
Overview

This standard is about the removal and fitting of mechanical, electrical and trim (MET) components to vehicles to carry out a PDR repair. It also includes verifying the operation and carrying out adjustments to components once fitted.

Note: These may include safety/ADAS related components.

Performance criteria

You must be able to:

- P1. use the appropriate personal protective equipment when removing and fitting MET components
- P2. protect the vehicle and its contents effectively when removing and fitting MET components
- P3. accurately assess the vehicle for pre-existing damage and serviceability of systems and components prior to work commencing
- P4. select, check and use the correct tools and equipment for the components you are going to remove or fit
- P5. ensure that the tools and equipment you require are in a safe working condition
- P6. remove and fit MET components following:
 - P6.1. removal and fitting instructions
 - P6.2. manufacturer's instructions
 - P6.3. your workplace procedures
 - P6.4. health, safety and legal requirements
- P7. protect other components, units and panels on the vehicle whilst carrying out the removal and fitting activity
- P8. store all removed components safely in the correct location
- P9. check that the components you have fitted operate correctly following the manufacturer's specification
- P10. check there are no faults stored in any system control units following the refitting activity (where applicable)
- P11. report any additional faults you find during the course of your work to the relevant person(s) promptly
- P12. complete all removal and fitting activities within the agreed timescale
- P13. complete work records accurately, in the format required and pass them promptly to the relevant person(s)
- P14. promptly report any delays in completing your work to the relevant person(s)

Knowledge and understanding

You need to know and understand:

Legislative and organisational requirements and procedures

- K1 the health, safety, environmental and legal requirements relating to the removal and fitting of MET components
- K2 your workplace procedures for:
 - K2.1 the referral of problems
 - K2.2 reporting of delays to the completion of work
 - K2.3 completion of work records
- K3 the work that needs to be done and the standard required
- K4 the requirements for protecting the vehicle and contents from damage before, during and after removing and fitting activities
- K5 the importance of selecting, using and maintaining the appropriate personal protective equipment when removing and fitting MET components

Removing and fitting MET components

- K6 how to find, interpret and use sources of information applicable to the removal and fitting of MET components
- K7 how to select, check and use all the tools and equipment required to remove and fit MET components
- K8 the correct procedures for removing and fitting MET components
- K9 the methods of storing removed components and the importance of storing them correctly
- K10 the implications of working near supplementary safety systems
- K11 the different types of vehicle systems and the effects an incorrect repair could have on their operation
- K12 the different types of fastenings and fixings and the reasons for their use
- K13 the need for correct alignment of panels and components and the correct methods used to achieve this
- K14 the importance of carrying out the correct programming procedure for one-touch window operation
- K15 the types of quality checks that can be used to ensure correct operation of components and systems to manufacturer's specification and their purpose

Scope/range

1. **MET components** include:
 - 1.1. bumpers
 - 1.2. bonnet and boot lid trim
 - 1.3. interior trim components
 - 1.4. exterior trim components

2. **Tools and equipment** are:
 - 2.1. spanners
 - 2.2. socket set
 - 2.3. screwdrivers
 - 2.4. manufacturer's special tools
 - 2.5. pliers and self-locking grips
 - 2.6. diagnostic scan tool/code reader
 - 2.7. axle stands

3. **Systems** are:
 - 3.1. lane departure warning systems
 - 3.2. rear view cameras
 - 3.3. reverse backup sensors
 - 3.4. automatic braking
 - 3.5. side view assist
 - 3.6. parking assist

IMIVCR02

Remove and fit mechanical, electrical and trim (MET) components for paintless dent removal or simple cosmetic repair



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