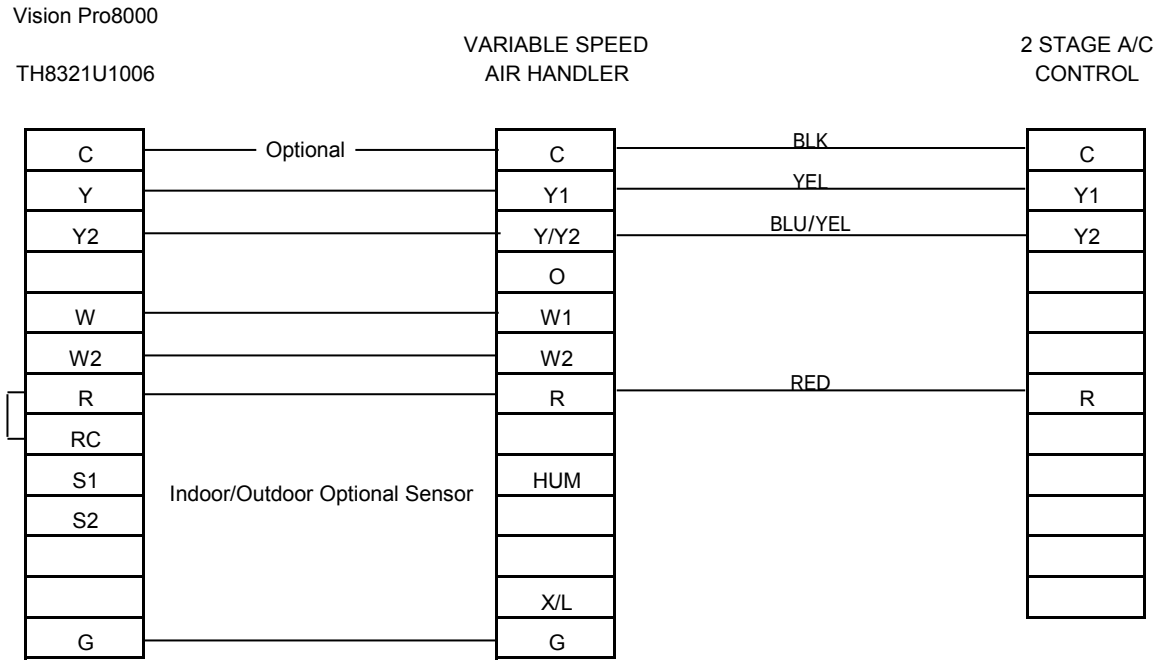


**Critical Installation Set up on Thermostat**

0170 = 8 (tells stat 2 heat stages and 2 cooling stages)

0180= 1 (tells stat system is using electric furnace)

0240= 9 ( tells stat 1st stage heating cycle rate)

0250= 9 (tells stat 2nd stage heating cycle rate)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat P6 Jumper = Heat Pump

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Air Conditioning Jumpers**

Y2 Lock = ON/OFF (Optional)

**CZH** 2-STAGE AIR CONDITIONER
**AVG** SINGLE PIECE VARIABLE SPEED AHU
**MV** TWO PIECE VARIABLE SPEED AHU

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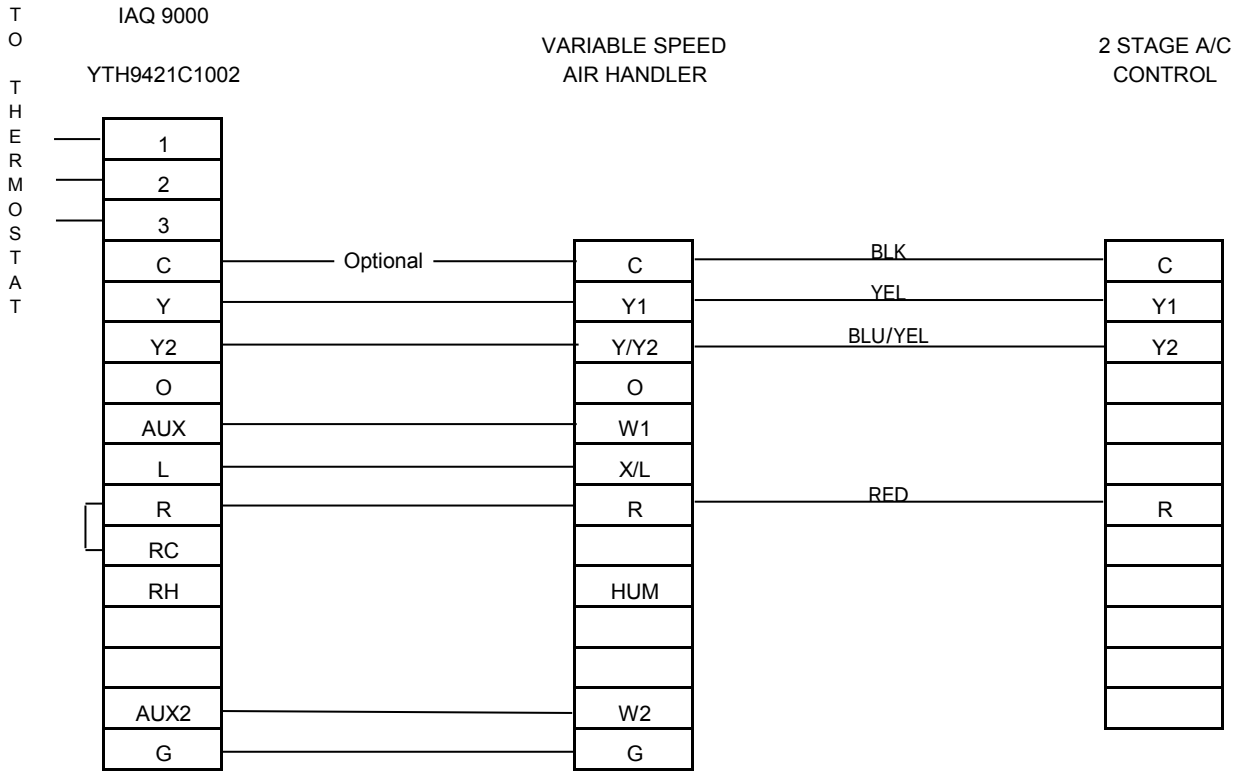


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 2 (tells stat number of cooling stages)

0176= 2 ( tells stat # of heating stages)

0180= 2 (tells stat equipment controls fan)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Air Conditioning Jumpers**

Y2 Lock = ON/OFF (Optional)

| | |
|---|---|
| **CZH** | 2-STAGE AIR CONDITIONER |
| **YP9C** | 95% MODULATING VARIABLE SPEED GAS FURNACE |

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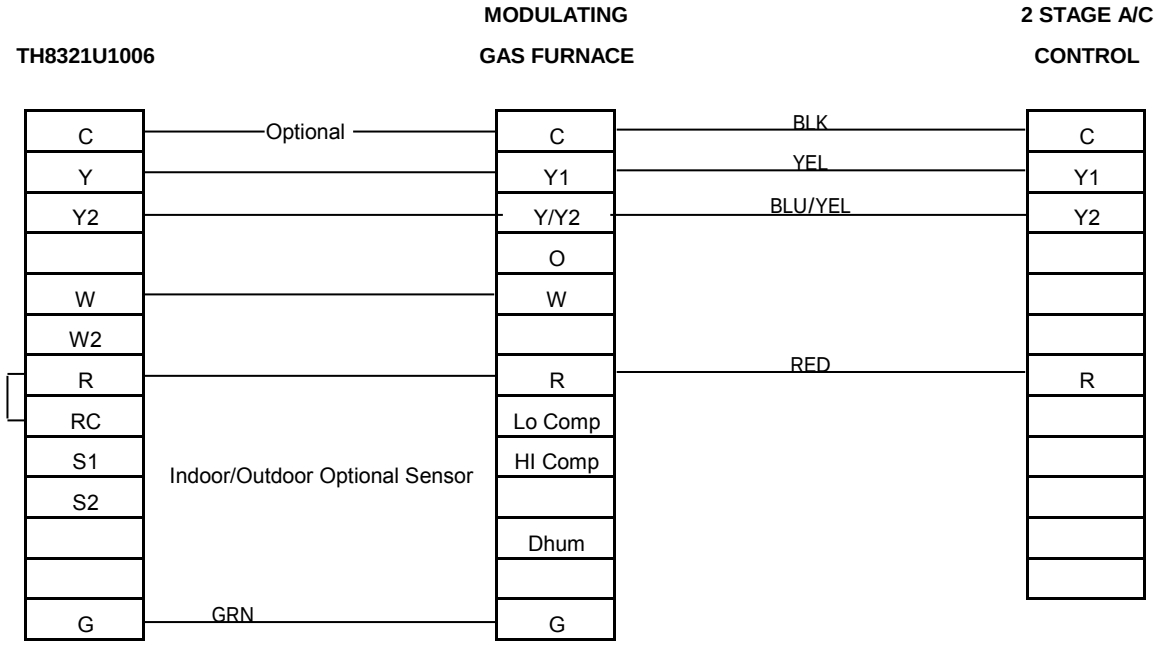
**Vision Pro8000**




**Critical Installation Set up on Thermostat**

0170 = 10 (tells stat 1 heat stage and 2 cooling stages)

0240= 3 (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

1. If zoning is applied, set the "Zone Control" jumper to YES which eliminates the RUN 2 cycle of the furnace which normally begins when the call from the thermostat ends.
2. Set Blower Speeds as Required for Proper CFM

**CZH** 2-STAGE AIR CONDITIONER
**YP9C** 95% MODULATING VARIABLE SPEED GAS FURNACE

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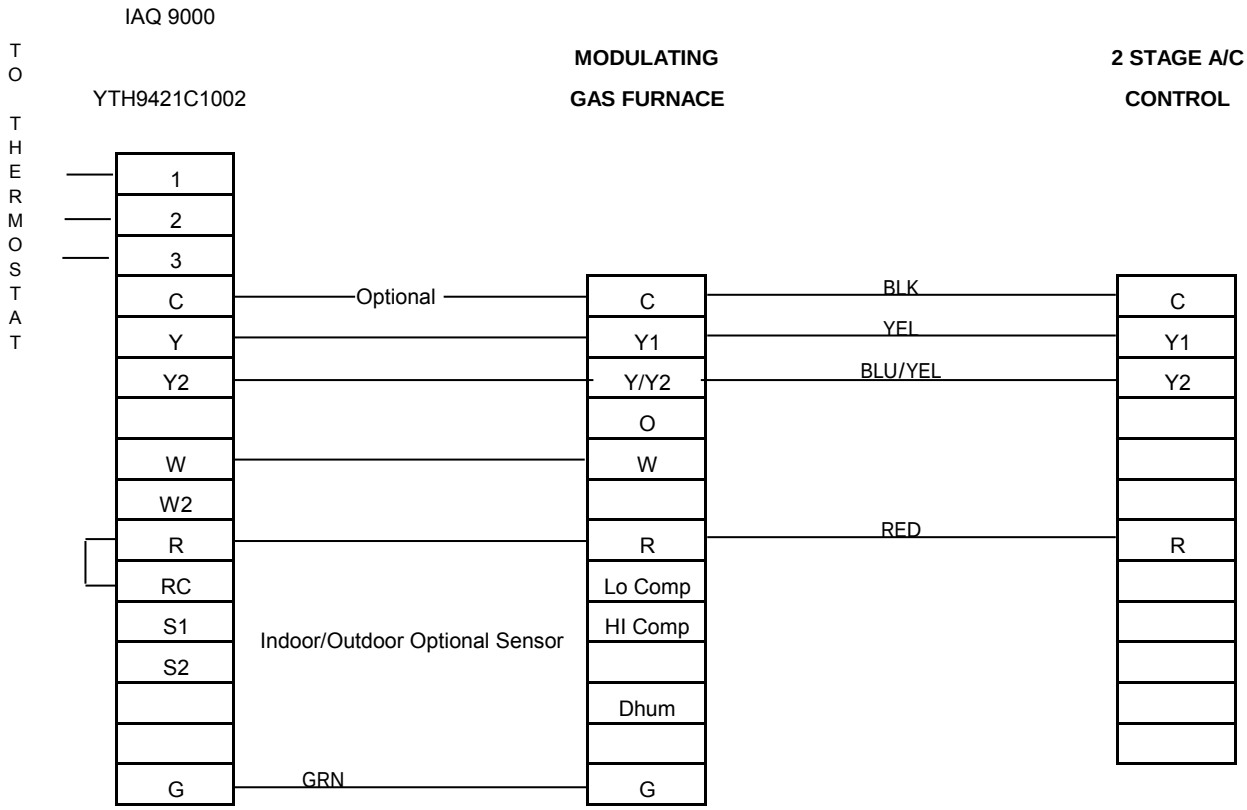


