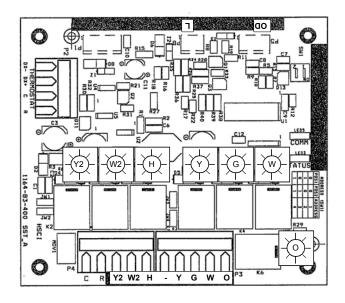


Installation Instructions / User's Manual NAXA00201DB Communicating Daughter Board

The NAXA00201DB daughter board control allows for using 4 existing thermostat wires in an existing, finished home to communicate with the TSTAT0406 & TSTAT0407 thermostats. The daughter board translates the communicated heating and cooling needs and sends the normal discrete thermostat outputs to the indoor and outdoor equipment as needed. The NAXA00201DB Daughter Board must be used in conjunction with the TSTAT406 or TSTAT0407 Communicating Thermostat for proper operation. The daughter board provides a two-wire RS485 ModBus communication link and 24VAC to the communicating thermostat via a 4 wire connection scheme, "L" input from the Comfort Alert Module, a sensor input for the remote outdoor sensor, seven thermostat 24VAC outputs (W,G,Y,O,W2,Y2,H) and status & communication LED's.

NAXA00201DB Daughter Board Kit includes the following:

- NAXA00201DB Daughter Board
- 6 # 6 sheet metal mounting screws
- "L" Input Pigtail wire harness & wire nut
- Remote outdoor sensor pigtail wire harness & wire nuts
- Installation instructions (48206530200)
- VA Rating of 4.8 (200mA at 24 VAC)
- SPDT-NO Panel Mount Relay with 24VAC Coil



Note: Output LED's illuminate next to corresponding outputs in areas shown by $\dot{\gamma}$

Daughter Board Terminals & Connections

See wiring diagrams for proper wiring and installation.

The following connections are provided in the P2 terminal block: (Power and Communication Connections to Communicating Thermostat)

- P2 Pin 1 "R" 24VAC hot power connection for communicating thermostat
- P2 Pin 2 "GND" Ground connection for communicating thermostat
- P2 Pin 3 "DX+" DX+ connection to the A+ Terminal on the communicating thermostat
- P2 Pin 4 "DX-" DX- connection to the B- Terminal on the communicating thermostat

The following connections are provided in the P3 terminal block: (Outputs to the HVAC Equipment)

- P3 Pin 1 "O" 24 VAC thermostat output
- P3 Pin 2 "W" 24 VAC thermostat output

P3 – Pin 3 "G" 24 VAC thermostat output

P3 – Pin 4 "Y" 24 VAC thermostat output

P3 – Pin 5 "Not Used" 24 VAC thermostat output

The following connections are provided in the P4 terminal block: (Outputs to the HVAC Equipment)

- P4 Pin 1 "H" 24 VAC thermostat output P4 – Pin 2 "W2" 24 VAC thermostat output
- P4 Pin 3 "Y2" 24 VAC thermostat output
- P4 Pin 4 "R" 24 VAC system power input
- P4 Pin 5 "C" 24 VAC system common input

The following connections are provided in the P5 Connector: (Optional Location for the Outdoor Sensor Hook-up)

- P5 Pin 1 "OD" Ground for Remote Outdoor Temperature Sensor
- P5 Pin 2 "OD" Remote Outdoor Temperature Sensor input
- P5 Pin 3 "Not used"
- P5 Pin 4 "Not used"

The following connections are provided in the P8 Connector: (Optional Connection for the Comfort Alert ALARM Output)

P8 – Pin 1	"Not Used"	No Connect
P8 – Pin 2	"Not Used"	No connect
P8 – Pin 3	"L"	"L" fault input from Comfort Alert Module

Status LED Operation

The LED labeled LED5 is a status LED that will provide a "heart beat" blink of this LED to indicate that the NAXA00201DB communicating daughter board control is powered and working properly.

Communication LED Operation

The LED labeled LED3 will be illuminated for 100mS each time a successful communications packet is received from the TSTAT0406 or TSTAT0407 communicating thermostat.

Thermostat Call Output LED's Operation

There is an LED Output for each thermostat output from the daughter board. The corresponding LED will illuminate any time the associated thermostat output is active.

