

	<b>TOOL USE INSTRUCTION</b>	
	<b>Tool Number: NCT04534979</b>	<b>REV: 1.0</b>
	<b>Title: SEAT POSITION SENSOR - SET TOOL</b>	<b>DEPT: Service Engineering</b>

<b>Author</b>	Cailen Matz	<b>Approver(s)</b>	
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**Revision Log:**

REV	Revision Description (Reason for Change)	Author	Rev. Date
1.0	*DRAFT FOR PEER REVIEW*	C. Matz	8/13/2021

**Labor Code:**

[727020010 Sensor, Airbag, Seat Position, LH \(Remove and Replace\)](#)

[727020110 Sensor, Airbag, Seat Position, RH \(Remove and Replace\)](#)

**Tools Used With This Tool:**

Feeler Gauge

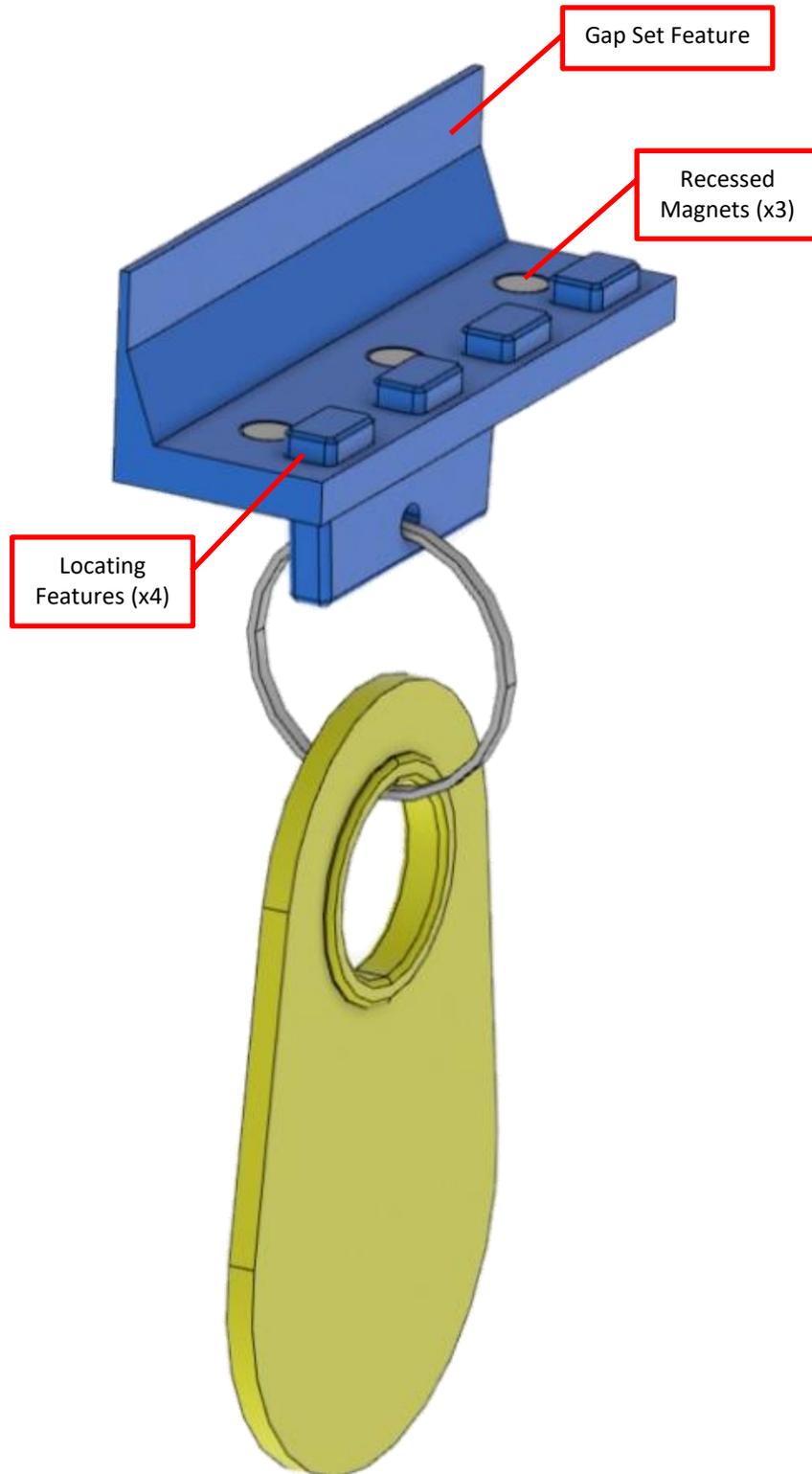
**Purpose:** This tool is used to set the proper gap between the seat rail and seat position sensor. The correct gap is crucial in ensuring proper deployment of airbag.

