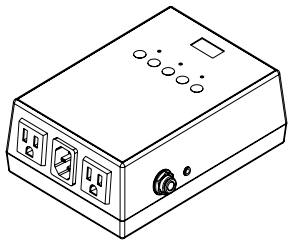
VANIMAN MANUFACTURING CO.

AUTOPILOT
96073

PACKING LIST

1 - AutoPilot
1 - Power cord
1 - Connection Cable
1 - 1/4" OD Blue Tubing 10ft
1 - Tee Union



INTRODUCTION

The AutoPilot allows you to control your dust collector and pneumatic valve automatically from a micromotor or lathe workstation. When you start your micromotor, the dust collector will activate, and the pneumatic valve will open, providing suction to the station. When you stop the micromotor, the dust collector will run for a short time to clear any remaining dust, then turn off.

Note: The AutoPilot supports a micromotor, electric handpiece or lathe that operates at **5 amps, 115VAC,** or less. Plug the Autopilot into its own designated grounded outlet.

INSTRUCTIONS

1. Connecting the Autopilot to your Dust Collector:

- Plug the provided connection cable into the jack on the **right side** of the AutoPilot.
- Connect the other end to one of the following:
  - Combining Box (**PN: 96069**)
  - Standard Remote Hub (**PN: 96109**)
  - SmartSpeed Remote Hub (**PN: 96111**)
  - Compatible Dust Collectors with 3.5mm remote ports:
    - V6 SE (**PN: 10281**), StoneVac SC (**PN: 10240**), StoneVac II Plus (**PN: 10202**), Vanguard Platinum (**PN: 10330**)
- Connect the Combining Box or Remote Hub to the dust collector's **remote plug**.
  Note: Check your dust collector's manual to confirm the correct operation of the **Remote** function.
- If your dust collector isn't compatible with the provided connection cable, you can connect it directly to the Autopilot's **Dust Collector Receptacle (115V, max 10 amps).**

2. Pneumatic Connections:

- Operating Pressure: Recommended between **15-18 PSI (Max: 20 PSI)**.
- A 10ft length of 1/4" OD air tubing **(PN: 2257)** is included, with longer lengths available if needed. Connect the tubing from your air supply to the quick-disconnect fitting on the **left side** of the AutoPilot.
- Connect a tube from the pneumatic valve (**PN: 10518**) to the quick disconnect on the **right side** of the Autopilot.

3. Powering On the Autopilot:

- Connect the provided power cord into the Autopilot's **Power Receptacle** and flip the circuit breaker to the **ON** position.
- The display should turn on and the **Blue LED** will light up, indicating **Manual Mode.**

4. **Manual Mode Operation:**
   - Press the **Start/Stop** Button: The dust collector should start and the pneumatic valve will open, providing suction.
   - Press the **Start/Stop** button again: The dust collector will stop and the pneumatic valve will close.
5. **Automatic Mode Operation:**
   - Press the **Manual** button to enter **Automatic Mode** (the Blue LED will turn off).
   - In **Automatic Mode**, the dust collector will only activate when the micromotor is activated or via the **Air Add-On** port.

CALIBRATION INSTRUCTIONS

On the display you will see:

- **Load Current:** Current being used by your micromotor.
- **Calibration:** This sets the threshold for the AutoPilot to activate and deactivate.
- **Range:** The buffer value that prevents rapid switching between on and off states.