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 2 (tells stat number of cooling stages)

0176= 1 ( tells stat # of heating stages)

0180= 0 (tells stat equipment controls fan)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM. J9 = Cool, J16 = Adj, J15 = Delay

| | |
|---|---|
| **CZH** | 2-STAGE AIR CONDITIONER |
| **TM9V** | 95% 2 Stage Variable Speed Gas Furnace |
| **TM8V** | 80% 2 Stage Vairable Speed Gas Furnace |

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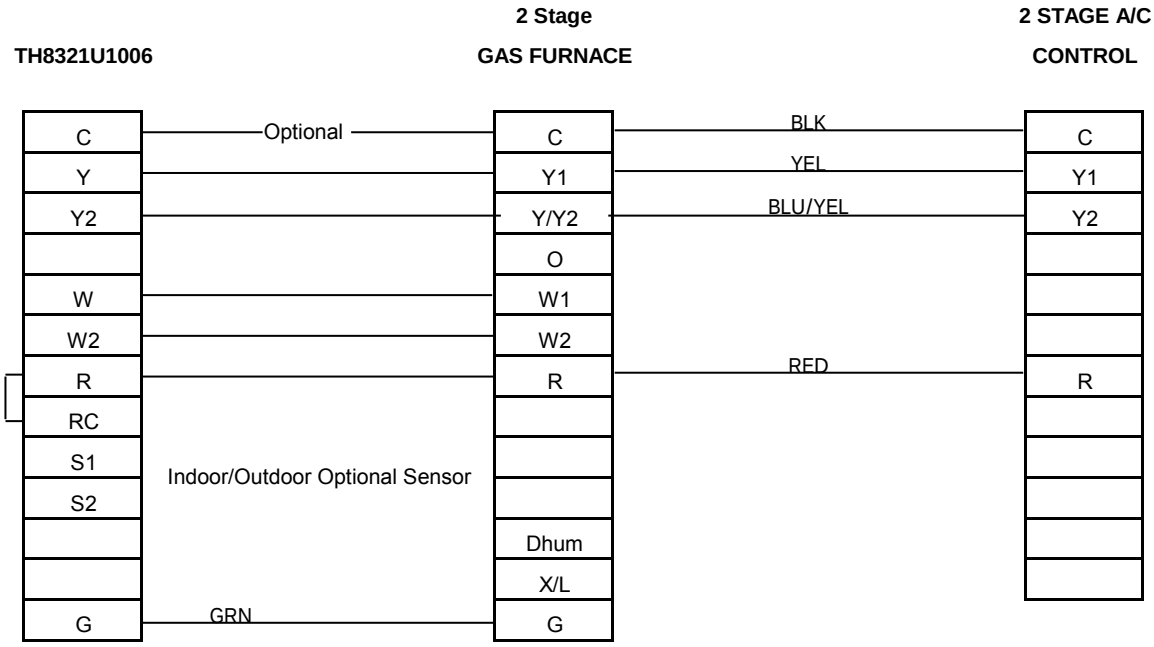
**Vision Pro8000**




**Critical Installation Set up on Thermostat**

0170 = 8 (tells stat 2 heat stage and 2 cooling stages)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

| | |
|---|---|
| **CZH** | 2-STAGE AIR CONDITIONER |
| **TM9V** | 95% 2 Stage Variable Speed Gas Furnace |
| **TM8V** | 80% 2 Stage Vairable Speed Gas Furnace |

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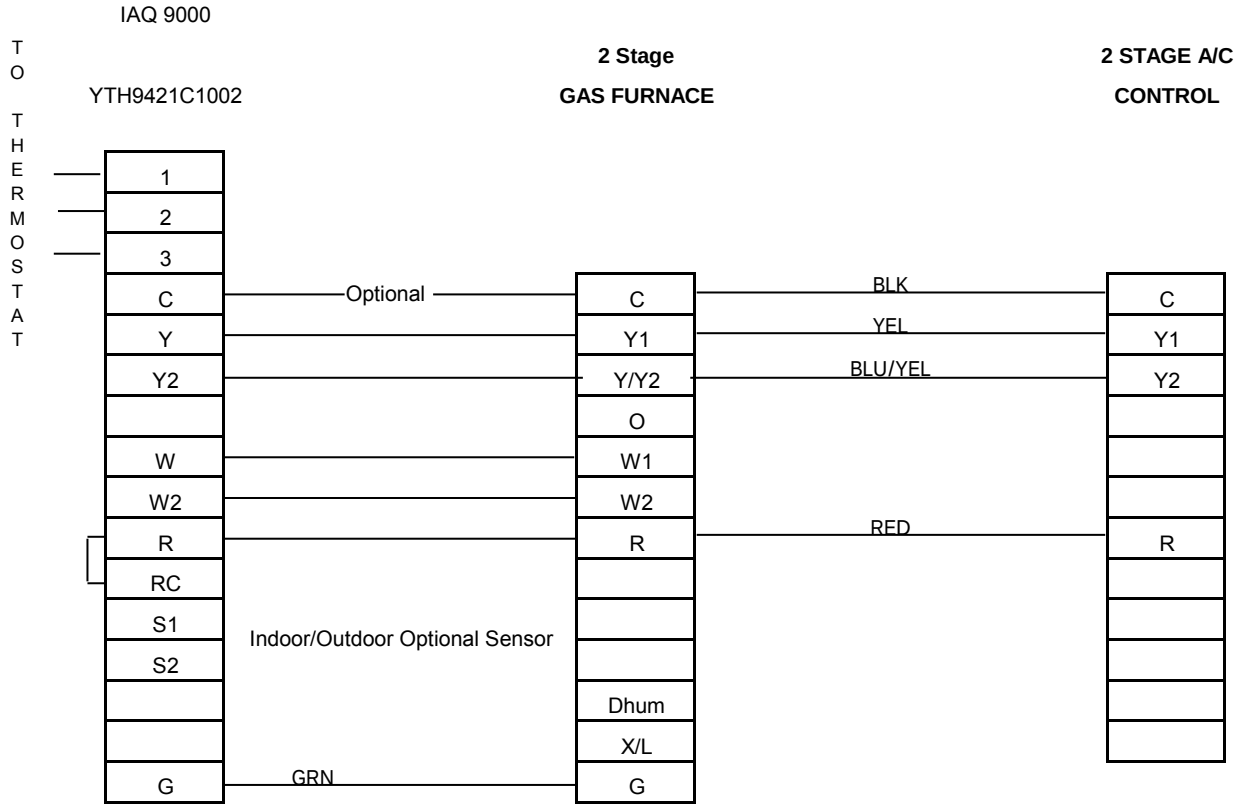


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 2 (tells stat number of cooling stages)

0176= 2 ( tells stat # of heating stages)

0180= 0 (tells stat equipment controls fan)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

| | |
|---|---|
| **CZH** | 2-STAGE AIR CONDITIONER |
| **TM9X** | 95% Single Stage X13 Gas Furnace |
| **TM8X** | 80% Single Stage X13 Gas Furnace |

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**Vision Pro8000**

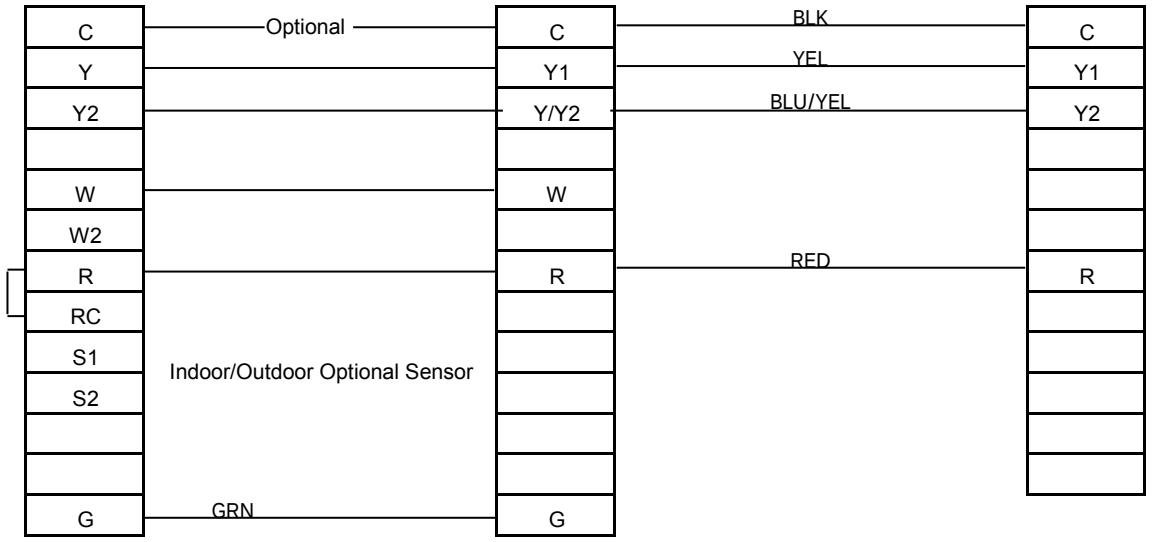
**TH8321U1006**

**Single Stage**

**GAS FURNACE**

**2 STAGE A/C**

**CONTROL**




**Critical Installation Set up on Thermostat**

0170 = 10 (tells stat 1 heat stage and 2 cooling stages)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

**CZH** 2-STAGE AIR CONDITIONER - R-410a
**TG9S** 90% SINGLE STAGE MULTI-TAP GAS FURNACE
**TG8S** 80% SINGLE STAGE MULTI-TAP GAS FURNACE
**OIL FURNACES -** *VERIFY WITH ACTUAL FURNACE MANUFACTURER'S WIRING DIAGRAM*

