

Ford Part Number Prefix	1W7A
Number Of Active Faults	0
Driver Seat Belt Buckle	Unbuckled
Passenger Seat Belt Buckle	Unbuckled
Driver Seat Track In Forward Position	No
Occupant Classification Status Value	Dual Stage
Unbelted Stage 1	Fire
Unbelted Stage 2	Fire
Belted Stage 1	Fire
Belted Stage 2	Fire
Driver Pretensioner	Fire
Passenger Pretensioner	Fire

The chart above shows some of the data stored in the EDR in the Ford product. According to this table, neither the driver nor the right front passenger was using the safety belt. This Ford automobile was equipped with pretensioners on the safety belts for the driver and right front occupant. A supplemental table, not printed here, shows that they were not fired; if the driver and passenger are not wearing their safety belts, there is no benefit to be derived from firing the pretensioners. If the safety belt is in use, however, the pretensioner will help limit forward travel of the person who is wearing that belt. This car was also equipped with dual-stage air bags, which were fired in stages due to the unbuckled condition of the driver and passenger, which events are also demonstrated on a supplemental data table not shown in this newsletter. The driver's seat was not in the fully forward position; such a condition may have limited the firing of the second stage of the driver's air bag. Aren't modern electronics marvelous? The occupant protection system in this car can sense whether or not a person is wearing the safety belt, fire the pretensioner if he is, and deploy the air bag in one or two stages depending on the use of the safety belt and the position of the seat, making these decisions and commanding these actions all within a few thousandths of a second. (It takes 1000 milliseconds to make one second.) What good old days?

Thank you for reading this newsletter. Please contact me if you are interested in EDR downloads from late-model GM and very-late-model, selected Ford products or whenever you have need of the many accident-related services I offer.

**Ralph Cunningham
Accident Reconstructionist**

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