

---

## Overview

This standard is about identifying and rectifying faults occurring in Advanced Driver Assistance Systems (ADAS) by carrying out diagnostic activities and then removing, replacing and recalibrating sensors. ADAS includes systems for driver safety, pedestrian safety, motion/stability control and collision avoidance systems.

## Performance criteria

### *You must be able to:*

P1 use appropriate personal and vehicle protective equipment when carrying out testing, diagnosis and rectification activities

P2 support the identification of **Advanced Driver Assistance System** faults, by reviewing vehicle:

P2.1 technical data

P2.2 diagnostic test procedures

P3 confirm and record presence and type of ADAS systems and sensors

P4 follow up-to-date and relevant industry codes of practice at all times

P5 prepare and check the required **testing and diagnostic equipment** following manufacturer's instructions prior to use

P6 use all **tools and equipment** required for your diagnostic and rectification activities, correctly and safely throughout

P7 use **testing techniques** which are relevant to the symptoms presented and ADAS system type

P8 collect diagnostic information in a logical and systematic way to enable an accurate diagnosis of Advanced Driver Assistance System faults

P9 identify and record any system deviation from acceptable limits

P10 make cost effective, accurate recommendations for rectification based on your analysis of the diagnostic information gained

P11 carry out all diagnostic and rectification activities following:

P11.1 manufacturer's instructions

P11.2 recognised researched replacement methods

P11.3 health, safety and environmental requirements

P12 work in a way that minimises the risk of:

P12.1 damage to other vehicle systems

P12.2 damage to other components and units

P12.3 contact with leakages

P12.4 contact with hazardous substances

P13 ensure the **calibration environment** is as identified by the manufacturer's instructions

P14 ensure all replacement components and parts in the proximity of **sensors** conform to the vehicle manufacturer's specification and any legal requirements

P15 **recalibrate** Advanced Driver Assistance System **sensors** correctly to ensure that they operate to meet vehicle system requirements and function to the vehicle manufacturer's specified tolerances

P16 record the recalibration has been successfully completed and meets vehicle manufacturer's specified tolerances

P17 ensure your records are accurate, complete and passed to the relevant person(s) within the agreed timescale and in the format required

P18 complete all diagnostic and rectification activities within the agreed timescale

IMILV19

Diagnose, remove, replace and recalibrate motor vehicle Advanced Driver Assistance System components



---

P19report any anticipated delays in completion to the relevant person(s) promptly

IMILV19

Diagnose, remove, replace and recalibrate motor vehicle Advanced Driver Assistance System components



---

## Knowledge and understanding

*You need to know and understand:*