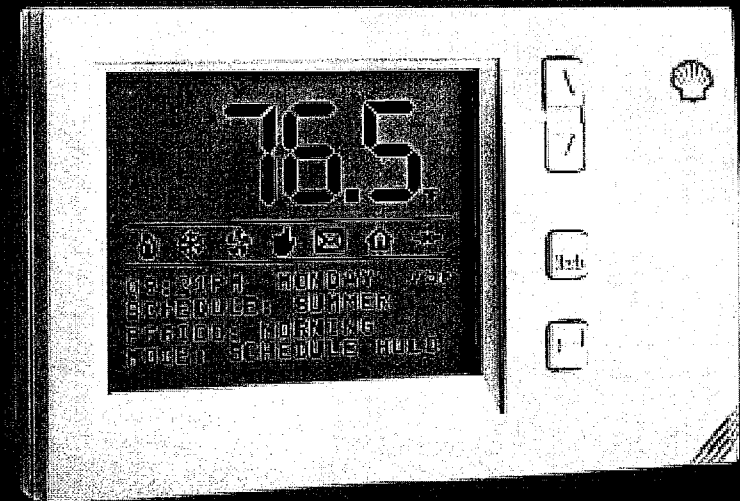


Exhibit J: Users Manual
Xanboo
XWT380 Thermostat Transmitter

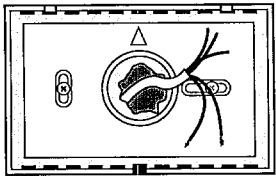


THERMOSTAT



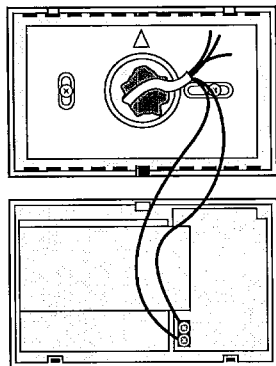
INSTALLING THE DISPLAY UNIT

1. Press the small tab on the bottom center of the display unit with a small screwdriver and separate the front from the base.
2. Mount the base part on the wall, using suitable screws for the mounting surface. Ensure the arrow points up.



THERMOSTAT BASE WALL MOUNTING

3. Connect any two wires to the display unit's terminal block situated on the back.



THERMOSTAT WIRING

4. Make a note of the colors of these two wires as you will need to connect the same two wires to the base unit at the other end.
5. Upon completion of wiring the thermostat, push all excess wiring into the hole in the wall. If there is a large hole in the wall, plug the hole with suitable filler or foam to ensure an accurate temperature reading by the **Thermostat** display unit.
6. Engage the upper tabs of the display unit with the counterparts on the base and press the bottom gently in until you feel it click into place. Do not use excessive force. Ensure you do not have excessive wire looped inside the enclosure.

NOTE: Be sure that the **Thermostat** temperature sensor has not been damaged during installation.

BASE UNIT INSTALLATION ///

CAUTION

This installation must be performed by a qualified HVAC engineer. Be sure to read the complete system installation and operational manual before you begin this installation.

IF WORKING WITH GAS CENTRAL HEATING UNIT ENSURE THE GAS VALVE IS SHUT OFF.

BE SURE TO DISCONNECT THE POWER TO THE CONTROL TRANSFORMER

Do not short gas valve, fan, heat relay, or cool relay. This may damage the Base unit.

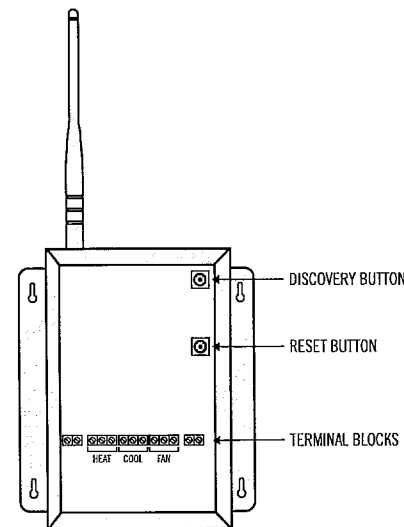
DO NOT ATTEMPT TO HOOK UP TO LIVE CIRCUITS

An accidental connection to a component on the circuit board could cause damage to the Base unit and may be dangerous.

INSTALL THE BASE UNIT AT POINT NEAR THE HVAC UNIT AND CONVENIENT FOR ACCESS

Please also ensure that you mount the unit in a position that gives you easy access to the old thermostat wiring going to the HVAC's control system.

1. Mount the unit vertically about on a wall as high as convenient (5.5 to 6 ft).
2. Remove the front cover by removing four (4) small screws on each side of the base unit.



BASE UNIT INTERNALS FOR INSTALLATION

- Place the cover in a safe place and take care not to damage the plastic light pipe assembly mounted inside the cover.
- Locate the cables that connected the old thermostat to the HVAC unit.
- Ensure you make a note of the color/label relationship and remove the wires from the HVAC control panel.
- Now locate the same two wires the colors which you chose to connect the **Thermostat** display unit (refer to your notes mentioned in the display unit installation instruction). You may connect these two wires in any orientation.
- Using bottom right grommet entry connect the same two wires to the terminals marked "Com Link".

