

## Car Tailgate Closing Quality Checks

**Customer:**

UK based automotive company

**Loadcell:**

F301-Z3282 20N

**Generic Type:**

Low range stylus loadcell

**Special Features:**

Low force  
Overload protection  
High deflection



A system was required by the customer to measure panel gaps of a road car tailgate. Normally a fixed wedge was used to set the gap but this did not take into consideration the nature of the closing force required.

A solution was to produce a portable loadcell system based on our F301 low range stylus loadcell to replace the existing wedges attached to the car body by magnets. This system had to be robust to withstand a production environment while also being able to measure low forces. A set of replaceable probes would deflect according to the panel gap and produce a reaction force to the closing action. The nature of the force or it's 'jerk' characteristic was checked to match the quality control profile.