1. **Calibrating the AutoPilot to your micromotor:**
   - Set the AutoPilot to **Automatic Mode**. You can only adjust the calibration settings in this mode.
   - Ensure the micromotor is connected to the "**Handpiece Outlet"** on the Autopilot.
   - Turn the micromotor switch to the "ON" position, but do not activate it. On the AutoPilot, press the **Reset** button to automatically calibrate to your micromotor. The calibration value on the display will update accordingly.
2. **Adjusting the Calibration:**
   - If the dust collector starts when you activate the micromotor but doesn't shut off when you deactivate it, the calibration value is set too low:
     - Press the **Up** button to increase the calibration value until the dust collector shuts off. Allow two seconds after each adjustment.
     - Test the micromotor again and repeat the process until the dust collector turns off after the micromotor stops.
     - The dust collector will continue to run for about ten seconds after you stop using the micromotor.
   - If the dust collector doesn't start when you activate the micromotor, the calibration value is set too high:
     - Press the **Down** button to lower the value.
     - Test the micromotor again and repeat the process until the dust collector starts when the micromotor is activated.
3. **Adjusting the Range:**
   - A long press of the **Reset** button will switch adjustment mode from **Calibration** to **Range**. The setting you are configuring will be highlighted on the display.
   - To switch back from Range to **Calibration**, press and hold the **Reset** button.
   - Range won't need to be adjusted in most cases and is only used for highly sensitive setups. Adjust as needed to fine-tune performance.
4. **Once satisfied with the settings:**
   - **Save your settings** by holding the **Manual** button for a long press, or the Autopilot will automatically save after **5 minutes** of inactivity.

ADDITIONAL NOTES

- **Power Interference:** If the AutoPilot is plugged into the same outlet as another device, interference may occur. Ensure the Autopilot is plugged into its own outlet.
- **Compatibility Issues:** Some high-speed brushless micromotors may not draw enough power to trigger the AutoPilot. Contact Vaniman if you experience this issue.

NSK Ultimate XL-K and/or Z500 Series Handpiece Users

From the NSK Ultimate XL-K and Z500 Users manual:

“Vacuum-coupled Mode"

On some dental tables with vacuum dust collector, the motor may be used while being coupled with a dust collector.

When such a dust collector is used, power consumption of the Ultimate XL-K/Z500 can be regulated so that the vacuum coupled function can work. If you need coupling with a vacuum dust collector, select the mode as follows:

How to select the mode

While pressing Forward/Reverse Selector Switch (button), turn on the Power Switch, and the mode can be selected. A long beep indicates vacuum-coupled mode and 2 short beeps indicate non-coupled mode. Each time the switch selection is made, the mode changes between vacuum-coupled mode and non-coupled mode.

TROUBLESHOOTING

Problem: Unit does not turn on dust collector when micromotor is turned on.

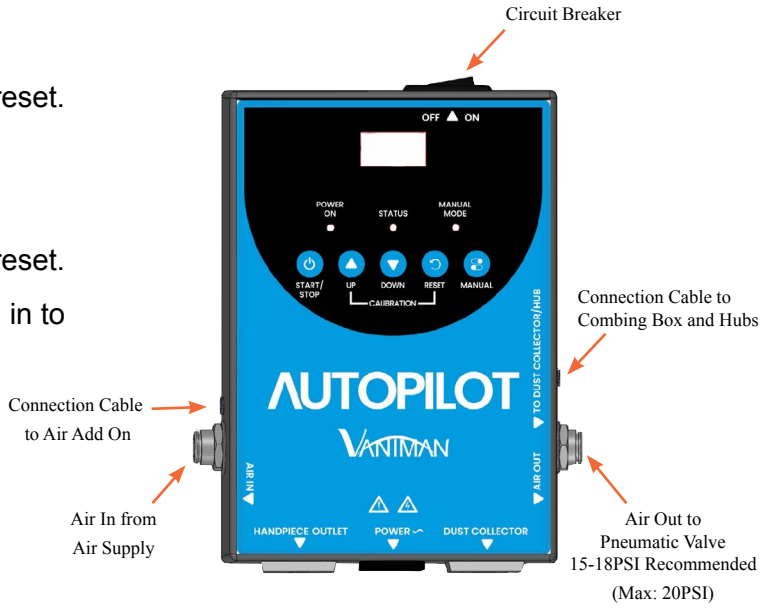
Causes:

1. Check that micromotor is plugged in (see instructions above).
2. Test dust collector with standard wall socket to see that it is operating correctly.
3. Check circuit breaker and push to reset.

Problem: Micromotor does not turn on.

Causes:

1. Check circuit breaker and push to reset.
2. Check that the AutoPilot is plugged in to power correctly.



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Connection Guide for 96069, 96109, & 96111