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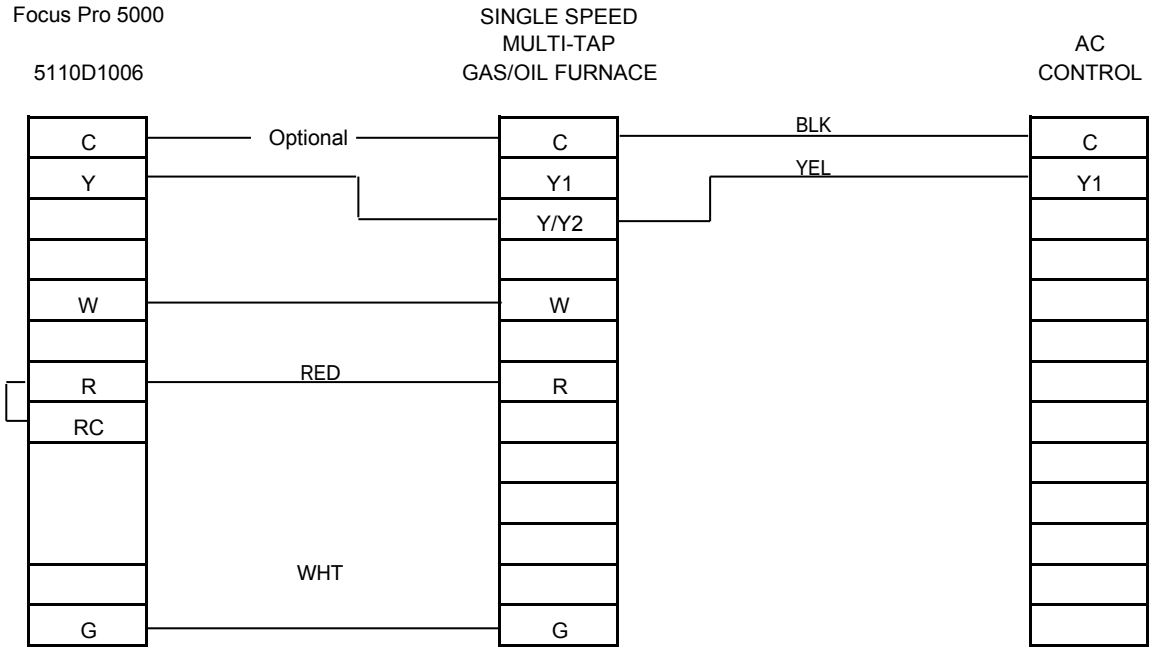


**Critical Installation Set up on Thermostat**

Parameter 5 = 5 for 80% Furnace or 3 for 90% or Better (tells stat cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

| | |
|---|---|
| **CZF** | 1-STAGE AIR CONDITIONER - R-410a |
| **AVG** | SINGLE PIECE VARIABLE SPEED AIR HANDLER |
| **MV** | TWO PIECE VARIABLE SPEED AIR HANDLER |

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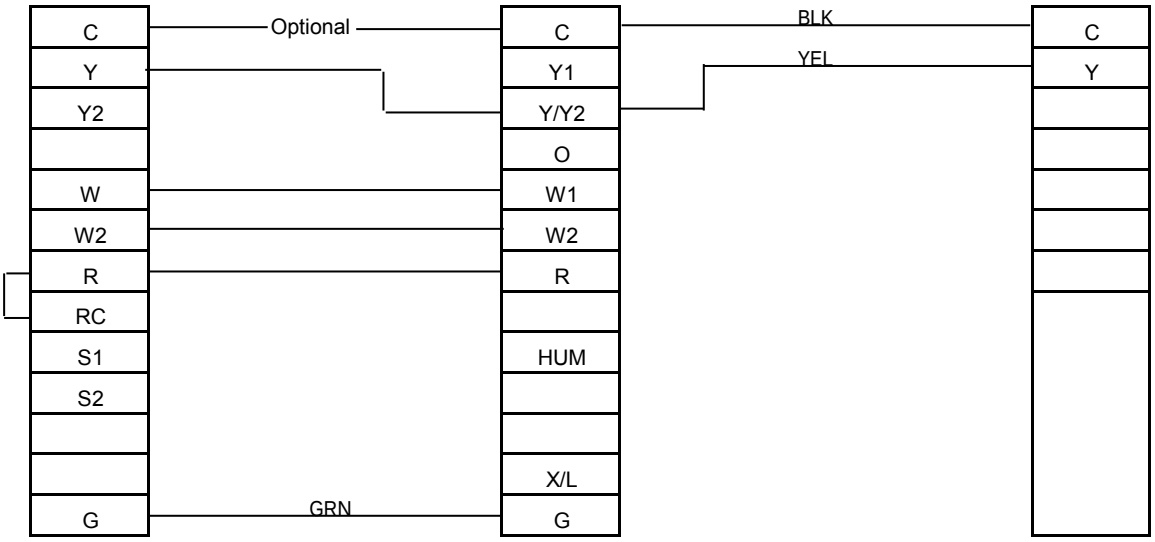
**Vision Pro8000**

**TH8321U1006**

VARIABLE SPEED AIR HANDLER

**AIR CONDITIONER CONTROL**




**Critical Installation Set up on Thermostat**

0170 = 9 (tells stat 2 heat stage and 1 cooling stages)

0240= 9 (tells stat 1st stage heaing cycle rate)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**Critical Installation Set up for Heat Pump Jumpers**

Y2 Lock = ON/OFF (Optional)

**CZF** 1-STAGE AIR CONDITIONER - R-410a
**AVG** SINGLE PIECE VARIABLE SPEED AIR HANDLER
**MV** TWO PIECE VARIABLE SPEED AIR HANDLER

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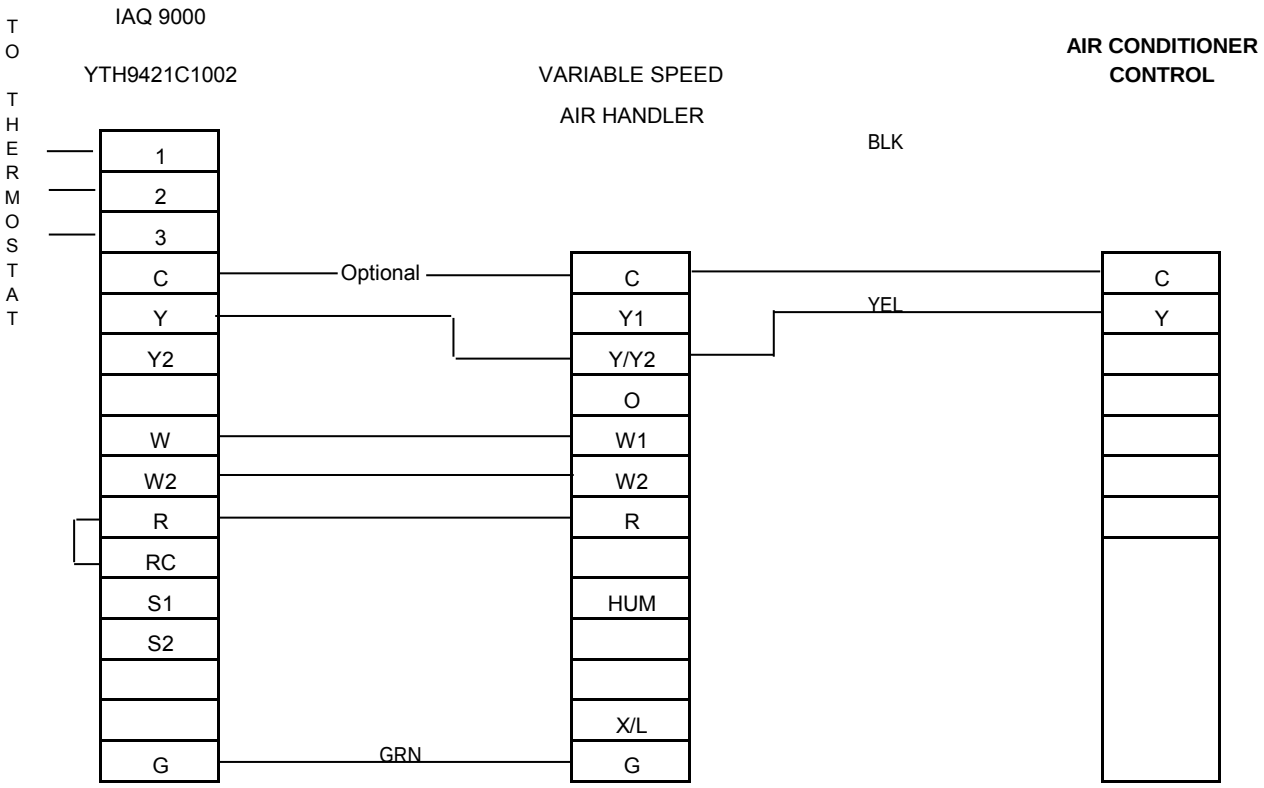


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 1 (tells stat number of cooling stages)

0176= 2 ( tells stat # of heating stages)

0180= 2 (tells stat equipment controls fan)

**Critical Installation Set up for Air Handler Jumpers**

P5 Jumper = Heat

Set Blower Speeds as Required for Proper CFM. P9 = Heat,P10 = Delay,P8 = Cool,P11 = Adj.

**CZF** 1-STAGE AIR CONDITIONER
**AHE** SINGLE PIECE X13 AIR HANDLER

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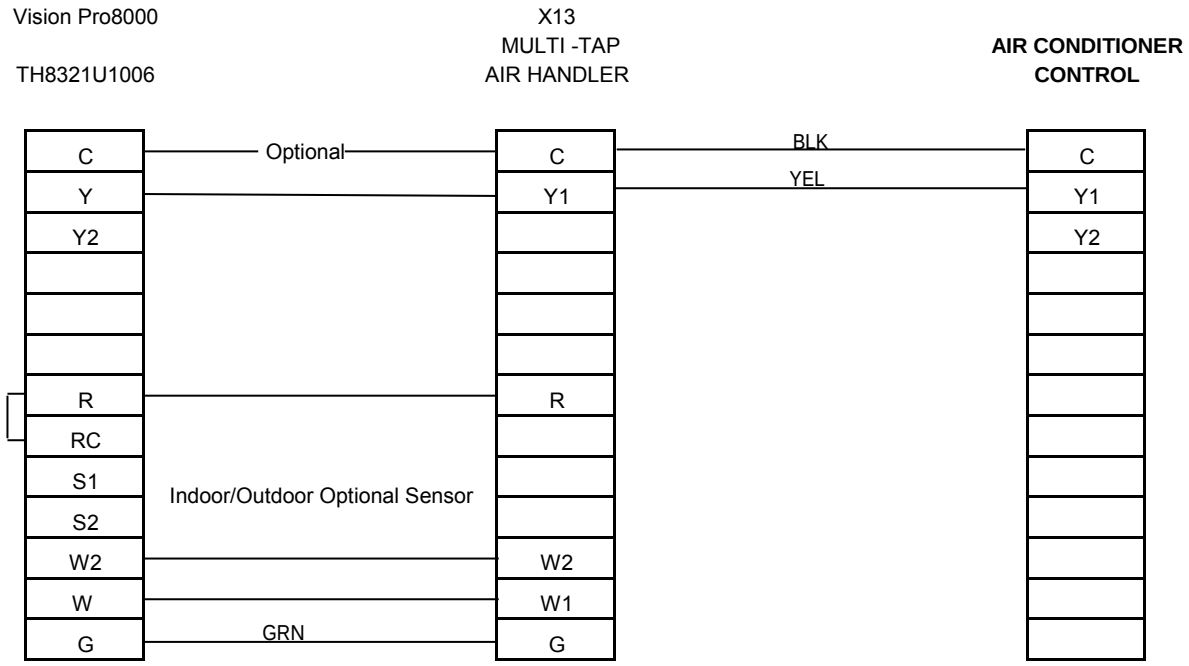


**Critical Installation Set up on Thermostat**
0170 = 9 (tells the stat it's operating at 2 heat and 1 cool stage Conventional)

**Critical Installation Set up for Air Handler Jumpers**
Set Blower Speeds as Required for Proper CFM
Note: W2 only required if 13 KW and above.

