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IDELSY

Initiative for Diagnosis of Electronic Systems in Motor Vehicles for PTI

Project details	
Domain	Vehicle Technology: Periodic Technical Inspection
Duration	from 01/01/2004 until 01/12/2005
Website	
Other sources	 Final Report (1,79 MB)  Management Summary (795 kB)

A wide variety of complex, electronically regulated systems are responsible for safety-relevant functions in modern motor vehicles. These systems can increasingly be tested by means of an off-board diagnosis unit with universal diagnosis tools. In addition, a standardised diagnosis interface is physically present in the vehicle in the shape of the so-called CARB interface which is required by law. The manufacturer-specific diagnosis protocols of the individual subsystems can be accessed via this interface using suitable diagnosis devices (which, however, are not standardised).

Legal regulations already exist with regard to the design and integration of OBD systems in the regular monitoring of exhaust gas emissions (in Germany - AU).

In the case of safety-relevant vehicle systems, the electronic system components generate a wide variety of different system states which must be assessed within the framework of the main test. The safe system state of operational readiness must be capable of recognition.

The technical inspection service has to prepare itself for dealing with complex electronic systems within the framework of regular vehicle inspection, in order to ensure the road safety of modern vehicle concepts on an ongoing basis for the benefit of clients and consumers.

Following the CITA Workshop on 16.01.2003 at the IKA (Institut für Kraftfahrwesen) in Aachen and the studies of reliability of electronic components from the CITA working group "Electronic" there is current need for action. From the point of view of the EU Commission it is desirable that member states identify with this subject, develop test procedures, discuss these with all the relevant interest groups and contribute proposals for modifications to "European Law".

For the aforementioned reasons and using the experience already available, the project partners decided to develop test procedures and to test them to ensure that they are suitable for use in practice.

The general target of this project is to improve the existing 96/96/EC Regulation for solving the new vehicle technology, which is more and more electronically controlled and relevant for the road safety while proceeding PTI.

Coordinator

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