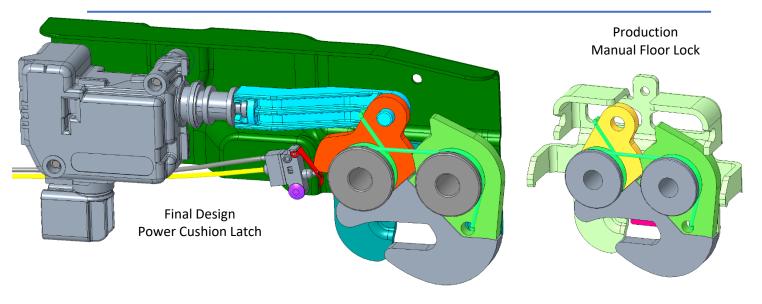
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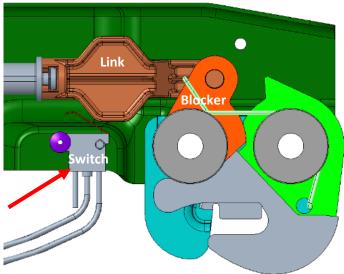
Engineering Your Competitive Edge...

Power Cushion Latch Assembly

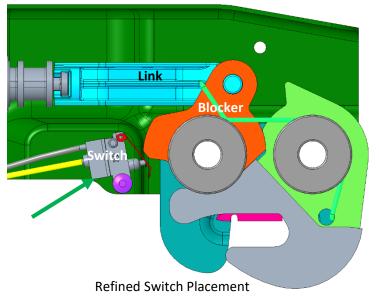
• Objectives:

- o Refine the design of a Power Release Cushion Latch which uses the basic components from an existing production cable release Floor Lock
- Evaluate the functional accuracy of the switch; the switch should flag the control module if the Latch is not fully locked
- Create production release drawings











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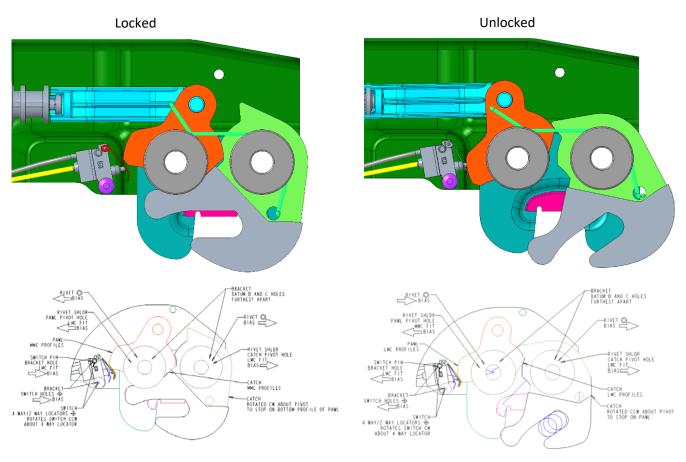
Power Cushion Latch Assembly

Process:

- o Acquired drawings for production lock parts, power actuator, and switch
- Completed tolerance stacks and motion studies
- Studies showed the original Switch placement, and actuation by contact with the Link,
 may give a false reading of locked when the latch was unlocked
- Changed the Switch trigger from the Link to the Blocker, achieving a higher precision actuation of the Switch
- Created production drawings and specified GD&T

Results:

- Redesigned switch placement and Blocker profile so that the switch actuates by contact with the Blocker instead of the Link
- Detection of "unlock" is more precisely controlled
- Released production drawings





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