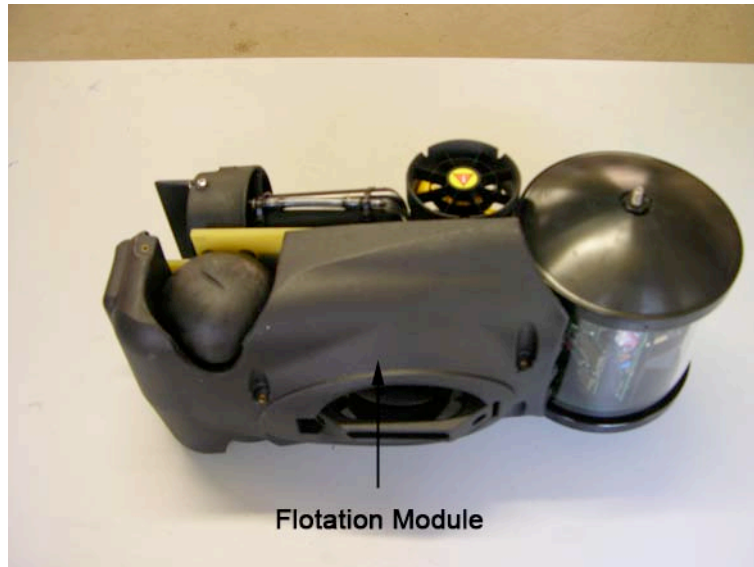


## Flotation Module

### Introduction

Providing buoyancy for the LBV<sup>2</sup> is the flotation module. The flotation module is located behind the protective shell. Mounting points for the shell are located on the flotation module as well as the front camera housing. The flotation module mounts directly to the back plane.



### 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

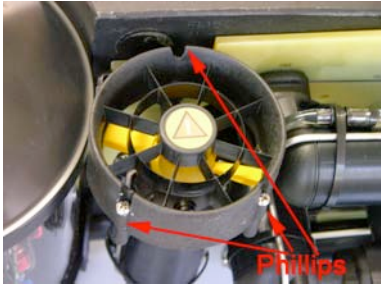
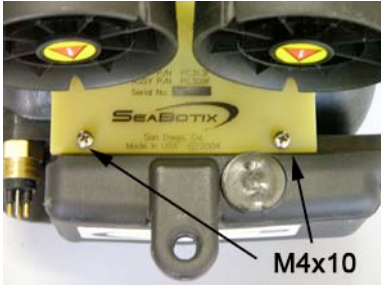
Below is a list of the required tools, estimated time to complete and level of difficulty. Next to each step where a tool is required the tool is listed. Some of the steps have special notes that must be observed.

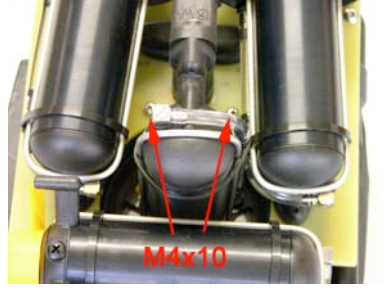
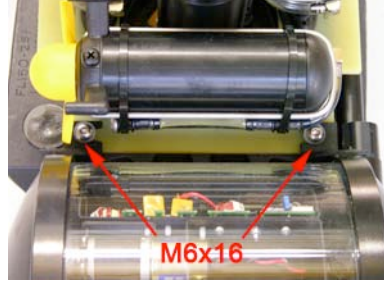

Tools Required	Time to complete	Level of Difficulty
<ul style="list-style-type: none"> <li>• #2 Phillips Screwdriver</li> <li>• 4mm Hex Ball Driver</li> </ul>	<ul style="list-style-type: none"> <li>• 5 minutes removal</li> <li>• 5 minutes install</li> <li>• 20 minutes including other procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Easy</li> </ul>




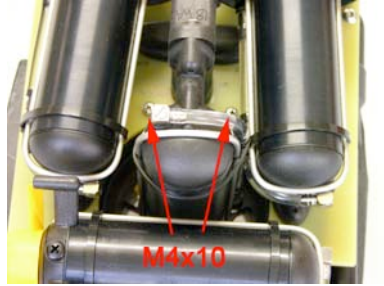
**Prior to working on the LBV make sure the power is off and the umbilical is DISCONNECTED.**

## Removal

	<p><b>Prior to performing this procedure you must first follow these procedures:</b></p> <ul style="list-style-type: none"> <li>• <b>Shell/Bumper frame removal</b></li> </ul>
	<p><b><u>Step 1</u></b></p> <p>Place the LBV upside down.</p>
 <p>M4x6</p>	<p><b><u>Step 2 – Phillips #2 Screwdriver</u></b></p> <p>Remove the 2 M4x6 Phillips pan head screws securing the rear trim tab to the thruster Kort nozzles.</p>
 <p>Phillips</p>	<p><b><u>Step 3 – Phillips #2 Screwdriver</u></b></p> <p>Remove the 3 Phillips pan head screws securing the lateral thruster Kort nozzle to the lateral thruster. Remove Kort nozzle.</p>
 <p>M4x10</p>	<p><b><u>Step 4 – Phillips #2 Screwdriver</u></b></p> <p>Remove the 2 M4x10 Phillips pan head screws at the rear of the flotation module.</p>

	<p><b><u>Step 5 – Phillips #2 Screwdriver</u></b></p> <p>Remove the 2 M4x10 Phillips pan head screws located in the middle of the flotation module near the vertical thruster elbow.</p>
	<p><b><u>Step 6 – 4mm Hex Ball Driver</u></b></p> <p>Remove the 2 M6x16 button head cap screws at the front of the float securing the camera housing end caps and flotation module.</p>
	<p><b><u>Step 7</u></b></p> <p>Holding the back plane with one hand raise the LBV allowing the flotation module to drop. Remove the flotation module.</p>

## **Installation**

	<p><b><u>Step 1</u></b></p> <p>Just as the flotation module was removed lift the LBV up to allow the flotation module to be centered under the LBV. Align the vertical thruster in the Kort nozzle pressed into the flotation module.</p>
	<p><b><u>Step 2 – Phillips #2 Screwdriver</u></b></p> <p>Insert and tighten SLIGHTY the 2 M4x10 Phillips pan head screws in the middle of the flotation module. This helps to align the flotation module for the other screws.</p>

	<p><b><u>Step 3 – Phillips #2 Screwdriver</u></b></p> <p>Insert and tighten the M6x16 button head cap screws into the forward part of the flotation module.</p> <p>Note: make sure the nylon washers are on the screws prior to installing.</p>
	<p><b><u>Step 4 – Phillips #2 Screwdriver</u></b></p> <p>Insert and tighten the 2 M4x10 Phillips pan head screws located at the rear of the float.</p> <p>Note: you might have to push the rear part of the float to align the holes.</p>
	<p><b><u>Step 5 – Phillips #2 Screwdriver</u></b></p> <p>Tighten the 2 M4x10 Phillips pan head screws at the middle of the flotation module.</p>
	<p><b><u>Step 6</u></b></p> <p>Push Kort nozzle onto lateral thruster aligning all three legs. Insert and tighten the Phillips pan head screws.</p> <p>Note: be careful not to over tighten and strip the threads.</p>
	<p><b><u>Step 7</u></b></p> <p>Insert and tighten the 2 M4x6 Phillips pan head screws securing the rear trim tab to the thruster Kort nozzles.</p> <p>Note: be very careful not to over tighten as you will strip out the threads.</p>

	<p>Once complete follow the procedures to:</p> <ul style="list-style-type: none"><li>• <b>Install Shell/Bumper Frame</b></li></ul>
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