

# **The introduction of driving operation data test**

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# Driving operation data test

The methods used in the test to trigger the threshold shall include but not be limited to the following four ways:

I-**Impact vehicle** in such a way that vehicle reaches trigger threshold;

II-Fix vehicle on **trolley** and impact trolley in such a way that vehicle reaches trigger threshold;

III-**Physically trigger** EDR system of the vehicle in such a way that vehicle reaches trigger threshold;

IV-**Input the trigger signal** to EDR system of the vehicle in such a way that vehicle reaches trigger threshold.



I-impact vehicle



II-impact trolley



III-Physically trigger



IV-Trigger signal

## ***Test result judgment:***

- 1) The EDR system is triggered and the data shall be recorded;*
- 2) The data shall meet the recording requirements of Annex 4, Table 1;*
- 3) The records of relevant data shall be identical with the previous settings.*

# Test process-Physically trigger

**1. Preparation:**  
Replace all Non-reversible restraint of the vehicle with resistors



**2. Set vehicle status**



Control the pedal



Steer wheel



Turn Signal Switch



Buckle safety belt



Shift gear and park brake



Detect service brake

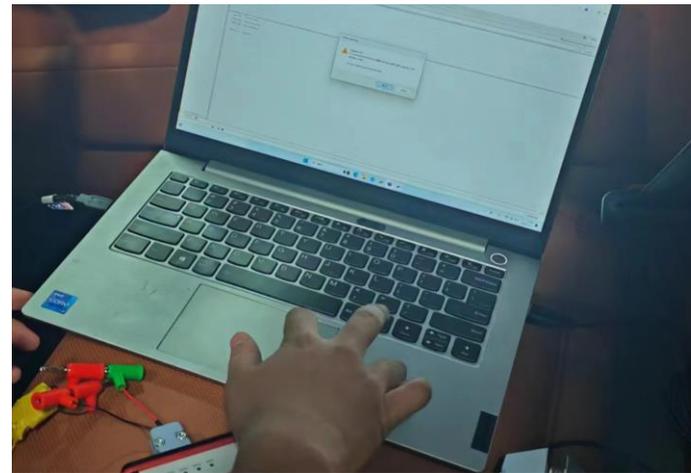
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# Test process-Physically trigger

3. Shake or impact the EDR to trigger



4. Read the recorded data and compare it with the set parameters to determine the result.



Source: Brown, R. and White, S., "Evaluation of Camry HS-CAN Pre-Crash Data," SAE Technical Paper 2012-01-0996, 2012

# Driving operation data test result

Set driving operation data Status	Before test set(e.g)	After test inspection(e.g)	Conformity
Service Brake, On and Off	On	On	Pass
Brake Pedal Position	100%	100%	Pass
Accelerator Pedal Position	30%	30%	Pass
Steering Angle	180°	180°	Pass
Safety Belt Status, Front Passenger	Buckled	Unbuckled	Failer
Driver Safety Belt Status	Buckled	Unbuckled	Failer
Turn Signal Switch Status	Left	Left	Pass

*According to the result, we think that provide the driving operation data test in regulations is necessary. We are willing to share our experience and talk this topic in the future.*

**Thank you!**