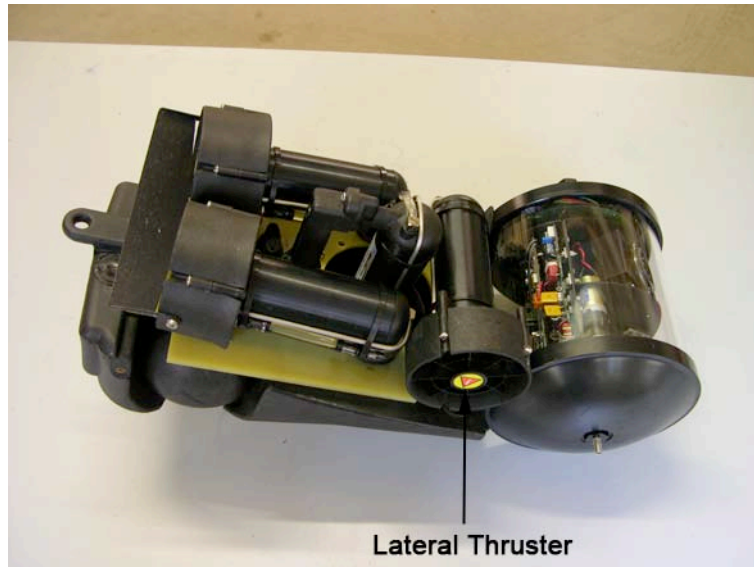


Lateral Thruster

Introduction

The LBV² is fitted with four (4) identical thrusters. They can be interchanged to any position. Each thruster is isolated from the main housing and other thrusters. They have a four (4) pin connector for power and data. There is an o-ring seal around the connector.



Work Environment

Prior to beginning ensure you have a clean and dry workspace. Locate the required tools and parts and have paper towels available. It is a good idea to have a container to keep fasteners in as they are removed. Read through the instructions fully prior to beginning and make sure you understand what they are asking you to do.

Reading Manual




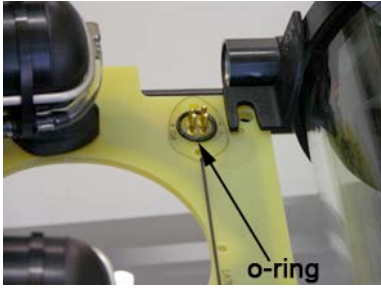
Below is a list of the required tools, estimated time to complete and level of difficulty. Next to each step where a tool is required the tool is listed. Some of the steps have special notes that must be observed.

Tools Required	Time to complete	Level of Difficulty
<ul style="list-style-type: none"> • #2 Phillips Screwdriver • O-ring lube 	<ul style="list-style-type: none"> • 5 minutes removal • 7 minutes install • 25 minutes including other procedures 	<ul style="list-style-type: none"> • Easy • Care required


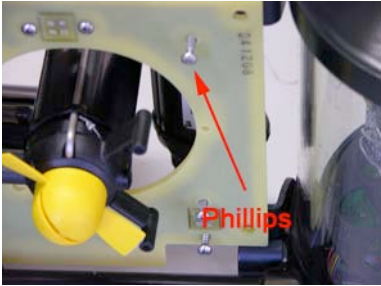
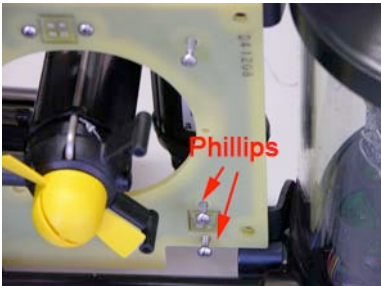


Prior to working on the LBV make sure the power is off and the umbilical is DISCONNECTED.

Removal

	<p>Prior to performing this procedure you must first follow these procedures:</p> <ul style="list-style-type: none"> • Flotation module removal • Shell/Bumper frame removal
	<p><u>Step 1</u></p> <p>Place LBV on its side.</p>
 <p>Phillips</p>	<p><u>Step 2 - #2 Phillips Screwdriver</u></p> <p>Remove the 3 Phillips pan head screws securing the lateral thruster to the back plane.</p>
	<p><u>Step 3</u></p> <p>Carefully separate the thruster by pulling straight from the back plane.</p>
 <p>o-ring</p>	<p><u>Step 4</u></p> <p>Be sure to remove o-ring from back plane if stuck.</p>

Installation

	<p><u>Step 1 – O-ring Lube</u></p> <p>Lubricate the o-ring and place in groove on thruster connector.</p>
	<p><u>Step 2</u></p> <p>Push the lateral thruster onto the 4 pins.</p> <p>Note: make sure you push on straight so as not to damage the pins.</p>
	<p><u>Step 3 - #2 Phillips Screwdriver</u></p> <p>Insert and tighten the forward Phillips pan head screw.</p>
	<p><u>Step 4 - #2 Phillips Screwdriver</u></p> <p>Insert and tighten the 2 Phillips pan head screws at the rear of the thruster.</p>

	<p>Once complete follow the procedures to:</p>
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- **Install flotation module**
- **Install Shell/Bumper Frame**