**Tool Inspection:**

1. Inspect the gap set feature for any damage prior to use.
2. Inspect seat rail mating face. 3x magnets should be embedded below the mating face to allow the tool to sit flush with the rail.

\*NOTE: Do not use tool if there is any damage. Contact the tooling team with any questions or requests for replacement parts. [ServiceToolEngineering@rivian.com](mailto:ServiceToolEngineering@rivian.com)

## Tool Diagram:





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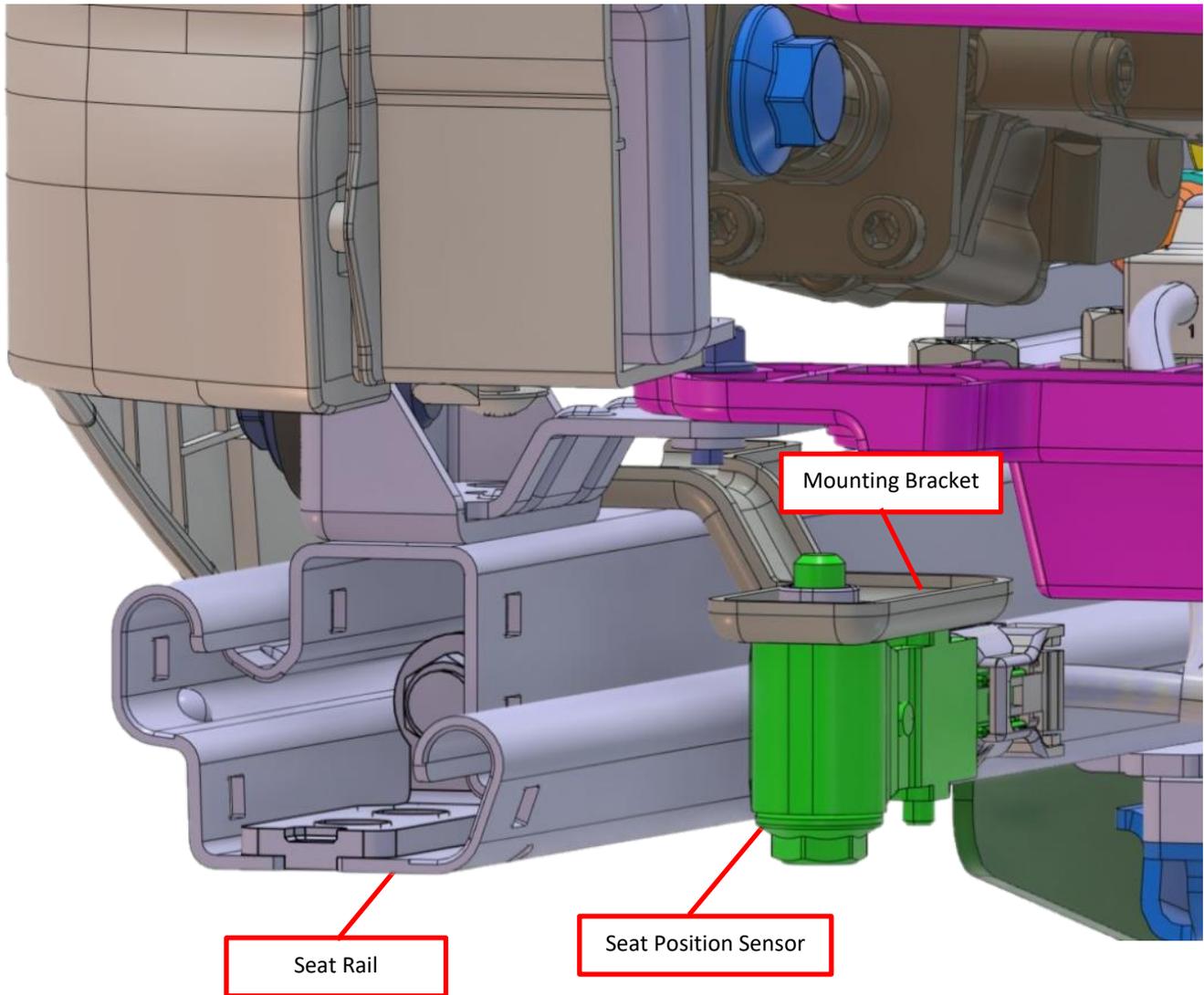
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#### Vehicle Diagram:





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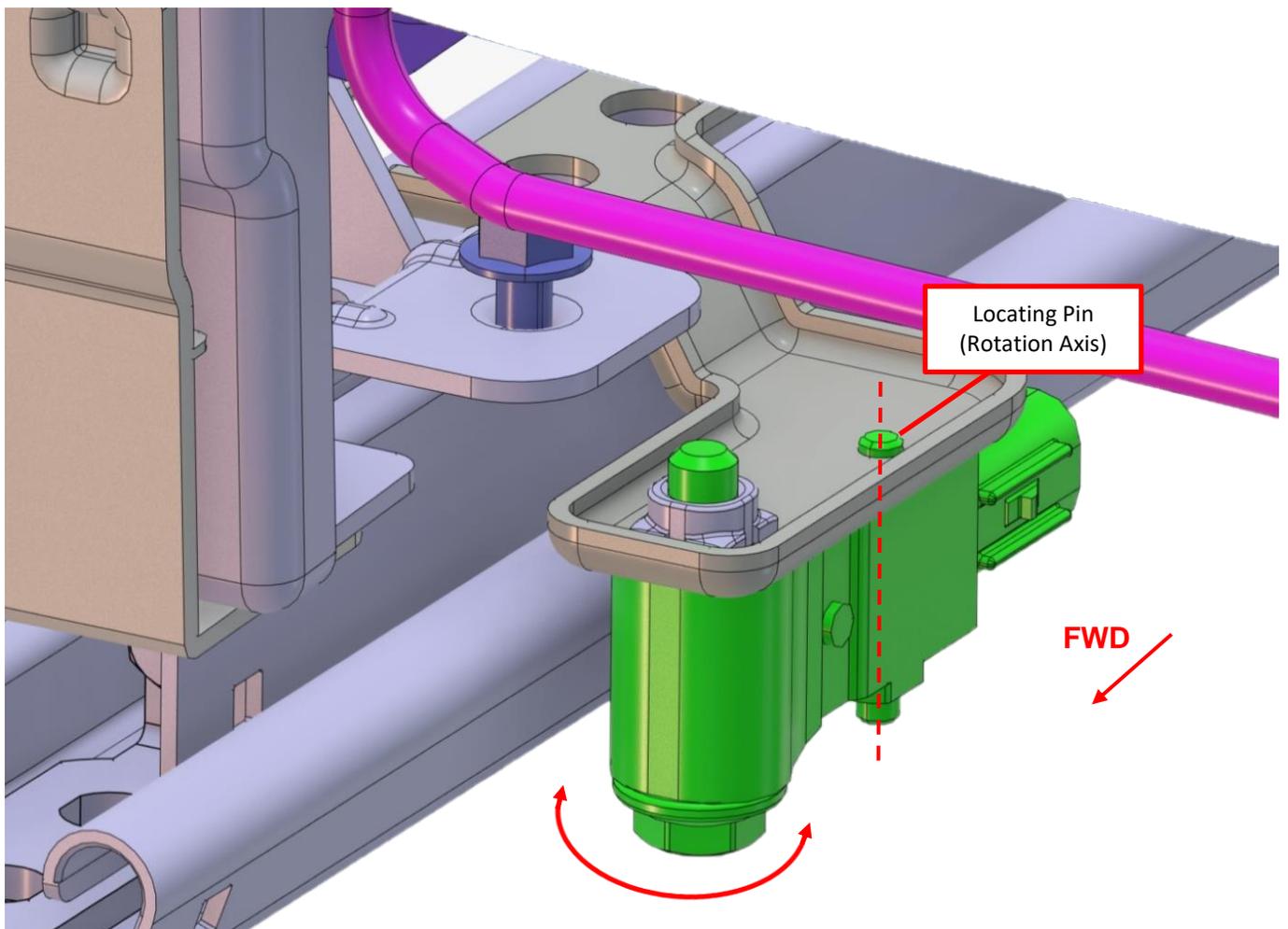
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### Using the Tool:

\*NOTE: Images shown are of driver's side, some vehicle components hidden for clarity.

