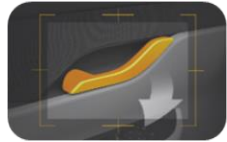


## Chevalier Exterior Smart Door Handle

Generation 2A, "GEN2A" for Fisker Ocean



Chevalier's **GEN2A** Exterior Handle offers a significantly improved revision based on Chevalier's own specification. The most significant of these improvements is the resolution of the safety critical issue of the Door Latch, which the Handle is connected to, by incorporating a compensatory mechanical arrangement within **GEN2A**. Another important improvement is the integration of a LED lens that is highly resistant to weathering.



### Improved Vehicle Safety

The Door Closure System, in the vehicle as launched, has fundamental safety issues. These are due to shortfalls in the design of the Door Latch Mechanism and Locking Control Software. These shortfalls which are behind the issue of vehicle entrapment were overlooked during vehicle development.

The Software shortfall issue was addressed in August 2023 by making changes to the BCM. This change was included in Fisker's Software Version 2.2, which was released in late 2024, but was never referenced in the Recall

Fisker did not address the most critical issue due to its complexity and associated cost. Instead, Fisker focussed their efforts on the peripherals with a view to ensure the components linked to the door latch are operating correctly under normal conditions, hence the issue of the Voluntary Recall.

The Voluntary Recall issued by Fisker and registered with NHTSA is related to a manufacturing issue affecting 3% of the Exterior Door Handles. This issue is instigated by excessive friction generated by one out-of-spec subcomponent of the handle. The effect of this friction causes the concerned handle to remain deployed after locking. The aim of the Recall is to replace any such affected handle to mitigate potential unlocking issues. It is important to note that this type of defect is conventionally classified as a standard OEM warranty issue and as such routinely treated by replacing.

However, this Recall was, to all intents and purposes, aimed at diverting away from the known very serious design issue within the Door Latch. The true objective of the voluntary recall was in fact intended to avoid facing the difficulty of having to replace all Door Latches with an appropriate design in every vehicle and having to crash-test and re-homologate the vehicle anew, which is a complex and very costly exercise. Thus, the critical hardware shortfall of the latch design remained unresolved. Consequently, the recall has no effect on resolving the safety critical issue of entrapment as evidenced in the numerous cases of egress and entrapment still being reported which simultaneously involves all 4 latches. The most serious of these is being trapped inside the vehicle, which can occur in a number scenarios such as in the event of sudden loss of power or where the Exterior Handles are iced up in the deployed position, and others. In fact, the Door Latch can be easily blocked by simply pulling on and holding the Interior Handle then unlocking using the switch on the driver door.

**In the GEN2A Handle, the safety critical risk of entrapment caused by the door latch has been definitively eliminated by integrating a preventative mechanism within the handle thereby rendering the need to replace the Door Latch redundant.**



### Upgraded LED Lens

The material chosen and adapted by Chevalier for **GEN2A** offers the highest level of resistance to UV, cationic elements exposure and much higher scratch resistance. The new lens has been adapted to produce the same effect and appearance as the original material specified, validated and approved by Fisker.



### Improved Power Actuator Performance

The Actuator that electronically deploys and retracts the handle has been upgraded to improve the overall performance. It now operates more efficiently and consistently with reduced noise.



### Recall Compliant

All **GEN2A** handles have undergone extensive quality checks prior to assembly to ensure every sub-component is dimensionally in spec. Once assembled, "End of Line" testing checks all mechanical and electrical functionality. This testing has been further expanded to include a confirmation of the retraction force using the same Chevalier inspection tool currently being used for the purpose of the Handle Recall.



### Warranty

The **GEN2A** handles come with a 2-year warranty covering materials and workmanship.