

Overview

This standard is about removing, replacing and/or refitting a combination of body panels within an area using mechanical fastening.

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**Performance
criteria**

- You must be able to:
- P1 identify component materials involved in the construction of the vehicle in the areas that will be worked on during repair, prior to working on the vehicle
 - P2 use the appropriate Personal Protective Equipment (PPE) when removing and replacing body panels
 - P3 protect the vehicle, its contents and systems effectively when removing and replacing body panels
 - P4 inspect, prepare and use all the tools and equipment required following manufacturers' instructions
 - P5 remove, replace and/or refit all necessary body panels and components following:
 - P5.1 the manufacturer's methods/instructions
 - P5.2 recognised researched repair methods
 - P5.3 your workplace procedures
 - P5.4 the vehicle work specification
 - P5.5 health, safety and legal requirements
 - P6 promptly seek assistance from the relevant person(s) where there is the potential for your work to disturb other vehicle systems
 - P7 store all removed components safely in the correct location and in accordance with relevant legislation
 - P8 use replacement body panels and components which conform to the vehicle specifications for dimensions, materials and functional capability
 - P9 use and apply body component anti-corrosion materials and joining materials conforming to the manufacturer's specification
 - P10 ensure panels are removed and replaced minimising damage to mating surfaces (any damage caused should be correctly reinstated)
 - P11 ensure panels are replaced without incurring damage to the vehicle systems
 - P12 ensure all refitted body panels and components are aligned correctly with adjacent panels and fittings
 - P13 complete all activities within the agreed timescale
 - P14 promptly report any anticipated delays in completion to the relevant person(s)

Knowledge and understanding

You need to know and understand:

- K1 the health and safety legislation and workplace procedures relevant to workshop practices and Personal Protective Equipment (PPE)
- K2 the agreed vehicle work specification
- K3 the importance of working to agreed timescales and keeping others informed of progress
- K4 the relationship between time, cost and profitability
- K5 the requirements for protecting the vehicle and contents from damage before, during and after removing and fitting activities
- K6 your workplace procedures for the referral of problems and reporting delays to the completion of work
- K7 the importance of promptly reporting anticipated delays to the relevant person(s)
- K8 how to prepare, test and use the tools and equipment required for the removal, replacement and/or refitting of body panels and ancillary fittings
- K9 the properties of component materials involved in the construction of the vehicle in the areas that will be worked on during repair
- K10 the properties and safe use of body component sealants, adhesives and anti-corrosion materials
- K11 the type of sealants and anti-corrosion materials to use and the manufacturer's recommended methods for their application and thickness
- K12 how to apply sealants and anti-corrosion materials
- K13 how to interpret and use sources of information relevant to the removal and refitting of body panels
- K14 the need for correct alignment of panels and the methods used to achieve this
- K15 the types of quality control checks that can be used to ensure correct alignment and contour of panels and operation of components to manufacturer's specification
- K16 how to work safely avoiding damage to the vehicle and its systems
- K17 the methods of storing removed components and the importance of storing them correctly and in accordance with legal requirements

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- K18 the removal and replacement procedures for body panels using mechanical fastening techniques
 - K19 how panel removal and refitting affects the overall body structure of the vehicle
 - K20 the manufacturer's approved methods of working for the removal and replacement of body panels
 - K21 the difference between the types of replacement parts available
 - K22 the potential implications of fitting a recycled or refurbished part

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Scope/range

All of the items listed below form part of this National Occupational Standard.

1. **Body panels** include combinations of 3 or more adjacent panels (Examples of this include: two doors and a wing; two wings and a bonnet; bonnet, wing and door on the same side; bumper, wing and bonnet; bonnet, wing and bolted on front panel).
2. **Materials** include all component materials in the repair area.
3. **Fitting methods** include mechanical fastening.
4. **Tools and equipment** are:
 - 4.1. generic hand tools
 - 4.2. manufacturer's specified and specialist tools
 - 4.3. workshop equipment

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