1. Install the seat position sensor (SPS) to the mounting bracket. Ensure that the sensor can rotate freely about the locating pin (bolt finger tight and 12V harness connector disconnected).





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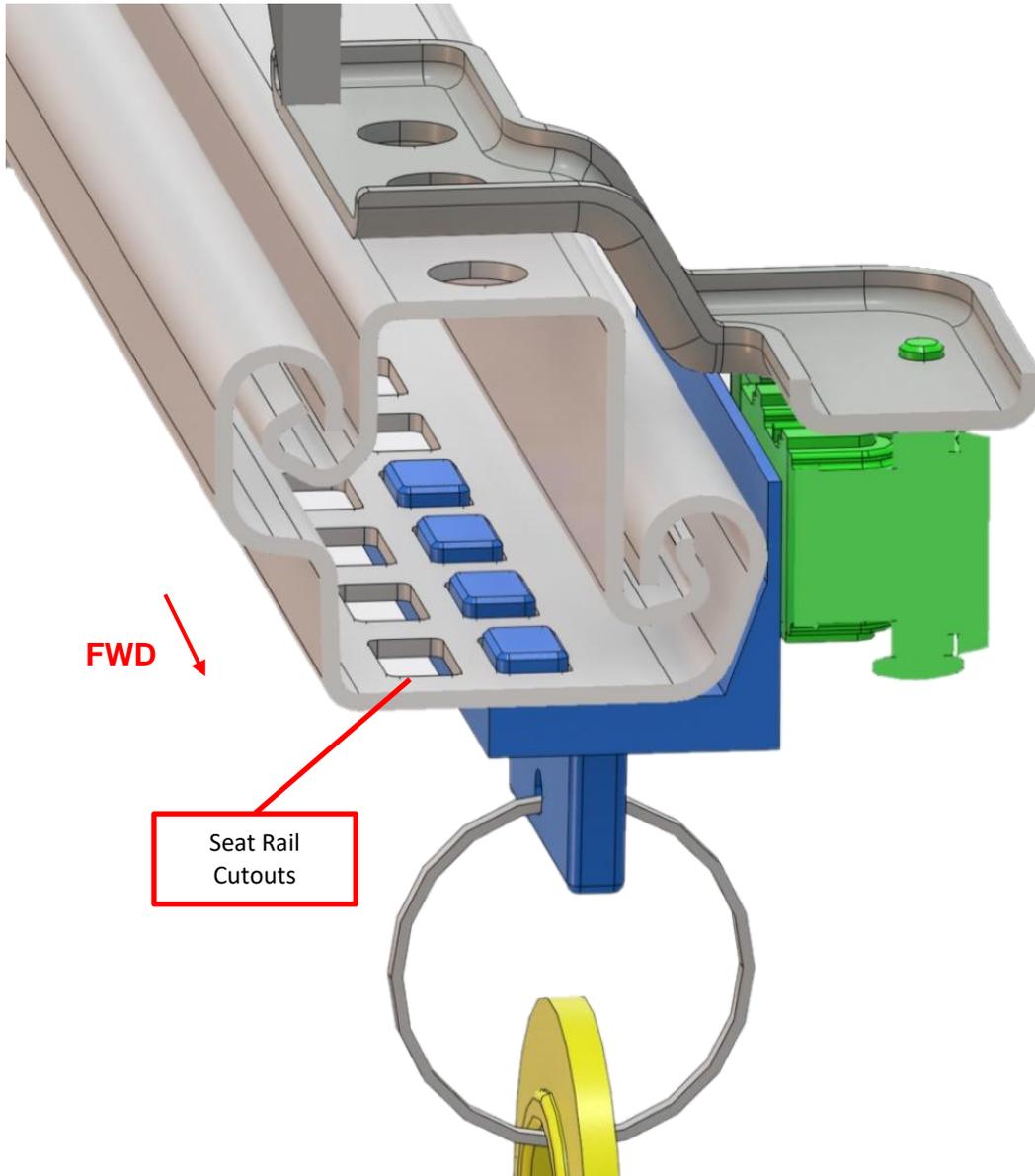
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2. Use the rectangular cutouts in the seat rail to position the set tool in between the rail and SPS.





