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What Your Car's Onboard Computer Knows About Your Last Trip

Our Friends · Tuesday, September 15th, 2026

Most drivers think of their car as a simple machine: turn the key, drive, park, forget about it until the next trip. In reality, modern vehicles are quietly recording far more than most owners realise, a stream of technical data capturing exactly how the car, and the person driving it, behaved in the moments that mattered most.

That data doesn't just sit there unused. Increasingly, it's being retrieved, analysed, and used as evidence, in insurance disputes, civil claims, and criminal matters alike.

The Black Box Most Drivers Don't Know They Have

Officially called an event data recorder, the technology most people know as a car's "black box" has been standard in the vast majority of new vehicles for well over a decade. According to the [National Highway Traffic Safety Administration](#), federal regulation under 49 CFR Part 563 sets out detailed requirements for what these devices must capture, how that data must be formatted, and how it must survive a crash intact and retrievable.

The regulation has continued to evolve. [NHTSA finalised updated requirements in December 2024](#) that extend the pre-crash recording window from five seconds to twenty seconds, and increase the sampling rate substantially, meaning newer vehicles will soon capture a considerably more detailed picture of the moments leading up to an incident than earlier generations of the technology allowed.

What Actually Gets Recorded

The data captured by these systems is more specific than most people expect. It typically includes vehicle speed, accelerator and brake application, steering input, seatbelt status, and whether and when an airbag deployed, all tied to a precise timeline before, during, and after a triggering event.

Most event data recorders are event-triggered rather than continuous, meaning they generally only retain data connected to a specific incident, like a crash or a sudden hard-braking event, rather than logging every moment of every trip indefinitely. Even so, that narrow window can be extraordinarily revealing, capable of establishing exactly how fast a vehicle was travelling, whether brakes were applied, and how a driver responded in the seconds before something went wrong.

Why This Matters Beyond Insurance Claims

Much of the public conversation about this technology focuses on civil disputes, insurance companies and personal injury claims relying on objective vehicle data to establish fault after a collision. But the same underlying technology, and the same underlying principle, that a car quietly records more than its driver realises, extends well beyond civil matters.

Vehicles increasingly integrate a wider range of connected systems beyond the crash-focused event data recorder, including infotainment logs, navigation history, and in some newer models, continuous telematics data shared with manufacturers. Collectively, these systems can build a surprisingly detailed picture of a vehicle's recent movements, well beyond what most drivers assume is being tracked.

The Overlap With Drug and Drink Driving Cases



Photo: Tim Foster via Unsplash

This becomes particularly significant in cases involving impaired driving. Vehicle data capturing erratic speed changes, unusual braking patterns, or a sudden loss of control can corroborate, or in some cases contradict, an officer's account of how a vehicle was being driven immediately before a stop or an incident.

That data doesn't determine impairment on its own, but it can become a meaningful piece of the broader evidentiary picture, alongside roadside testing, officer observations, and toxicology results. For anyone facing a charge in this area, understanding how vehicle data might factor into a case, and how it can be challenged or contextualised, matters considerably. Speaking with experienced **Josh Smith Legal drug driving lawyers** early in the process can help clarify exactly what role, if any, a vehicle's own data played in how a case was built, and what options exist for addressing it.

Who Actually Owns and Controls This Data

A common misconception is that this data belongs to police or insurers by default. In most jurisdictions, the data legally belongs to the vehicle's owner, though law enforcement, insurers, and opposing parties in litigation can generally access it through a warrant, subpoena, or court order once it becomes relevant to a case.

That distinction matters practically. Data retrieval typically requires specialised tools and, in contested cases, expert interpretation to establish what the recorded figures actually mean in context, rather than simply taking a raw data printout at face value.

A New Kind of Witness

The broader shift underway is worth understanding regardless of whether someone ever ends up involved in a legal dispute. Cars have quietly become witnesses to their own operation, recording objective, timestamped detail that can either support or undermine an account of what happened on the road.

For most drivers, this technology will never become relevant to their daily life. But for anyone facing a dispute, a claim, or a charge connected to how a vehicle was being driven, understanding

that this data exists, what it can reveal, and how it gets used, is an increasingly important piece of navigating the process with clear eyes.

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