**CZF** 1-STAGE AIR CONDITIONEER
**MX** TWO PIECE X13 AIR HANDLER

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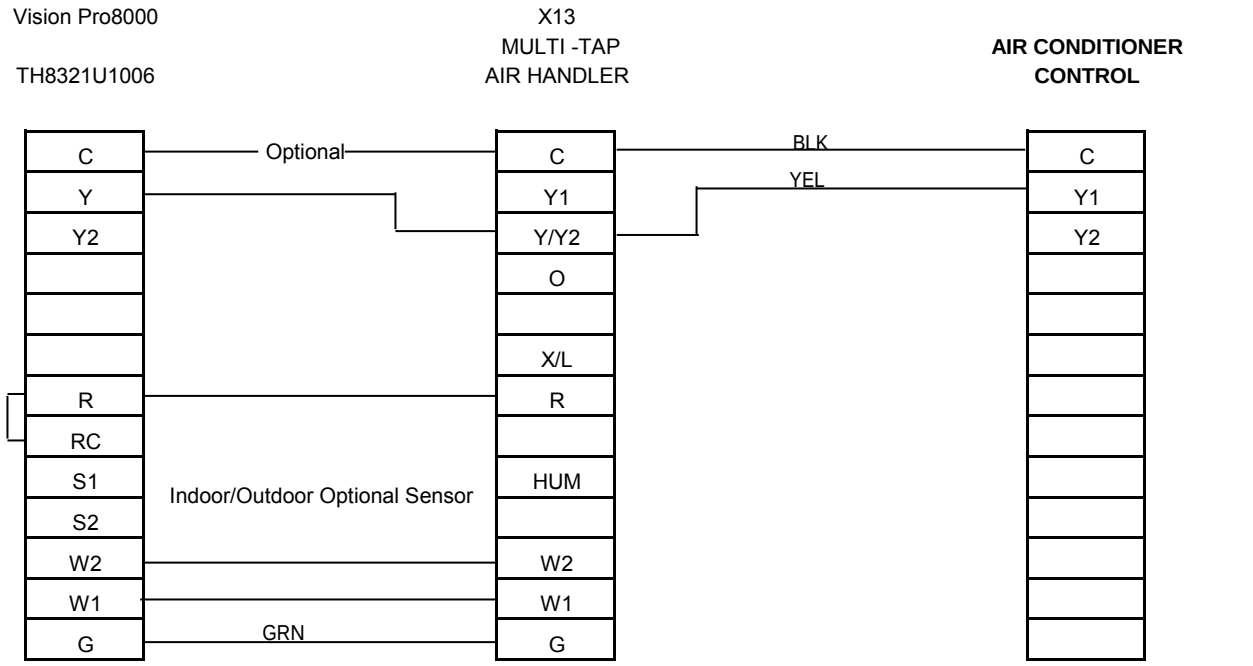


**Critical Installation Set up on Thermostat**
0170 = 9 (tells the stat it's operating at 2 heat and 1 cool stage Conventional)

**Critical Installation Set up for Air Handler Jumpers**
P5 Jumper = Heat
Set Blower Speeds as Required for Proper CFM

| | |
|---|---|
| **CZF** | 1-STAGE AIR CONDITIONEER |
| **TM9V** | 95% 2 Stage Variable Speed Gas Furnace |
| **TM8V** | 80% 2 Stage Vairable SpeedGas Furnace |

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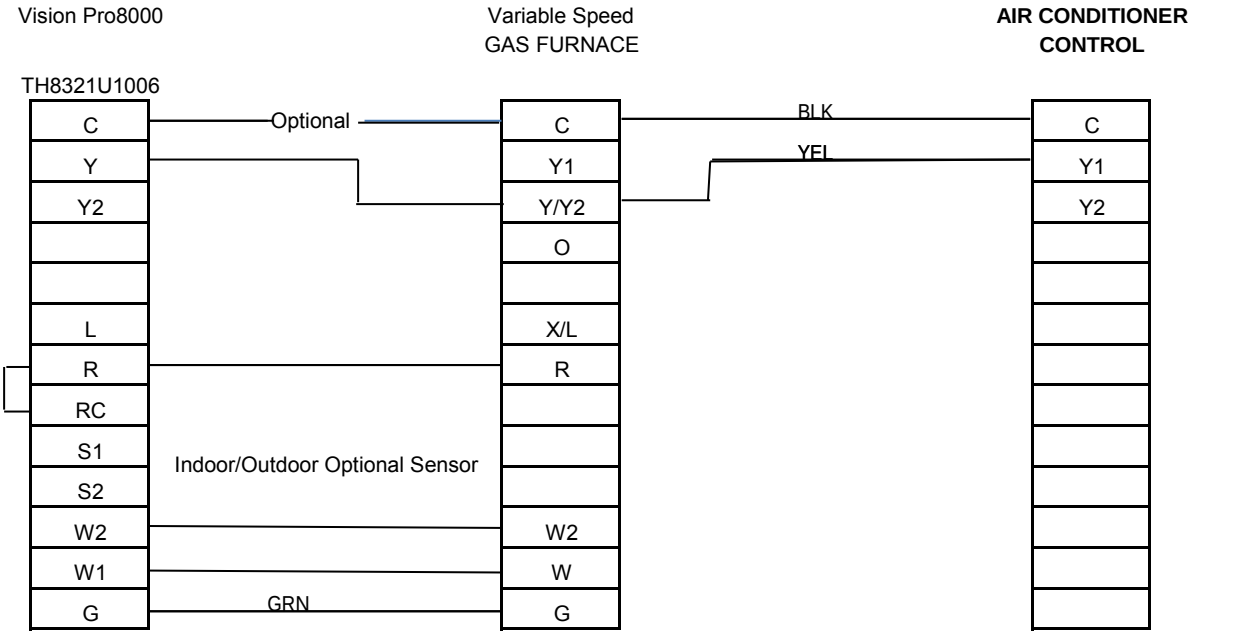


**Critical Installation Set up on Thermostat**

0170 = 9 (Tells the stat iis operating at 2 heat and 1 cool Conventional)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set up on Furnace Jumpers**

Set Blower Speeds as Required for Proper CFM. Heat, Cool, Delay, Adjust

| | |
|---|---|
| **CZF** | 1-STAGE AIR CONDITIONEER |
| **TM9V** | 95% 2 Stage Variable Speed Gas Furnace |
| **TM8V** | 80% 2 Stage Vairable SpeedGas Furnace |

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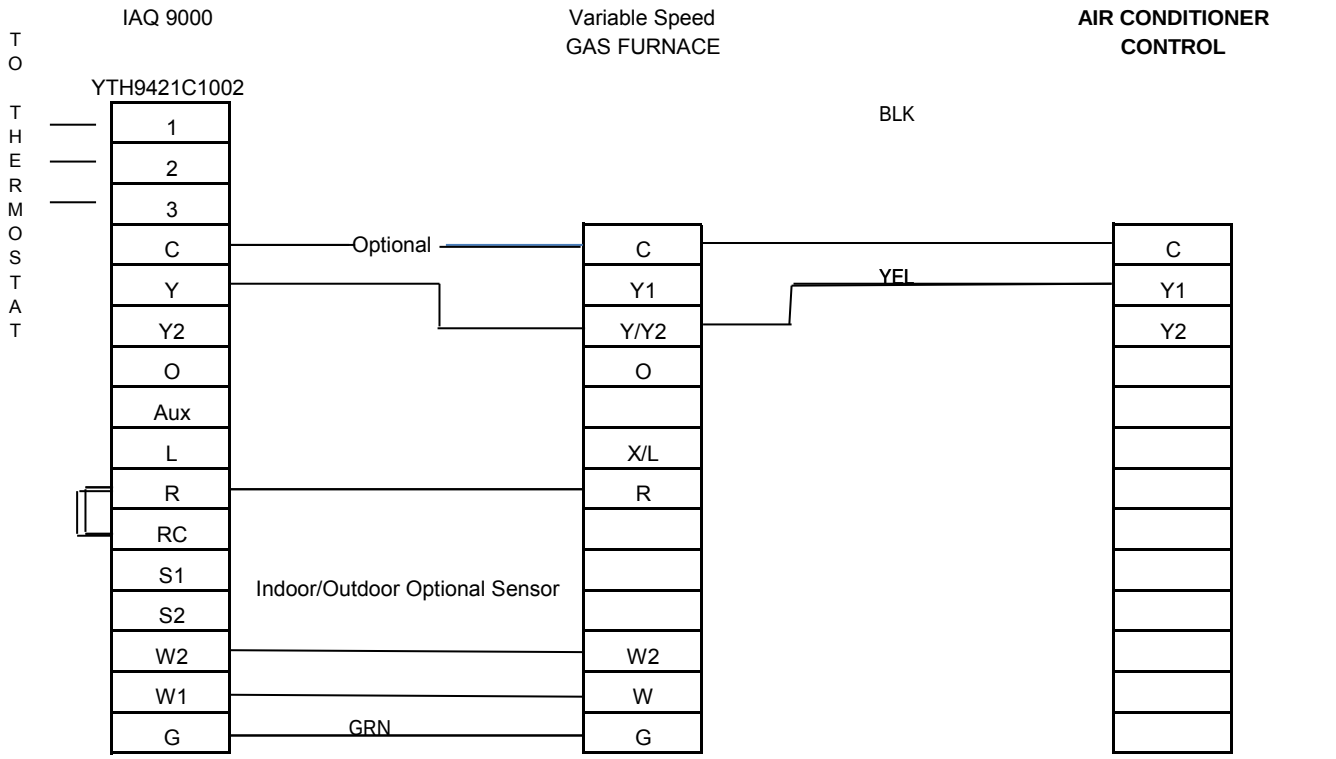


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 1 (tells stat number of cooling stages)

0176= 2 ( tells stat # of heating stages)

0180= 0 (tells stat equipment controls fan)

**Critical Installation Set up on Furnace Jumpers**

Set Blower Speeds as Required for Proper CFM. Heat, Cool, Delay, Adjust

| | |
|---|---|
| **CZF** | 1-STAGE AIR CONDITIONER |
| **TM9X** | 95% Single Stage X13 Gas Furnace |
| **TM8X** | 80% Single Stage X13 Gas Furnace |