- LED 8 illuminates when "O" Output is energized
- LED 7 illuminates when "W" Output is energized
- LED 6 illuminates when "G" Output is energized
- LED 4 illuminates when "Y" Output is energized
- LED 9 illuminates when "H" Output is energized
- LED 1 illuminates when "w2" Output is energized
- LED 2 illuminates when "Y2" Output is energized
- •

"L" Input from Comfort Alert Module to Daughter Board

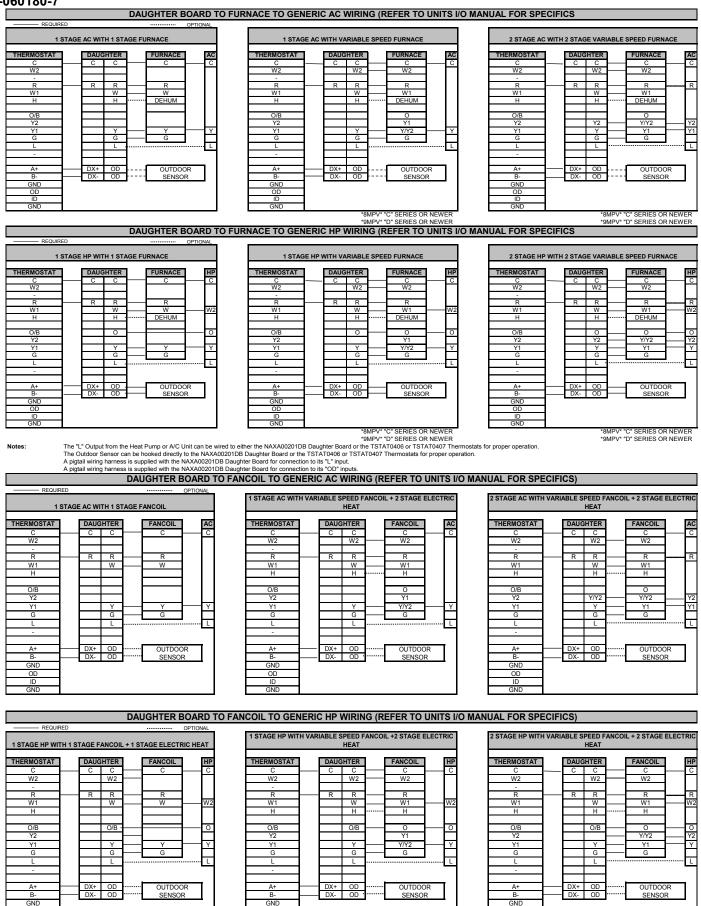
997-060180-7

The Comfort Alert Module will transmit the active fault code. The Comfort Alert or thermostat does not have any effect on operation of the equipment during a Comfort Alert fault. The Comfort Alert fault output can be wired directly to the daughter board or communicating thermostat. When the Comfort Alert Module is wired to the "L" input of the daughter board, it will recognize the fault output after it has been active for 10 seconds. After the daughter board has recognized the active fault from the Comfort Alert Module, the daughter board will forward the fault information to the communicating thermostats via the communication wires. The communicating thermostat will then display the fault code as defined.

