

6. Lateral Thruster Replacement

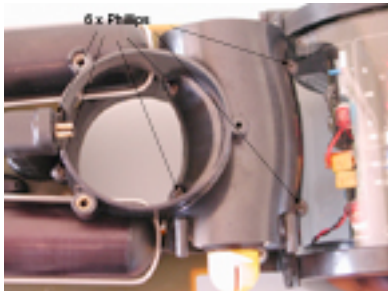
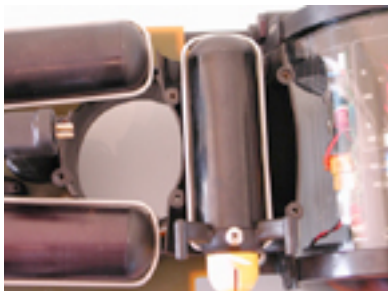
Prior to beginning ensure you have a clean and dry workspace. Lay out required tools from spares kit and have paper towels available. It is a good idea to have a container to keep fasteners in as they are removed. Read through the instructions fully prior to beginning and make sure you understand what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




Tools Required	Time to complete	Level of Difficulty
<ul style="list-style-type: none"> #2 Phillips Screwdriver Gel Lube 	<ul style="list-style-type: none"> 15 minutes 	<ul style="list-style-type: none"> Easy Care required





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

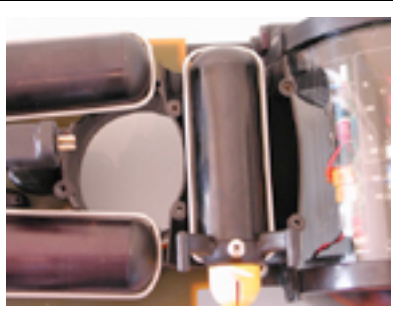
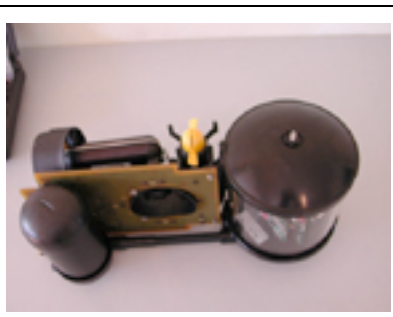

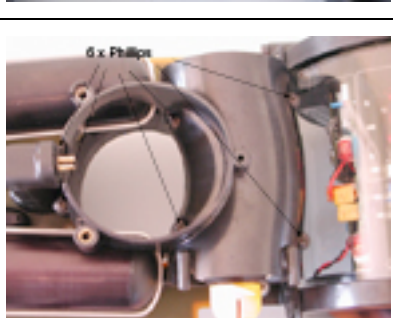
Removal

NOTE	<p>Follow instructions for removal of vertical thruster, float, shell, ballast tray and protective bumper frame prior to continuing.</p> <ol style="list-style-type: none"> Bumper Frame Replacement Ballast Tray Replacement Shell Replacement Float Replacement Vertical Thruster Replacement
	<p><u>Step 1</u></p> <p>Place vehicle upside down. Remove 6 x Phillips pan head screws securing top of thruster tunnel to bottom thruster tunnel.</p>
	<p><u>Step 2</u></p> <p>Remove top portion of thruster tunnel.</p>

	<p><u>Step 3</u></p> <p>Place LBV on starboard side.</p>
	<p><u>Step 4</u></p> <p>Remove 3 x Phillips pan head screws securing lateral thruster to back plane.</p>
	<p><u>Step 5</u></p> <p>Remove lateral thruster, lifting straight up.</p>

Installation

	<p><u>Step 1</u></p> <p>Place vehicle upside down.</p>
	<p><u>Step 2</u></p> <p>Clean lateral thruster connector pins. Put o-ring in groove. Apply gel lube to receptacles and o-ring.</p>

	<p><u>Step 3</u></p> <p>Push lateral thruster onto pins ensuring the thruster is straight.</p>
	<p><u>Step 4</u></p> <p>Place vehicle on starboard side.</p>
	<p><u>Step 5</u></p> <p>Insert and tighten 3 x Phillips pan head screw through back plane into prop end cap on thruster.</p>
	<p><u>Step 6</u></p> <p>Place vehicle upside down. Lower top portion of thruster tunnel into place and tighten 6 x Phillips pan head screws.</p>
<p>NOTE</p>	<p>Follow instructions for installation of vertical thruster, float, shell, ballast tray and protective bumper frame prior to continuing.</p> <ol style="list-style-type: none"> 6. Bumper Frame Replacement 7. Ballast Tray Replacement 8. Shell Replacement 9. Float Replacement 10. Vertical Thruster Replacement