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## PACKING LIST

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**WARNING:**

THE AIR PRESSURE CONNECTED TO THE AUTOPILOT MUST NOT EXCEED 4 BAR. HIGHER PRESSURE MAY DAMAGE THE UNIT

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## INTRODUCTION

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The **AutoPilot** allows you to control your dust collector from one or two micromotor workstations. When you start your micromotor, the dust collector will start automatically. When you stop your micromotor or air handpiece, the dust collector will continue for a short period of time to allow for the residual dust to be cleared. If your dust collector is set up for two station operation, you can control it with two micromotors or air handpieces, one at each station.

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## INSTRUCTIONS

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The AutoPilot will accommodate one dust collector that draws up to 10 amps, 110-120V 50/60Hz, and two micromotors or electric handpieces that do not exceed **5 amps, 110-120V 50/60Hz, total**. Plug the AutoPilot into a grounded outlet. Plug the dust collector into the center receptacle and turn the dust collector's main switch **ON**. Turn the red power switch on the AutoPilot to the **ON** position. Flip the black switch to **MANUAL**, the dust collector should come on. Flip the black switch to **AUTOMATIC**, the dust collector should turn off. If it does not turn off, see adjustment instructions below.

**Note:** If two micromotors are plugged into the AutoPilot, some micromotors interfere with each other and cannot be used at the same time with the AutoPilot. Additionally, some high speed brushless units may not draw enough power to trigger the AutoPilot. Please contact Vaniman if you experience this problem.

1. Turn the dust collector on at the main power switch. Flip the AutoPilot's **AUTO/MANUAL** switch to **AUTOMATIC** and the dust collector should turn off.
2. Plug one micromotor into the receptacle on the **AutoPilot**. If the dust collector comes on, the sensitivity is set too high for your micromotor; we will adjust it in a moment. If the dust collector did not start when first plugged in; start the micromotor now. If the dust collector starts, then the sensitivity is set correctly.
3. If the sensitivity is not set correctly, it can be adjusted by the screw located on the bottom of the unit. To increase the sensitivity gently turn the screw counter-clockwise (to the left). If your dust collector did not start when you started the micromotor, then increase the sensitivity by turning the screw slightly counter-clockwise waiting two seconds after each adjustment. Try the micromotor again. If the dust collector does not start, then increase sensitivity a little more. Repeat this process until the dust collector starts when the micromotor is running.
4. If the dust collector starts when the micromotor is plugged in but not running, then the sensitivity is set too high and you need to decrease it by gently turning the screw slowly clockwise (to the right). Allow at least 10 seconds between adjustments for the time delay. When you reach the point where the dust collector stays off; try the micromotor and the dust collector should start automatically. If it does not, then you may have decreased the sensitivity too much. Increase the sensitivity as described in the paragraph above.

### **Air Handpiece Users**

Connect the air turbines by connecting the air hoses and tees provided on the **AutoPilot** to the air hoses that go to the air turbine. Cut the air turbine air hose between the foot pedal and turbine and reconnect the hose using the tee provided on the **AutoPilot** . When either of the two air turbines is started, the dust collector should start automatically. When the last air turbine (or micromotor) stops, the dust collector will stop after a 5 second delay.

### **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.”

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## **TROUBLESHOOTING**

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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** plugged in correctly.