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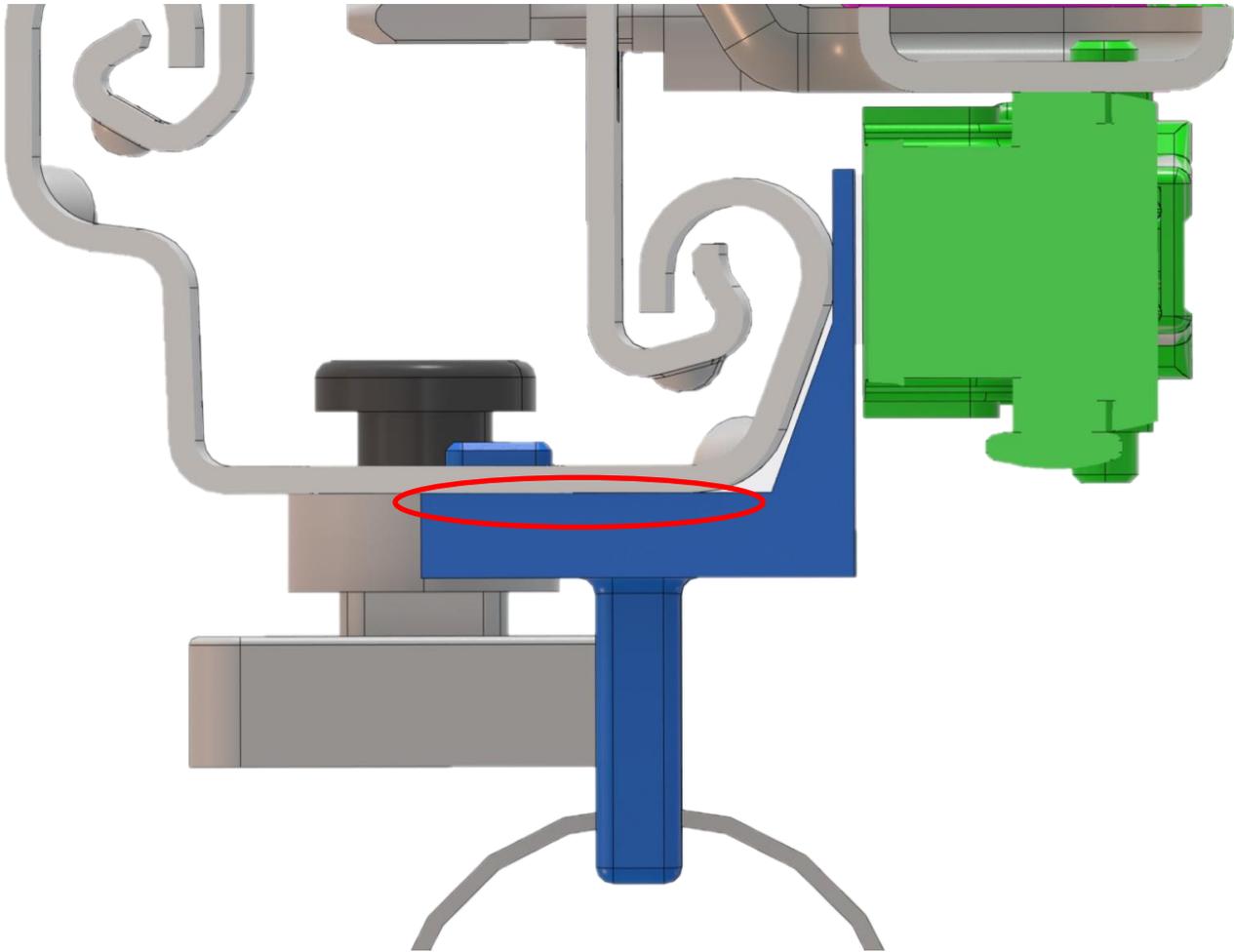
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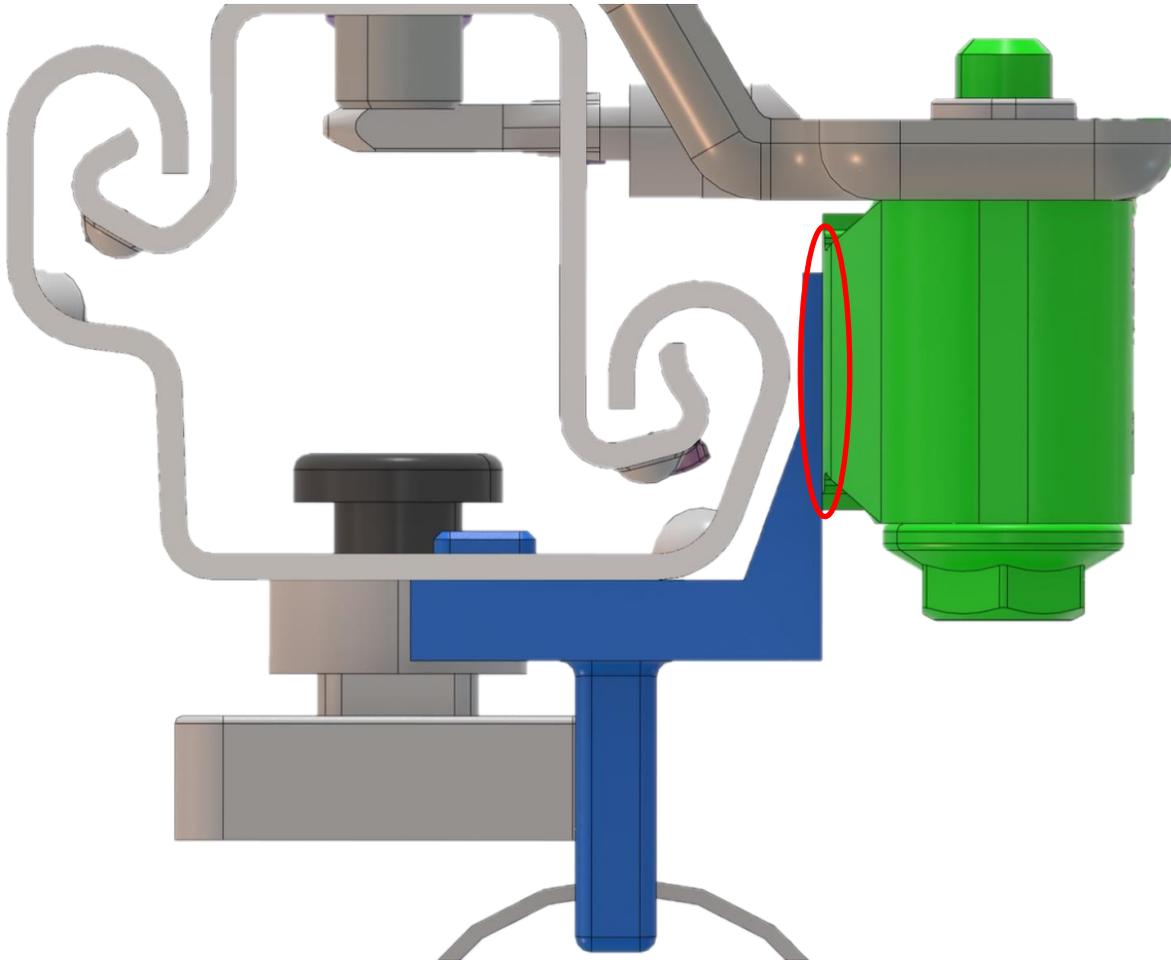
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3. Ensure the set tool sits flush with the bottom of the seat rail.



4. Rotate the SPS until it contacts the gap set feature of the tool and hand tighten the fastener.



5. Remove the set tool and torque fastener, reference service manual for torque values.
6. Verify gap with feeler gauge, reference service manual for gap tolerance.
7. Install the 12V harness connector to the SPS.