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**Vision Pro8000**

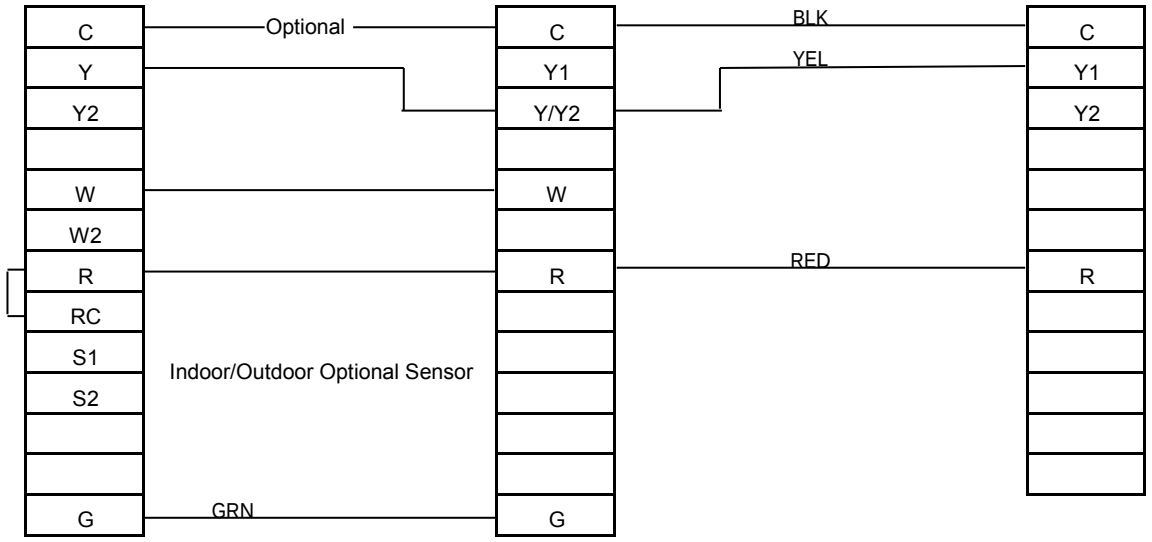
**TH8321U1006**

**Single Stage**

**GAS FURNACE**

**2 STAGE A/C**

**CONTROL**




**Critical Installation Set up on Thermostat**

0170 = 1 (tells stat 1 heat stage and 1 cooling stages)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

**CZF** 1-STAGE AIR CONDITIONER - R-410a
**TG9S** 90% SINGLE STAGE MULTI-TAP GAS FURNACE
**TG8S** 80% SINGLE STAGE MULTI-TAP GAS FURNACE
**OIL FURNACES -** *VERIFY WITH ACTUAL FURNACE MANUFACTURER'S WIRING DIAGRAM*

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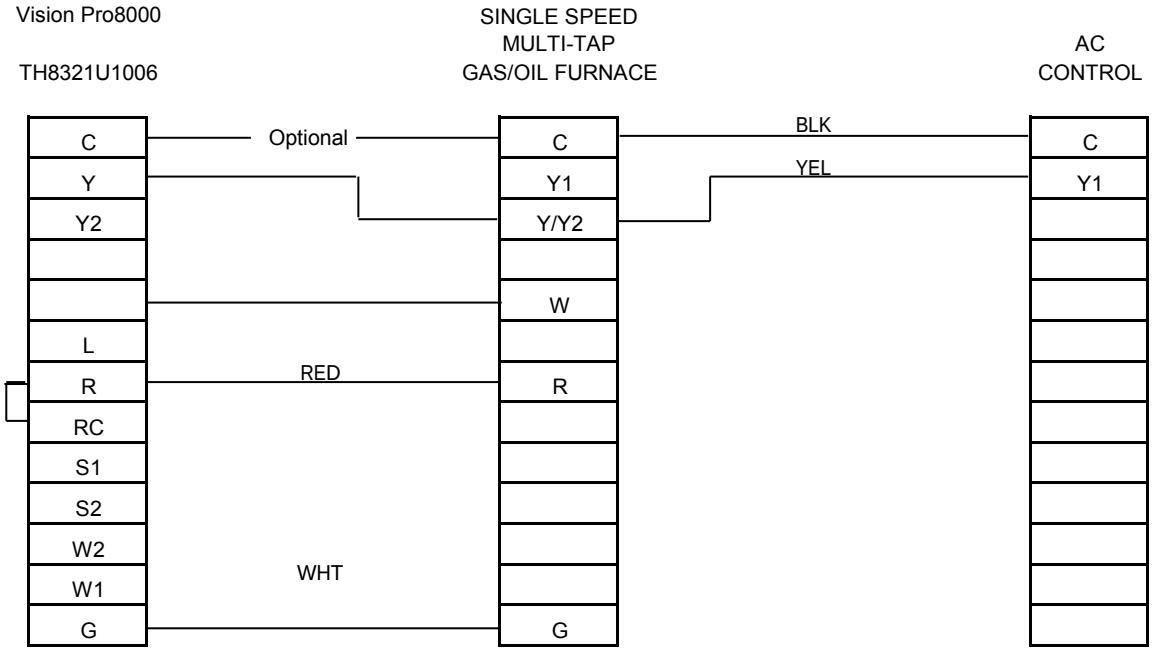


**Critical Installation Set up on Thermostat**

0170 = 9 (Tells the stat iis operating at 2 heat and 1 cool Conventional)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

**CZF** 1-STAGE AIR CONDITIONER - R-410a
**TG9S** 90% SINGLE STAGE MULTI-TAP GAS FURNACE
**TG8S** 80% SINGLE STAGE MULTI-TAP GAS FURNACE
**OIL FURNACES -** *VERIFY WITH ACTUAL FURNACE MANUFACTURER'S WIRING DIAGRAM*

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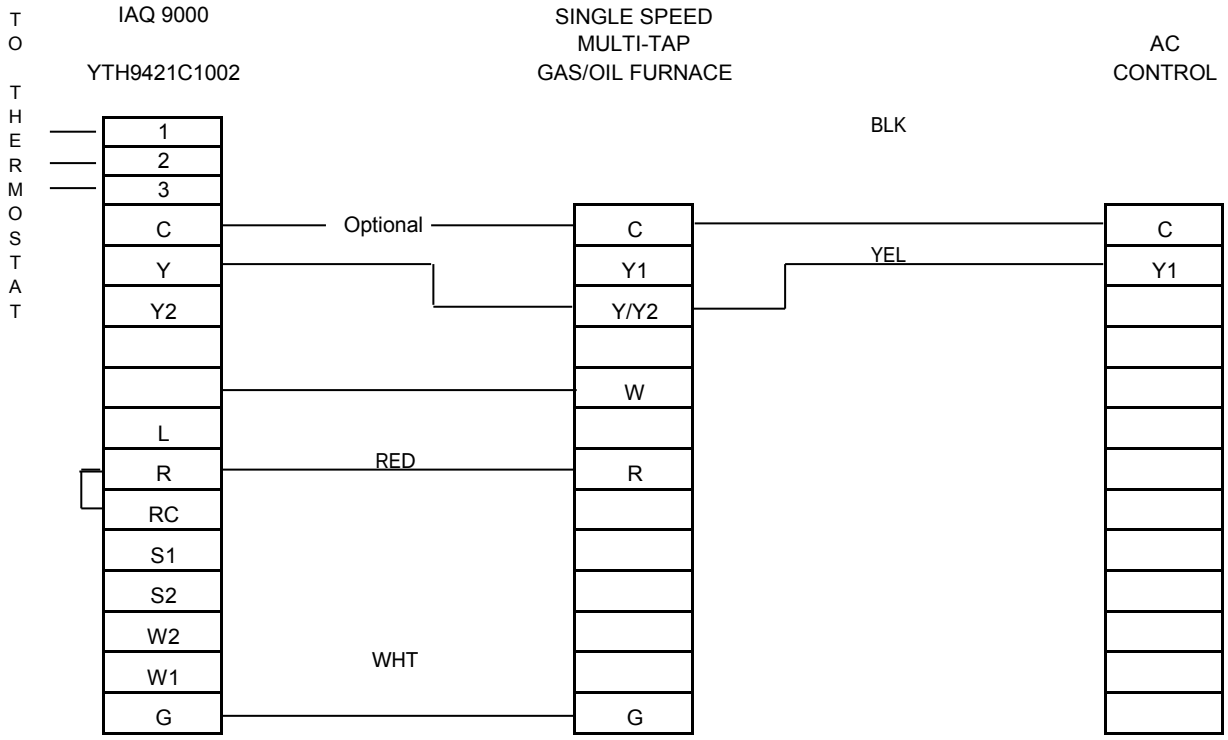


**Critical Installation Set up on Thermostat**

0172 = 1 (tells stat Conventional System)

0174= 1 (tells stat number of cooling stages)

0176= 1 ( tells stat # of heating stages)

0180= 0 (tells stat equipment controls fan)

**Critical Installation Set up on Furnace Jumpers**

Set Blower Speeds as Required for Proper CFM

**YHJF** 1-STAGE HEAT PUMP - 1.5 - 4 Ton
**AHE** SINGLE PIECE X13 AIR HANDLER

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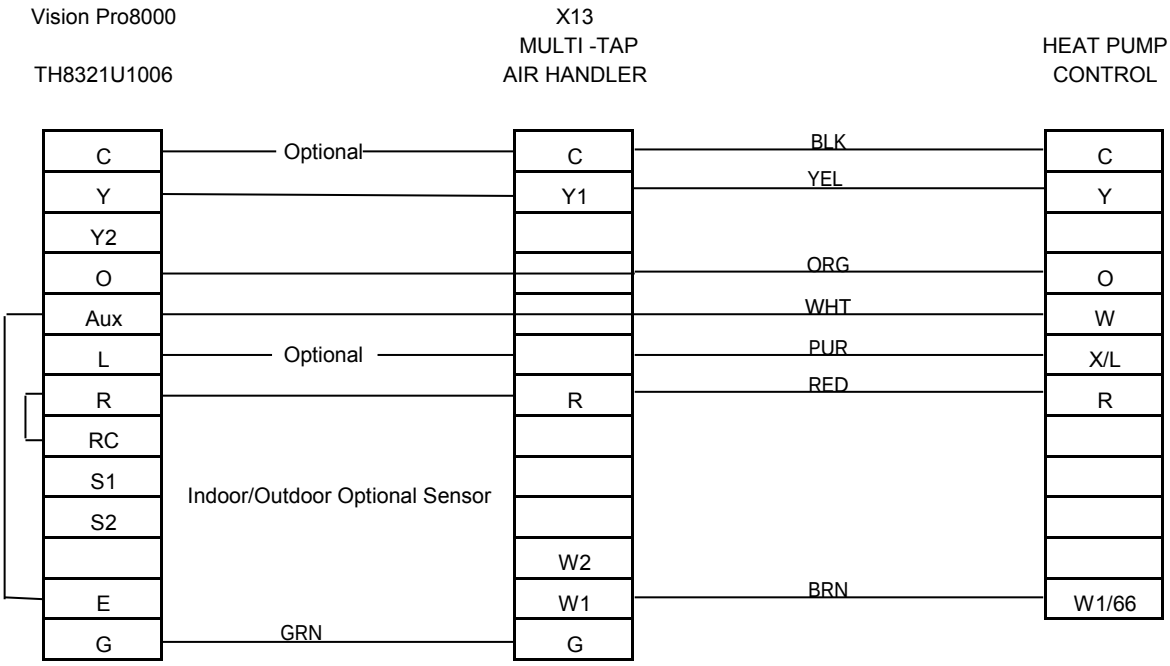


**Critical Installation Set up on Thermostat**
0170 = 7 (tells the stat it's operating at 2 heat and 1 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**
Set Blower Speeds as Required for Proper CFM
Note: W2 only required if 13 KW and above.

