

<b>Date</b>	23 APR 2014	<b>Service Note #</b>	4300-1099	<b>Updated</b>	NA
<b>Product</b>	DS/EVO 4300		<b>Created By</b>	Joey Yangco	
<b>Description</b>	Detaching and Unlocking the Anti-backlash Nut				

<b>Release</b>	<input checked="" type="checkbox"/>	<b>Internal</b>	<input checked="" type="checkbox"/>	<b>Distributors</b>	<input checked="" type="checkbox"/>	<b>Customers</b>
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Tools Required	Serial Numbers Affected
9/64 inch Hex Key 2 pair of Locking Pliers	All

## Detaching and Unlocking the Anti-backlash Nut

**Reason:** The anti-backlash nut does not release properly preventing the collector carriage from moving forward or backwards.

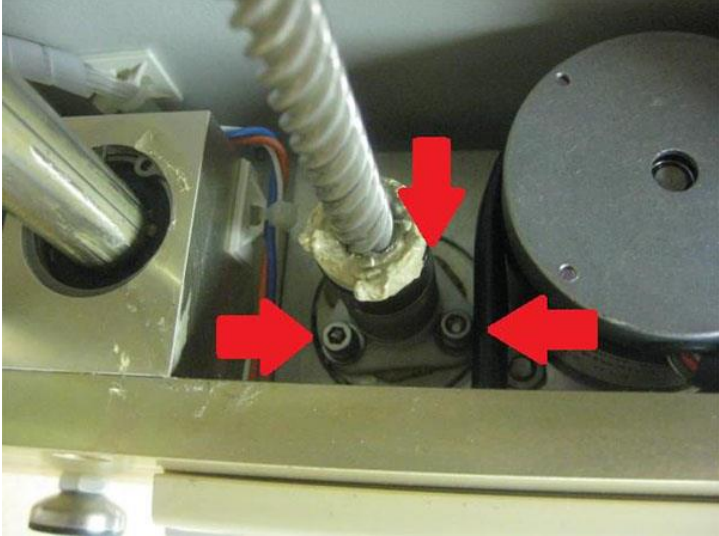

**Pre-requisite:**

Service Engineer or person performing this service must have proper training in servicing the instrument.

**Solution / Action**



**Before proceeding, discharge any static electricity from your body by touching a bare screw from the instrument. Turn off the instrument and disconnect the AC power cord.**

<b>Step 1</b>	Carefully place the collector on its side. Be careful not damage the rear collector tubing.
<b>Step 2</b>	<p>Locate the anti-backlash nut and remove the three screws using a 9/64 inch hex key wrench as shown.</p>  <p style="text-align: center;"><b>Step 2</b></p>
<b>Step 3</b>	<p>Rotate the anti-backlash nut by hand to move it forward until you can access the white and black pieces of the nut as shown.</p>  <p style="text-align: center;"><b>Step 3</b></p>

<p><b>Step 4</b></p>	<p>Using two pair of locking pliers as shown, loosen the black portion from the white portion of the nut. You only need to rotate the black piece 1/8 of a turn to break it free from the white piece.</p> <div> </div>
<p><b>Step 5</b></p>	<p>Reinstall the anti-backlash nut.</p>
<p><b>Step 6</b></p>	<p>Place the collector in upright position. Carefully move the carriage by hand. The carriage should move smoothly without any binding. If the carriage does not move freely or smoothly repeat steps 1 to 4 or it is possible that the anti-backlash is worn out and needs replacement.</p>
<p><b>Step 7</b></p>	<p>Reconnect the power cord and power up the instrument. The carriage should move automatically and smoothly during the initialization cycle.</p>