COMFORT ALERT[™] MODULE FAULT CODES

Status LED	Status LED Description	Status LED Troubleshooting Information
Green "POWER"	Module has power	Supply voltage is present at module terminals
Red "TRIP"	Thermostat demand signal	1. Compressor protector is open
	Y is present, but the compressor is not running.	 Check for high head pressure Check compressor supply voltage
	compressor is not running.	2. Outdoor unit power disconnect is open
		 Compressor circuit breaker or fuse(s) is open.
		4. Broken wire or connector is not making contact
		Low Pressure switch open if present in system
		6. Compressor contactor has failed open.
Yellow "ALERT"	Long Run Time	1. Low refrigerant charge
Flash Code 1	Compressor is running extremely long run cycles	 2. Evaporator blower is not running Check blower relay coil and contacts
	exactively long full eyeles	Check blower motor capacitor
		Check blower motor for failure or blockage
		 Check evaporator blower wiring and connectors
		Check indoor blower control board
		Check thermostat wiring for open circuit
		 3. Evaporator coil is frozen Check for low suction pressure
		Check for excessively low thermostat setting
		Check evaporator airflow (coil blockages or return air filter)
		Check ductwork or registers for blockage
		Faulty metering device
		 Check TXV bulb installation (size, location and contact)
		Check if TXV/fixed orifice is stuck closed or defective
		5. Condenser coil is dirty
		 Liquid line restriction (filter drier blocked if present in system) Thermostat is malfunctioning
		Check thermostat sub-base or wiring for short circuit
		Check thermostat installation (location, level)
		8. Comfort Alert Module failure
Yellow "ALERT"	System Pressure Trip	1. High head pressure
Flash Code 2	Discharge or suction	Check high pressure switch if present in system
	pressure out of limits or	Check if system is overcharged with refrigerant Check for non-condensable in gratem
	compressor overloaded	Check for non-condensable in system Condensate asily page air simulation (diffy blocked, demograd)
		 Condenser coil poor air circulation (dirty, blocked, damaged) Condenser fan is not running
		Check fan capacitor
		Check fan wiring and connectors
		 Check fan motor for failure or blockage
		Return air duct has substantial leakage
		5. If low pressure switch present in system, check Flash Code
		1 information
Status LED	Status LED Description	Status LED Troubleshooting Information
Yellow "ALERT"	Short Cycling	1. Thermostat demand signal intermittent
Flash Code 3	Compressor is running	Time delay relay or control board defective
	only briefly	If high pressure switch present, go to Flash Code 2
		information
		information 4. If low pressure switch present, go to Flash Code 1
Yellow "AI FRT"		information 4. If low pressure switch present, go to Flash Code 1 information
Yellow "ALERT" Flash Code 4	Locked Rotor	information 4. If low pressure switch present, go to Flash Code 1 information 1. Run Capacitor has failed
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Flash Code 4 Yellow "ALERT" Flash Code 5 Yellow "ALERT" Flash Code 6	Open Circuit Open Start Circuit	information 4. If low pressure switch present, go to Flash Code 1 information 1. Run Capacitor has failed 2. Low line voltage (contact utility if voltage disconnect is low) 3. Excessive liquid refrigerant in compressor 4. (Compressor bearings are seized • Measure compressor oil level 1. Outdoor unit power disconnected 2. Compressor circuit breaker or fuse(s) open 3. Compressor contactor has failed open. • Check compressor contactor wiring and connectors • Check for compressor contactor failure (burned, pitted or open) • Check for low pilot voltage at compressor contactor coil 4. High pressure switch is open and requires manual reset 5. Open circuit in compressor upoly wiring or connections 6. Unusually long compressor protector reset time due to extreme ambient temperature 7. Compressor motor winding resistance 1. Run capacitor has failed 2. Open circuit in compressor start winding or connections • Check compressor motor winding resistance
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Flash Code 4 Yellow "ALERT" Flash Code 5 Yellow "ALERT" Flash Code 6 Yellow "ALERT" Flash Code 7	Locked Rotor Open Circuit Open Start Circuit Open Run Circuit Current only in start	information 4. If low pressure switch present, go to Flash Code 1 information 1. Run Capacitor has failed 2. Low line voltage (contact utility if voltage disconnect is low) 3. Excessive liquid refrigerant in compressor 4. Compressor bearings are seized • Measure compressor oil level 1. Outdoor unit power disconnected 2. Compressor circuit breaker or fuse(s) open 3. Compressor contactor has failed open. • Check compressor contactor wiring and connectors • Check for compressor contactor failure (burned, pitted or open) • Check wiring and connection between supply and compressor • Check for low pilot voltage at compressor contactor coil 4. High pressure switch is open and requires manual reset 5. Open circuit in compressor protector reset time due to extreme ambient temperature 7. Compressor motor winding resistance 1. Run capacitor has failed 2. Open circuit in compressor start winding or connections • Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections • Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections • Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections • Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections • Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections • Check compressor run wiring is damaged
Flash Code 4 Yellow "ALERT" Flash Code 5 Yellow "ALERT" Flash Code 6 Yellow "ALERT" Flash Code 7	Locked Rotor Open Circuit Open Start Circuit Open Run Circuit Current only in start circuit Welded Contactor	information 4. If low pressure switch present, go to Flash Code 1 information 1. Run Capacitor has failed 2. Low line voltage (contact utility if voltage disconnect is low) 3. Excessive liquid refrigerant in compressor 4. Compressor bearings are seized 4. Measure compressor oil level 1. Outdoor unit power disconnected 2. Compressor circuit breaker or fuse(s) open 3. Compressor circuit breaker or fuse(s) open 3. Compressor contactor has failed open. 4. Check compressor contactor failure (burned, pitted or open) 5. Check for compressor contactor failure (burned, pitted or open) 5. Check for low pilot voltage at compressor contactor coil 6. High pressure switch is open and requires manual reset 5. Open circuit in compressor supply wiring or connections 6. Unusually long compressor protector reset time due to extreme ambient temperature 7. Compressor motor winding resistance 1. Run capacitor has failed 2. Open circuit in compressor start winding or connections 6. Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections 6. Check wiring and connectors between supply and the compressor winding is damaged 6. Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections 6. Check wiring and connectors between supply and the compressor run winding is damaged 6. Check compressor motor winding resistance 1. Compressor contactor has failed closed 1. Compressor contactor has failed closed 1. Compressor contactor has failed closed 1. Thermostat demand signal not connected to module
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Flash Code 4 Yellow "ALERT" Flash Code 5 Yellow "ALERT" Flash Code 6 Yellow "ALERT" Flash Code 7	Locked Rotor Open Circuit Open Start Circuit Open Run Circuit Current only in start circuit Welded Contactor	information 4. If low pressure switch present, go to Flash Code 1 information 1. Run Capacitor has failed 2. Low line voltage (contact utility if voltage disconnect is low) 3. Excessive liquid refrigerant in compressor 4. Compressor bearings are seized 4. Measure compressor oil level 1. Outdoor unit power disconnected 2. Compressor circuit breaker or fuse(s) open 3. Compressor circuit breaker or fuse(s) open 3. Compressor contactor has failed open. 4. Check compressor contactor failure (burned, pitted or open) 5. Check for compressor contactor failure (burned, pitted or open) 5. Check for low pilot voltage at compressor contactor coil 6. High pressure switch is open and requires manual reset 5. Open circuit in compressor supply wiring or connections 6. Unusually long compressor protector reset time due to extreme ambient temperature 7. Compressor motor winding resistance 1. Run capacitor has failed 2. Open circuit in compressor start winding or connections 6. Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections 6. Check wiring and connectors between supply and the compressor winding is damaged 6. Check compressor motor winding resistance 1. Open circuit in compressor run wiring or connections 6. Check wiring and connectors between supply and the compressor run winding is damaged 6. Check compressor motor winding resistance 1. Compressor contactor has failed closed 1. Compressor contactor has failed closed 1. Compressor contactor has failed closed 1. Thermostat demand signal not connected to module