NOTE: In order to maintain a good dust and bug seal pierce the grommets just enough to pull your wires through. Do not remove grommet. Ensure that all wires and their insulation are in good condition. Replace any wire that shows sign of aging and feels brittle to the touch.

POWER CONNECTION ///

USING 24V AC FROM THE HVAC UNIT

If you can get easy access to the HVAC unit's transformer you may use this to power the base unit. However please check the following before doing so:

- That the transformer rating is not exceeded when you add the display load (approx 200mA).
- That the transformer is not switched via other circuits and has a permanent primary feed from the power line.
- That the voltage does not exceed 27V AC.

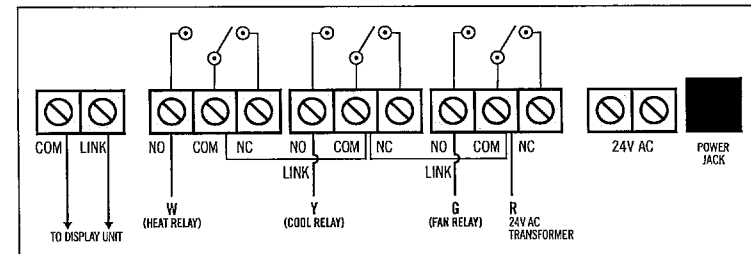
NOTE: If in doubt please use the power adapter supplied with the **Thermostat** Kit. To do this, simply route the power wire through the lower left grommet into the housing and plug in the power jack.

CONNECTION TO HVAC UNIT ///

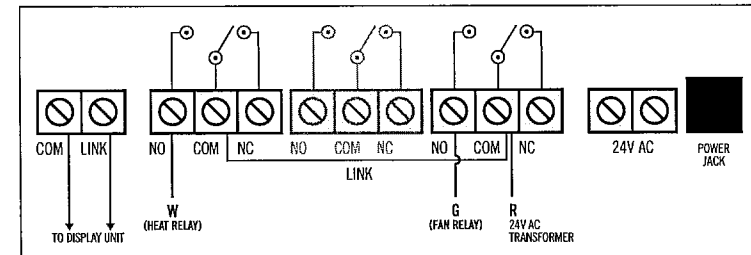
The following three diagrams cover heating only, cooling only, and heating/cooling combination HVAC units. The notations used refer to most common notations used in HVAC wiring in the US.

The installer must verify that these notations do indeed adhere to the following:

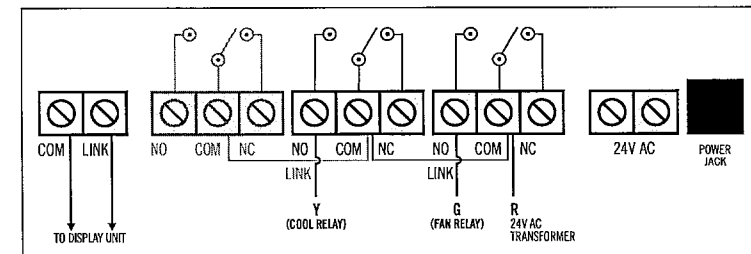
- "W" refers to the connection to the heat relay
- "Y" refers to the connection to the cooling relay
- "G" refers to the connection to the fan relay.
- "R" refers to the connection to the 24V AC transformer.
- "COMMON" refers to the connection between the other terminal of the transformer and all HVAC system relays.



SINGLE STAGE HEATING/COOLING



SINGLE STAGE HEATING ONLY



SINGLE STAGE COOLING ONLY

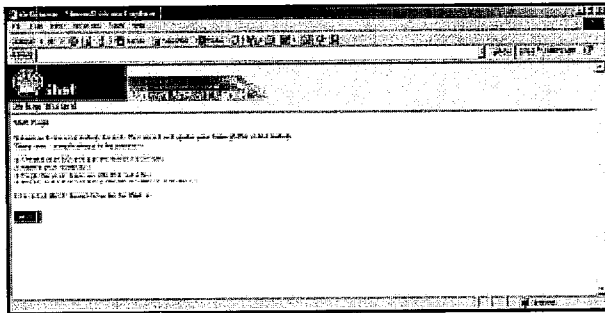
- Double check all your connections and ensure that the installation is neat and all connections are secure.
- You are now ready to perform the discovery and final set up procedure covered in the main system manual.
- Leave the cover of the base unit off until the whole system is operational.
- Upon completion of the set up, replace the front cover and ensure that the light pipe assembly on the inside of the cover is not damaged or detached.

CONNECTING TO THE GATEWAY ///

DISCOVERING NEW DEVICES

In order for the Gateway to control Shell HomeGenie™ devices such as cameras, thermostats and switches, each device must be registered with the Gateway. The Gateway establishes a “secure wireless network” between itself and all discovered Shell HomeGenie™ devices. The Gateway can only control devices that it has discovered. New devices can be discovered at any time.

