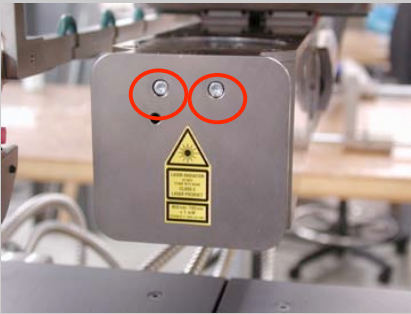
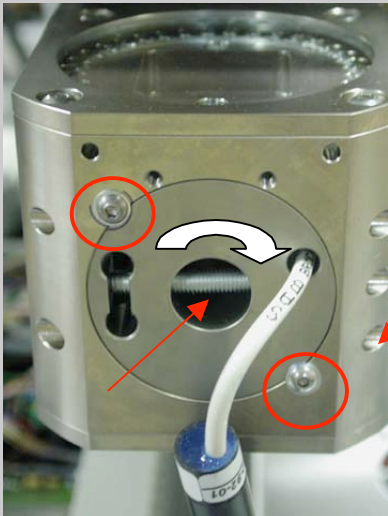





TROUBLESHOOTING GUIDE Release Notes

Product Line : Onyx 29
Category: Vision Alignment

PROBLEM	SOLUTION
<ul style="list-style-type: none"> Vision alignment needs to be adjusted very often and will not stay in alignment. 	<ul style="list-style-type: none"> Once the Onyx vision system is aligned it should never need to be adjusted again. To correct this issue, follow the steps below:
	<ul style="list-style-type: none"> Looking at the front of the vision assembly, remove the two mounting screws that hold the front plate to the vision assembly and remove it. At this point there is no need to completely remove the plate from the wiring, so just let it hang there.
	<ul style="list-style-type: none"> Verify that the vision cube is loose; using a pair of needle nose pliers, grasp the center bar and gently try to turn the cube. If it moves then the proceed to the next steps. If it does not move call Air-Vac Tech Support 203-888-9900. If an M5 x 8mm set screw is available, insert it here to bare against the prism housing and keep the housing from moving in the future. If a set screw is not readily available, and until one can be acquired, remove the two screws holding the cube in place.

	<ul style="list-style-type: none"> • Take the washer and create a bend to it. This bend will create the friction needed to hold the cube in place. • Place the screw and washer back in place. Be sure to have the bent side facing the cube. • Using the needle nose pliers once again, and pivot the cube and use and edge of the assembly to approximately square the cube to the assembly. • Tighten the screws in place. • Check that the cube is now firmly locked in position using the needle nose pliers. • Re-install the front plate back on the vision assembly.
<p>NOTE:</p>	<ul style="list-style-type: none"> • Both the Vision System and the Laser Pointer will need to be verified and adjusted as required.
<p>NOTE:</p>	<ul style="list-style-type: none"> • Because the location of the vision cube and laser pointer have now moved, when adjusting the offsets in the software it is best to zero out the old offset numbers and start the alignment process from there.
<p>NOTE:</p>	<ul style="list-style-type: none"> • Refer to section 5.7 for vision system calibration. • Refer “Accurately Teaching the Laser Pointer position” work instruction.