Flash Code number corresponds to a number of LED flashes, followed by a pause then repeated. TRIP and ALERT LED's flashing at the same time means control circuit voltage is too low for operation.



The "L" Output from the Heat Pump or A/C Unit can be wired to either the NAXA00201DB Daughter Board or the TSTAT0406 or TSTAT0407 Thermostats for proper op The Outdoor Sensor can be hooked directly to the NAXA00201DB Daughter Board or the TSTAT0406 or TSTAT0407 Thermostats for proper operation.

OD

A pictail wiring harness is supplied with the NAXA00201DB Daughter Board for connection to its "L" input.

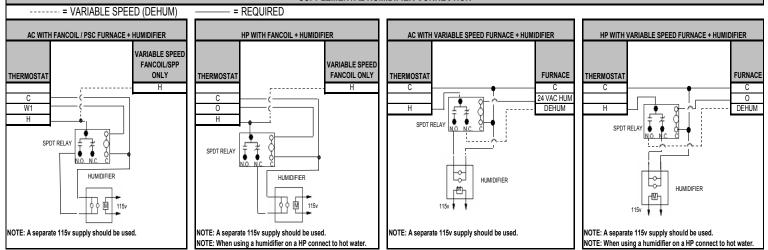
A pigtail wiring harness is supplied with the NAXA00201DB Daughter Board for connection to its "OD" inputs.

0

GΝΓ

OD ID GND

SUPPLEMENTAL HUMIDIFIER CONNECTION



NAXA00201DB Drill Template

Directions:

- Cut Template out along dotted lines. 1.
- 2. Tape template over the sheet metal area to be drilled.
- 3. Drill four holes using a #32 drill bit (.1160") through the four dark circles denoted on the template.
- 4. Remove the template from the drilled area.
- 5. Mount the NAXA00201DB Control with four #6 sheet metal screws included in the kit. Note:
- Ensure that are to be drilled is clear of any gas lines or wiring harnesses prior to drilling.