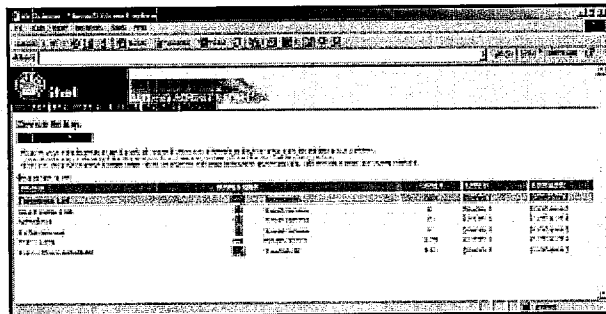
In order for the Gateway and its associated devices to be used, it must be configured first and the devices it controls must be discovered. All configuration and discovery is performed through the Gateway local administration pages. To get to these pages you must log on to the Gateway using your browser. Please refer to your Shell HomeGenie™ User Manual for Gateway configuration information. Once configured, a setup wizard will be presented.



SETUP WIZARD - DEVICE DISCOVERY START PAGE

When you get to Step #4 of the setup wizard, press the discovery button on the devices you wish to discover at this time. Click the ‘NEXT’ button when you have completed discovering your devices.

NOTE: This page will automatically refresh every 15 seconds to display newly discovered devices. It will also automatically stop discovering devices after 15 minutes. You will be able to discover devices at a later time if you choose to do so.



SETUP WIZARD - DEVICE DISCOVERY DEVICE SETUP PAGE

TROUBLE SHOOTING ///

SYMPTOM

REMEDIES

Power LED on the base unit does not light up

1. Be sure you are using the proper wiring from the HVAC system.
2. Be sure the 24V hot wire is plugged into the hot terminal and the 24V common wires is plugged into the common terminal.

The display unit is blank

1. Be sure you have connected the same color wire from the common terminal of the base to the common terminal on the display unit.
2. Be sure you have connected the same color wire from the Link terminal on the base unit to the Link terminal on the display unit.
3. Make sure the base unit is powered.
4. Make sure all terminal screws are tightly fastened.
5. Try a different set of wires.

The Status LED does not blink during range testing

1. Try to reposition the base unit.
2. Adjust the antenna, the preferred position is having the antenna in a vertical upright position.
3. Make sure the base unit is powered properly.
4. Try repositioning the antennas on the Gateway.

The Heating/Cooling system will turn off

1. The minimum cycle time is set to 7 minutes, be sure to wait until this time has passed.

FAQ'S ///

HOW FAR AWAY CAN THE THERMOSTAT BE PLACED FROM THE GATEWAY?

Typically, up to 60-80 feet.

CAN I PLACE THE THERMOSTAT IN A DIFFERENT ROOM FROM THE GATEWAY?

Yes, the Thermostat and Gateway use radio frequencies to communicate with each other. These frequencies can go through objects like walls, ceilings and floors

HOW MANY THERMOSTATS CAN I REGISTER WITH MY GATEWAY?

The Gateway can support up to 2 Thermostats.

IF POWER IS LOST DO I LOSE ALL OF THE THERMOSTAT SETTINGS?

No. The Thermostat has a built in battery backup. It will retain all settings after a power failure.

HOW MANY SCHEDULES CAN THE THERMOSTAT STORE?

The Thermostat stores one schedule at a time. It will display the current schedule's name on the display unit

HOW DO I CHANGE SCHEDULES?

You create and modify schedules from the website application. After a schedule is saved, it can be downloaded to the Thermostat.

TECHNICAL SPECS ///

- Alpha numeric display supports full text in most European languages
- Large easy to read seven segment numbers and icons for easy readability and interface
- Simple three button operation
- Back lit STN LCD display for high contrast and long life
- Two wire comms and power technology simplifies retro installation
- Base unit placed near HVAC simplifies interface with the HVAC equipment
- Distance of up to 100' from thermostat base unit to gateway
- Full scheduling support
- Indoor use only
- Support for Fahrenheit (°F) and Celsius (°C)

APPROVALS ///

FCC ID NUMBER: OU4-XWT380 / IC: 4576A

STANDARDS

93/68/EEC, 89/336/EEC, BS EN 50082-1:1992, 73/23/EEC, EN60950:1992 CE

INSTRUCTION TO THE USERS (IF DEVICE DOES NOT CONTAIN A DIGITAL DEVICE)

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

INSTRUCTION TO THE USER (IF DEVICE CONTAINS A DIGITAL DEVICE)

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interferences will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Operation is subject to the following two conditions: (1) this device may not cause interference; and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WARRANTY ///

This product has a one year manufacturer's warranty which covers parts and labor only. In the unlikely event that you encounter a problem, please refer to the Shell HomeGenie™ warranty service section of the user manual for instructions or visit www.shellhomegenie.com.