**Critical Installation Set up for Heat Pump Jumpers**
Defrost Curve = Position 2

**YHJF** 1-STAGE HEAT PUMP - R-410a
1.5 - 4 Tons
**MX Air Handler with X13 Motor**

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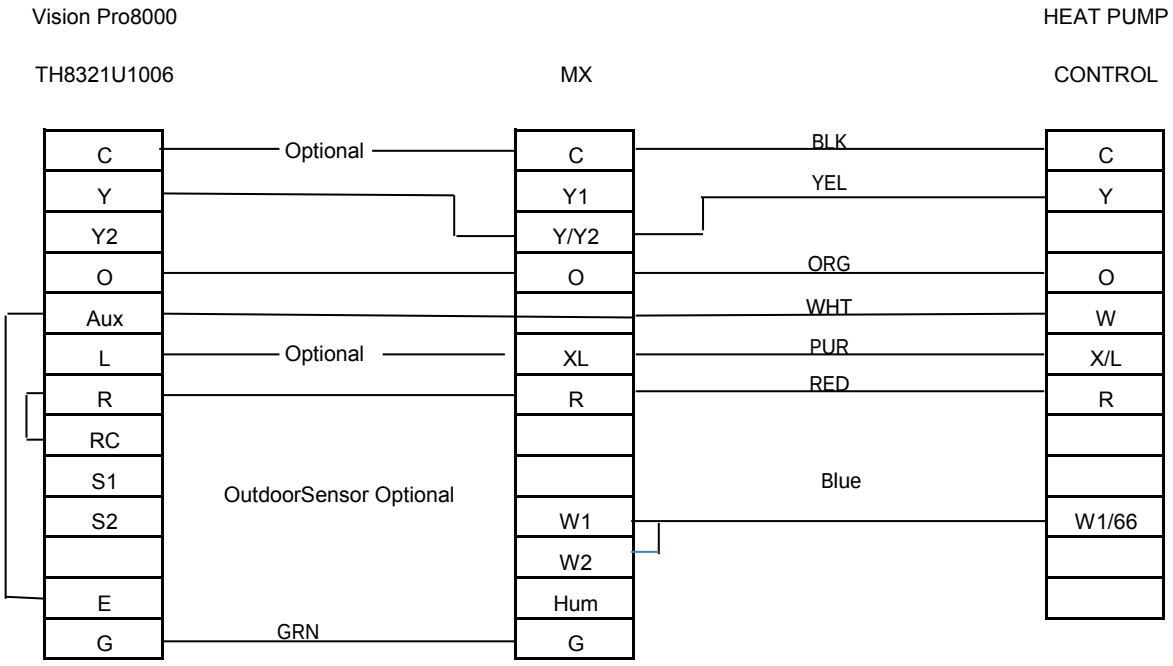


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)

0180 = 1 ( Fan is controlled by thermostst)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Air Handler**

Set Blower Speeds as Required for Proper CFM

Heat Enable = Yes if Electric Heater is installed

Hunidistat = Set to yes if Humidistat is present

Heat Pump = Yes

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Curve Position 2

**YHJF** 1-STAGE HEAT PUMP - R-410a
1.5 - 4 Tons
**TM9V** 96% 2 STAGE GAS FURNACE
**TM8V** 80% 2 STAGE GAS FURNACE

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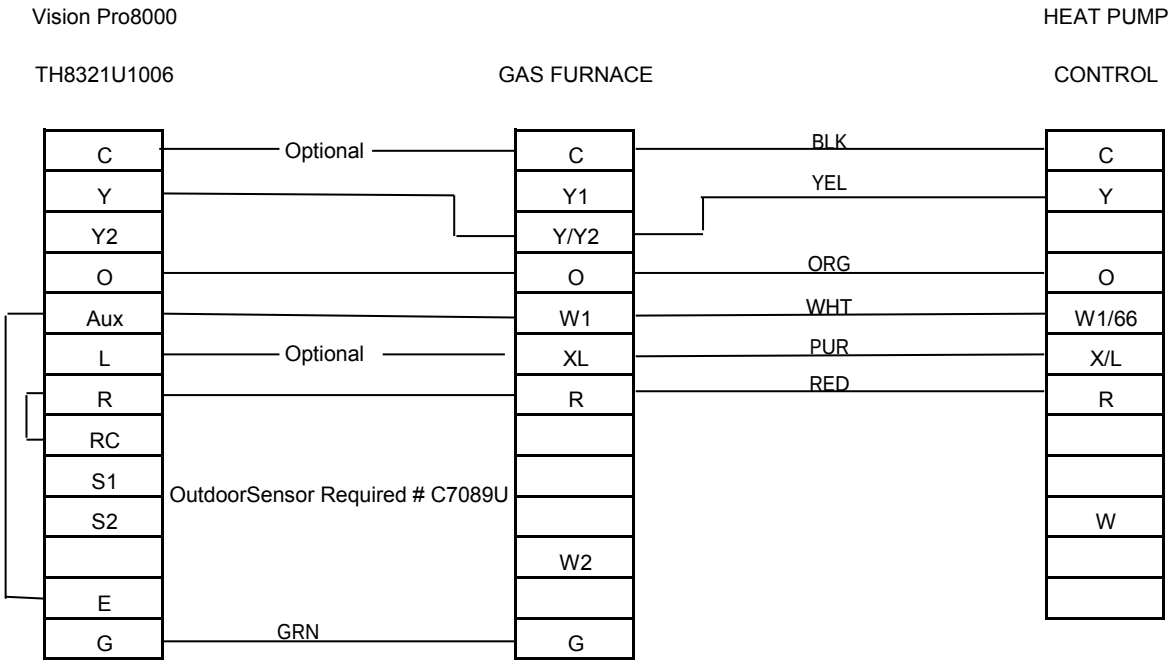


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 0 (Tells stat fossil fuel kit is internal)
0270 = 3 (For 90% Furnace or 5 For 80%)
0340 = 2 (Outdoor Sensor Control)
0350 = 35 ( Balance Point for Lock Out Range 15 to 45 Degrees)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Speed set as Required  Set Blower Speeds as Required for Proper CFM
Fan Off Delay Set as Required
High Heat Delay can be set for 10,15,or 20 minutes.
Heat Pump = Yes

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Curve Position 2

**YHJF** 1-STAGE HEAT PUMP - R-410a
1.5 - 4 Tons
**TM9X** 95% SINGLE STAGE GAS FURNACE
**TM8X** 80% SINGLE STAGE GAS FURNACE

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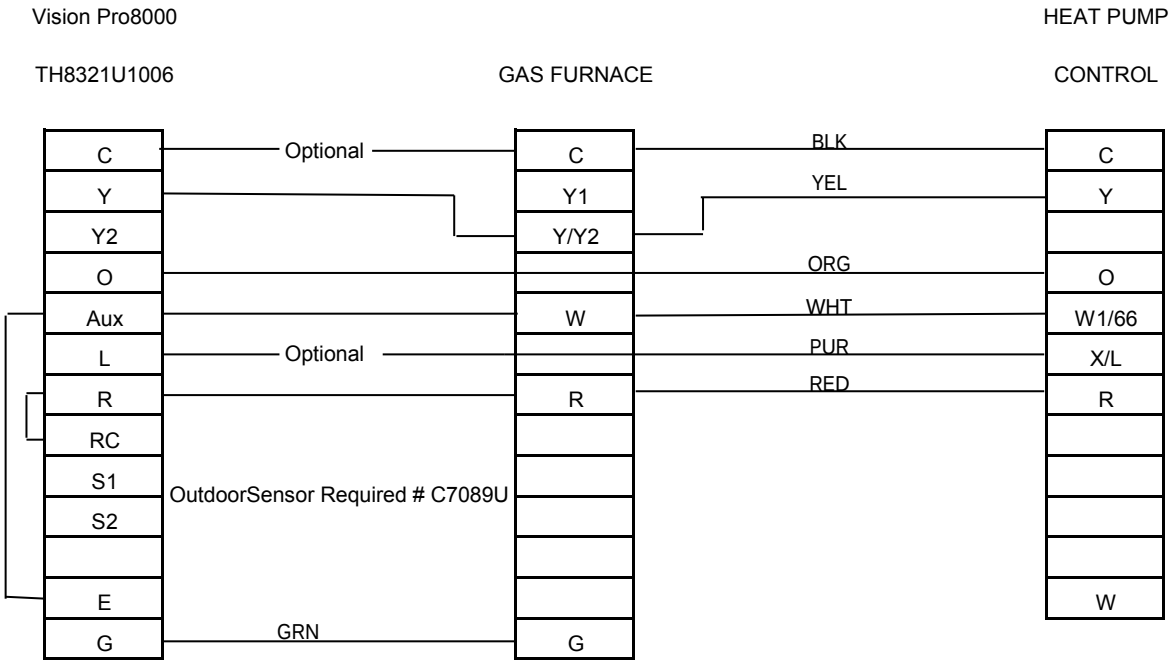


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 0 (Tells stat fossil fuel kit is internal)
0270 = 3 (For 90% Furnace or 5 For 80%)
0340 = 2 (Outdoor Sensor Control)
0350 = 35 ( Balance Point for Lock Out Range 15 to 45 Degrees)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Spped set as Required  Set Blower Speeds as Required for Proper CFM
Fan Off Delay Set as Required

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Curve Position 2

**YHJF** **2**-STAGE HEAT PUMP - R-410a
**5** Tons Only
**TM9V** 96% 2 STAGE GAS FURNACE
**TM8V** 80% 2 STAGE GAS FURNACE

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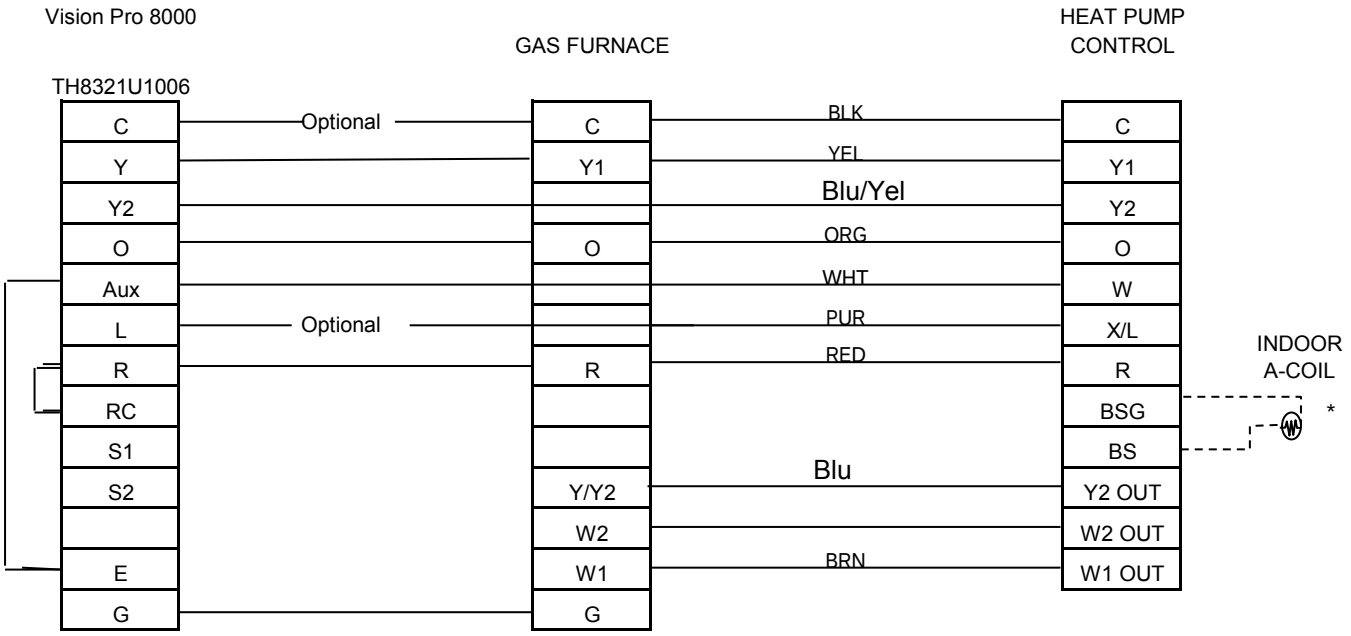


