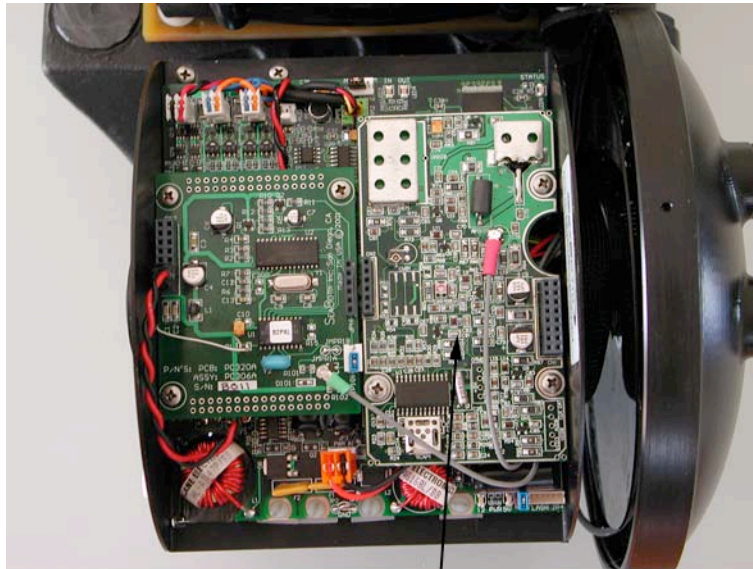


RF Modulator

Introduction

Mounted on the motherboard is the RF modulator. This board is responsible for the data communications as well as the video transmission. Care must be taken with the connectors.



RF Modulator

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.

Be very careful when handling electronics. Use a grounding strap and avoid any static that may damage the boards.

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"> • Small straight blade screwdriver • #1 Phillips screwdriver 	<ul style="list-style-type: none"> • 5 minutes • 30 minutes including all procedures 	<ul style="list-style-type: none"> • Moderate • Electronics 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">• View port removal
	<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</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 - #1 Phillips Screwdriver</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>
	<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 - #1 Phillips Screwdriver</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>Once complete follow the procedures to:</p> <ul style="list-style-type: none">• Install view port