

Essential Tools for Servicing Zeagle Scuba Regulators

Most of the tools needed for servicing Zeagle regulators, although available through Zeagle, are readily found at hardware stores around the world. However, there are two tools that can be classified as essential to the proper servicing of Zeagle Regulators and are available only through Zeagle.

One is the **Zeagle Pin Spanner Wrench p/n 347-0001**. This tool is used to remove and replace the diaphragm clamping rings on Zeagle 1st stages. There are other generic pin spanner wrenches on the market, but **ONLY** the Zeagle Pin Spanner Wrench has the proper contour, pin angle, pin size and strength to do the job without breaking or damaging the pin hole. The wrench itself is made from drop-forged steel and can develop much more force on the diaphragm clamp than can be exerted by hand on its short handle. For this reason, the technician should always use either a temporary extension like a box end wrench or something like a 15" long piece of ½" thin-wall conduit flattened and bolted to the spanner wrench. The picture above shows the standard pin spanner on the bottom, and above it, the pin spanner installed and bolted into a piece of flattened ½" thin-wall conduit by the technician. An old diaphragm or piece of leather inserted between the heel of the pin spanner and the diaphragm clamping ring can protect the surface of the clamping ring from scratches from the wrench. There is one other Pin Spanner Wrench p/n 347-0003, that is contoured to fit the End Cap on the Flathead-VI 1st stage.



Another Zeagle tool that can speed up the service procedure and protect the finish on most 1st stage regulators, is the Zeagle Regulator Service **Box p/n 347-1004**. This oak box is firmly clamped into a vise on the workbench.



The box is sized and shaped, so that most brands of 1st stages can be dropped inside and positioned so that the cap, diaphragm clamp, yoke bolt, etc. can be placed just above the box's edge. As the technician applies force on the wrench being used, the regulator will

wedge itself into the box so it will not turn. The wood surface of the box will protect the regulator from damage. This is much safer than potentially damaging the regulator's port threads with a port mounting tool.