* OPTIONAL BONNET SENSOR

* OPTIONAL BONNET SENSOR

**Critical Installation Set up on Thermostat**

0170 = 7 (tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Spped set as Required  Set Blower Speeds as Required for Proper CFM
Fan Off Delay Set as Required
High Heat Delay can be set for 10,15,20 minutes.
Heat Pump = Yes

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (Factory Default is OFF, but it must be turned ON for this application)
Y2 Lock = ON/OFF (Factory Default is OFF, however we recommend it be changed to ON)
Switch Point = 35º is Factory Default, change if needed
F Fuel (Fossil Fuel) = ON (Factory Default is off, however it MUST be changed to ON)
BP (balance point) = 35º is factory setting, but should be set to job specific temperature

**YHJF** **2**-STAGE HEAT PUMP - R-410a
**5** Tons Only
**TM9X** 95% SINGLE STAGE GAS FURNACE
**TM8X** 80% SINGLE STAGE GAS FURNACE

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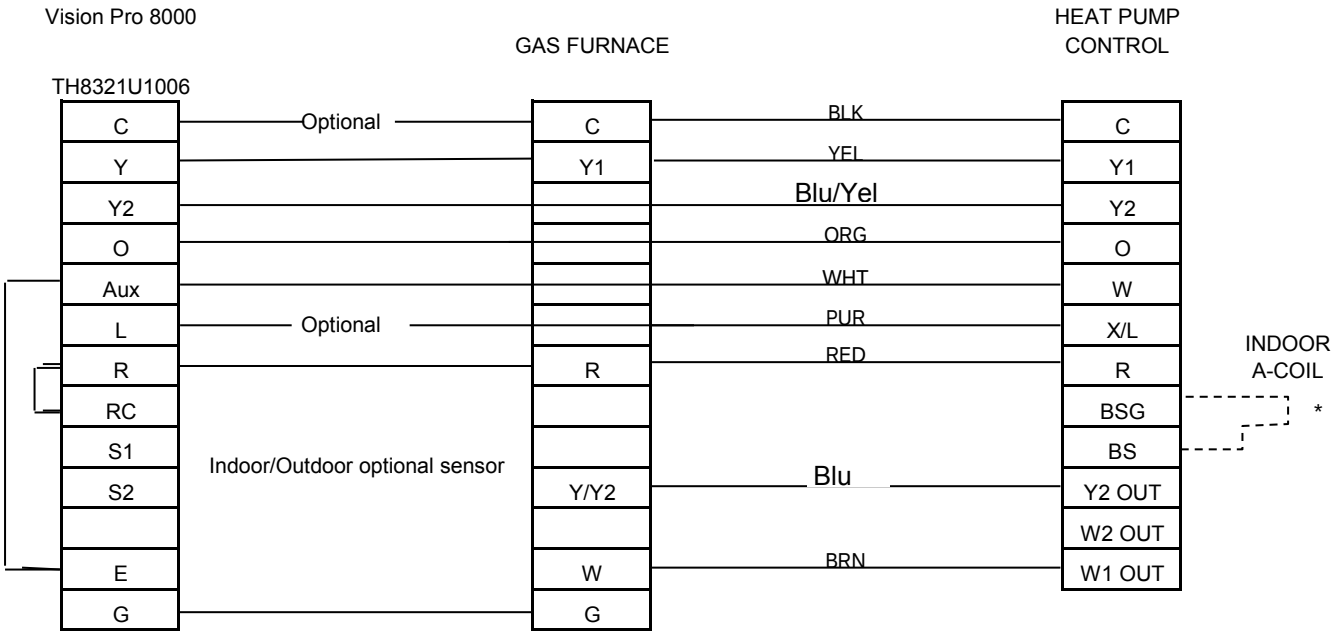


* OPTIONAL BONNET SENSOR

* OPTIONAL BONNET SENSOR

**Critical Installation Set up on Thermostat**

0170 = 7 (tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)

0200 = 1 (Tells stat back up is fossil fuel)

0210 = 1 (Tells stat fossil fuel kit is external)

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Spped set as Required  Set Blower Speeds as Required for Proper CFM

Fan Off Delay Set as Required

**Critical Installation Set up for Heat Pump Jumpers**

Hot Heat Pump = ON/OFF (Factory Default is OFF, But it must be turned on for this application)

Y2 Lock = ON/OFF (Factory Default is OFF)

Switch Point = 35º is Factory Default, change if needed

F Fuel (Fossil Fuel) = ON (Factory Default is off, however it MUST be changed to ON)

BP (balance point) = 35º is factory setting, but should be set to job specific temperature

**YHJD** 1-STAGE HEAT PUMP -
**AHE** SINGLE PIECE X13 AIR HANDLER

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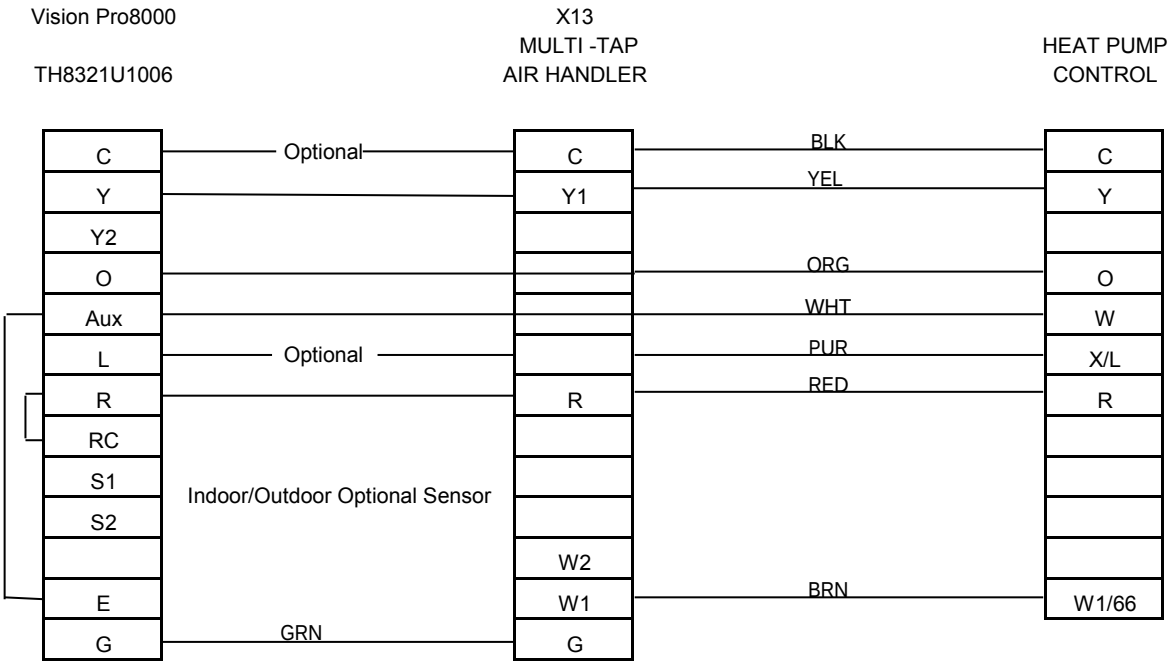


**Critical Installation Set up on Thermostat**
0170 = 7 (tells the stat it's operating at 2 heat and 1 cool stage as a heat pump)

**Critical Installation Set up for Air Handler Jumpers**
Set Blower Speeds as Required for Proper CFM
Note: W2 only required if 13 KW and above.

**Critical Installation Set up for Heat Pump Jumpers**
Defrost Time 30,60,90 Minutes

**YHJD** 1-STAGE HEAT PUMP - R-410a
1.5 - 4 Tons
**MX Air Handler with X13 Motor**

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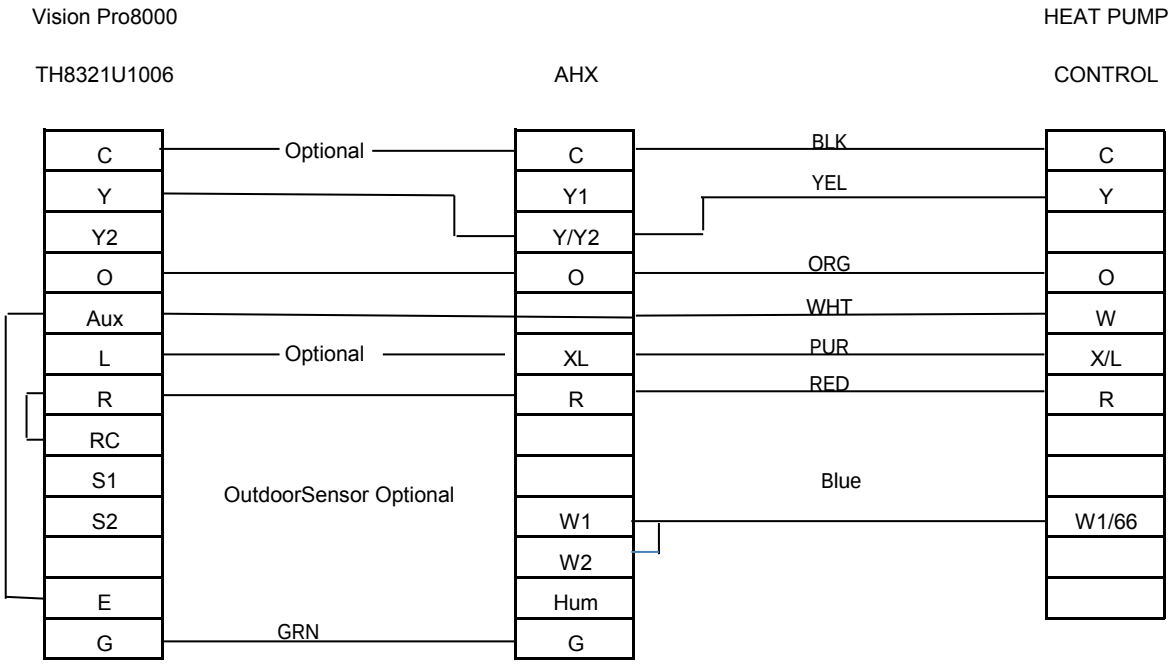


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)

0180 = 1 ( Fan is controlled by thermostst)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Air Handler**

Set Blower Speeds as Required for Proper CFM

Heat Enable = Yes if Electric Heater is installed

Hunidistat = Set to yes if Humidistat is present

Heat Pump = Yes

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Time 30,60,90 Minutes

**YHJD** 1-STAGE HEAT PUMP - R-410a
1.5 - 5 Tons
**TM9X** 95% SINGLE STAGE GAS FURNACE
**TM8X** 80% SINGLE STAGE GAS FURNACE

