

14. RF Modulator 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"> • Small straight blade screwdriver • #1 Phillips screwdriver 	<ul style="list-style-type: none"> • 20 minutes 	<ul style="list-style-type: none"> • Moderate • Electronics Care Required




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




Removal

<p>NOTE</p>	<p>Follow instructions to remove view port, shell, ballast tray and protective bumper frame prior to continuing.</p> <ol style="list-style-type: none"> 1. Bumper Frame Replacement 2. Ballast Tray Replacement 3. Shell Replacement 9. View Port Replacement
	<p><u>Step 1</u></p> <p>Place vehicle upside down.</p>
	<p><u>Step 2</u></p> <p>Rotate camera chassis until electronics are visible.</p>

	<p><u>Step 3 – (Small Straight Blade Screwdriver)</u></p> <p>With your thumb hold down surface mounted coaxial connector and with other hand pry up cable connectors. Be extremely careful as the surface mount connector can easily be pulled of the board.</p>
	<p><u>Step 4</u></p> <p>Repeat step 3 for second connector.</p>
	<p><u>Step 5</u></p> <p>Remove 3 M3x6 Phillips pan head screws securing RF Modulator board to motherboard.</p>
	<p><u>Step 6</u></p> <p>Remove RF modulator board.</p>

Installation

	<p><u>Step 1</u></p> <p>Locate new RF modulator board.</p>
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	<p><u>Step 2</u></p> <p>Carefully lower new RF board onto pins aligning mounting holes. Failure to align holes will cause damage to RF board.</p>
	<p><u>Step 3</u></p> <p>Insert and tighten 3 x M3 Phillips pan head screws securing RF board to motherboard.</p>
	<p><u>Step 4</u></p> <p>Carefully push coaxial connectors onto coaxial connectors on RF modulator board.</p> <p>Green is data (center of camera chassis) Red is video (outside of camera chassis)</p>
<p>TEST</p>	<p>Test RF board prior to installing view port.</p>
<p>NOTE</p>	<p>Follow instructions to install view port, shell, ballast tray and protective bumper frame.</p> <ol style="list-style-type: none"> 1. Bumper Frame Replacement 2. Ballast Tray Replacement 3. Shell Replacement 9. View Port Replacement