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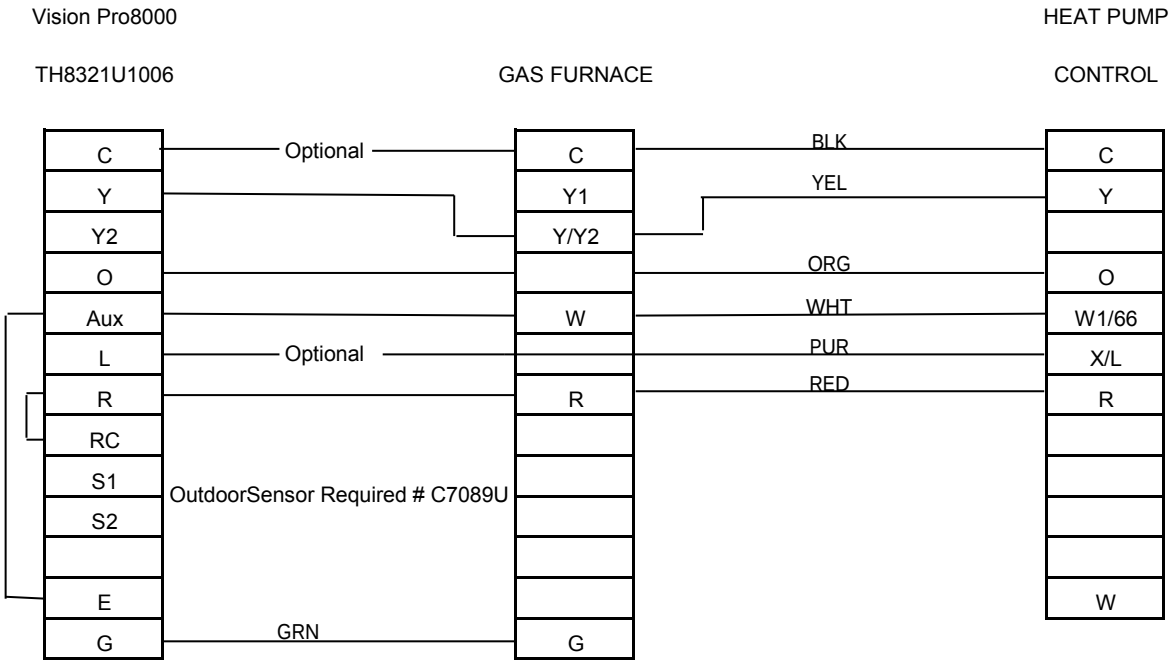


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 0 (Tells stat fossil fuel kit is internal)
0270 = 3 (For 90% Furnace or 5 For 80%)
0340 = 2 (Outdoor Sensor Control)
0350 = 35 ( Balance Point for Lock Out Range 15 to 45 Degrees)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Spped set as Required  Set Blower Speeds as Required for Proper CFM
Fan Off Delay Set as Required

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Time 30,60,90 Minutes

**YHJR** 1-STAGE HEAT PUMP - R-410a
1.5 - 5 Tons
**TG9S** 95% SINGLE STAGE GAS FURNACE
**TG8S** 80% SINGLE STAGE GAS FURNACE

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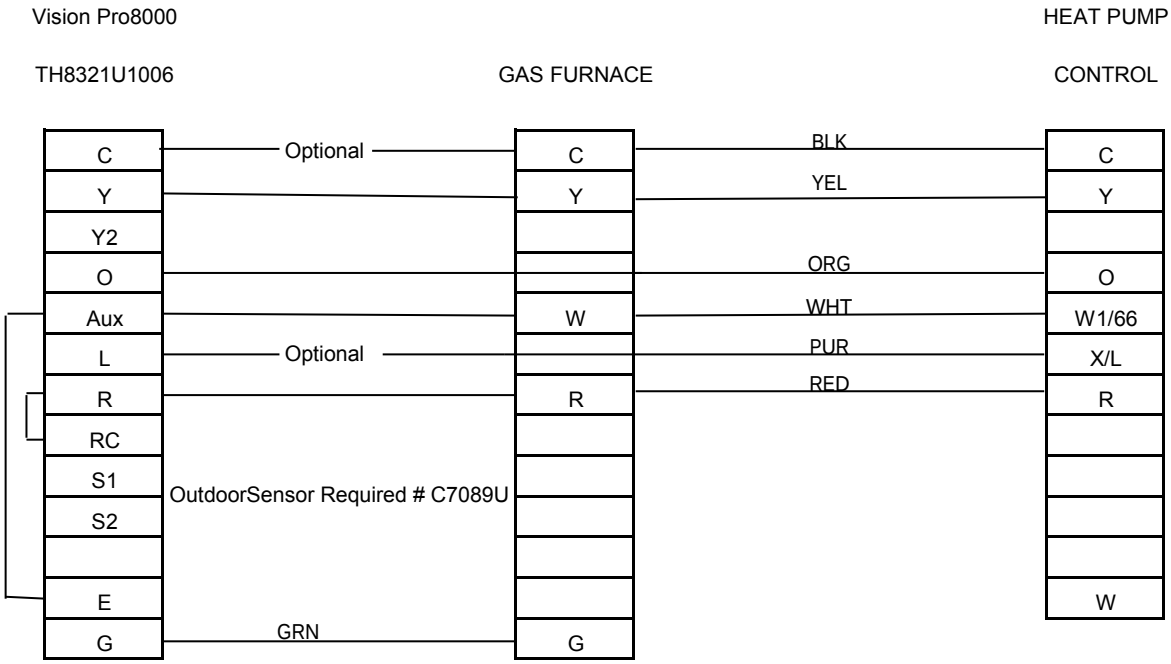


**Critical Installation Set up on Thermostat**

0170 = 7 (Tells the stat iis operating at 2 heat and 1 cool stage as a heat pump)
0190 = 0 ( Reversing Valve in Normal Heat Mode)
0200 = 1 (Tells stat back up is fossil fuel)
0210 = 0 (Tells stat fossil fuel kit is internal)
0270 = 3 (For 90% Furnace or 5 For 80%)
0340 = 2 (Outdoor Sensor Control)
0350 = 35 ( Balance Point for Lock Out Range 15 to 45 Degrees)

Note: Outdoor sensor cable must be separate from the thermostat cable.

**Critical Installation Set up on Furnace Jumpers**

Contionus Fan Spped set as Required  Set Blower Speeds as Required for Proper CFM
Fan Off Delay Set as Required

**Critical Installation Set up for Heat Pump Jumpers**

Defrost Time 30,60,90 Minutes

| | |
|---|---|
| YCJF | 1-STAGE AIR CONDITIONER |
| **TM9X** | 95% Single Stage X13 Gas Furnace |
| **TM8X** | 80% Single Stage X13 Gas Furnace |

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**Vision Pro8000**

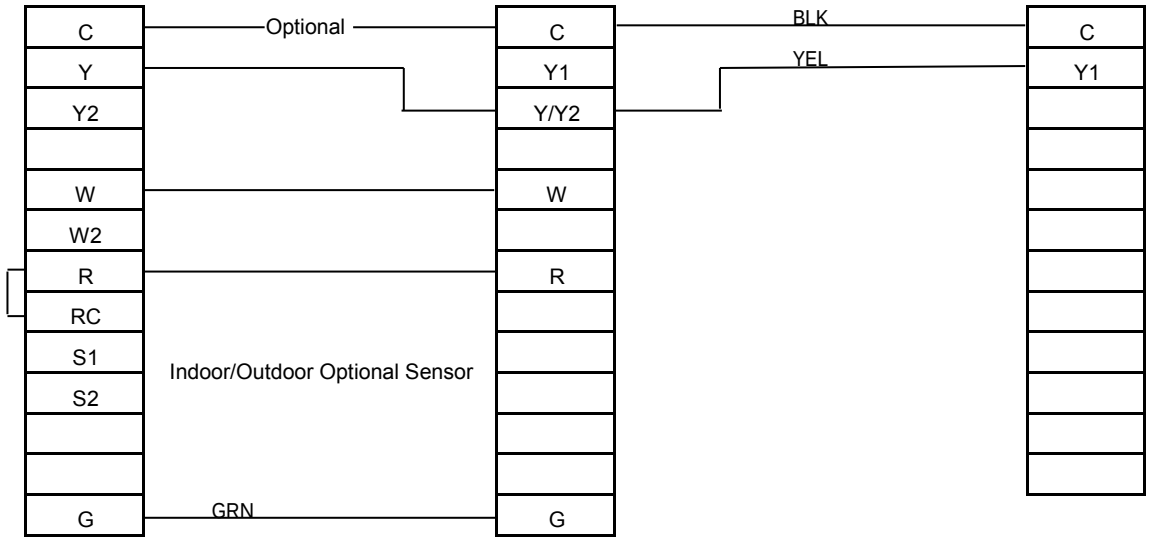
**TH8321U1006**

**Single Stage**

**GAS FURNACE**

**2 STAGE A/C**

**CONTROL**




**Critical Installation Set up on Thermostat**

0170 = 1 (tells stat 1 heat stage and 1 cooling stages)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM

| | |
|---|---|
| YCJD | 1-STAGE AIR CONDITIONER |
| **TM9X** | 95% Single Stage X13 Gas Furnace |
| **TM8X** | 80% Single Stage X13 Gas Furnace |

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**Vision Pro8000**

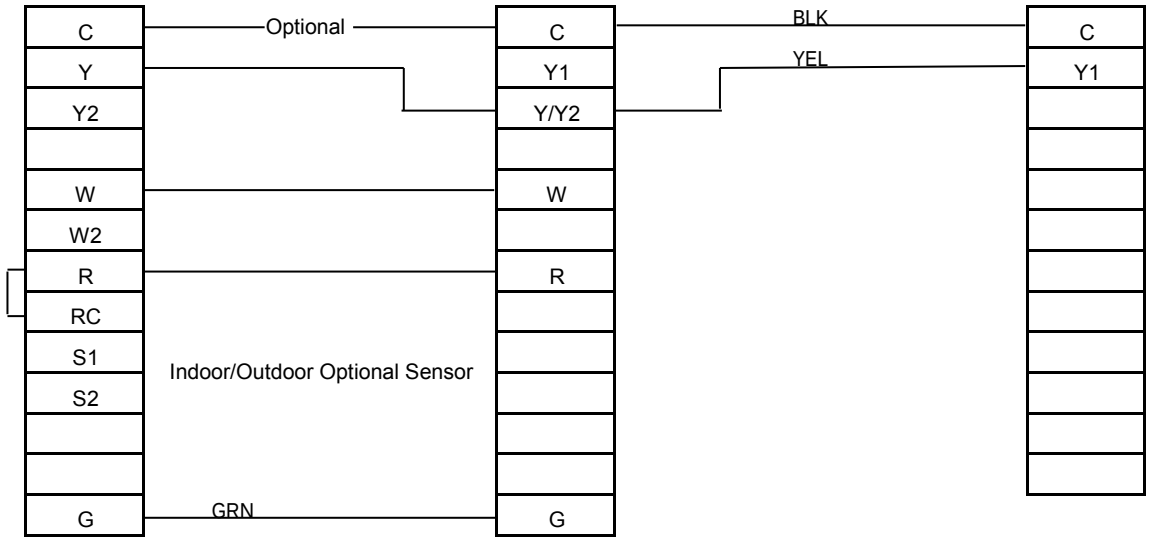
**TH8321U1006**

**Single Stage**

**GAS FURNACE**

**2 STAGE A/C**

**CONTROL**




**Critical Installation Set up on Thermostat**

0170 = 1 (tells stat 1 heat stage and 1 cooling stages)

0240= 3- 90% Furnace 5-80% Furnace (tells stat 1st stage heaing cycle rate)

**Critical Installation Set Up on Furnace**

Set Blower Speeds as Required for Proper CFM