

Remove Dents and Creases from Motor Vehicle Flat Panels

Overview

This standard is about the straightforward removal of dents and creases from motor vehicle flat panels. It is also about checking the integrity of the panel prior to repair and the condition of the panel after the repair has been completed. The damage may be either a single area of damage or two areas of damage that are contained within a 100mm radius.

Remove Dents and Creases from Motor Vehicle Flat Panels

Performance criteria

You must be able to:

1. use the appropriate personal protective equipment when carrying out Paintless Dent Removal (PDR) operations
2. protect the vehicle and its contents effectively when carrying out Paintless Dent Removal (PDR) operations
3. assess the area for repair to ensure that a repair can be effected to an acceptable standard without compromising the integrity of the vehicle
4. identify additional distortion on a panel caused by a primary impact
5. select and use the appropriate tools and equipment for the panel area you are going to repair
6. ensure that your tools and equipment are in a safe working condition
7. avoid damaging other components and units on the vehicle whilst carrying out the repair
8. store all removed components safely in an appropriate location
9. check that all relevant components operate correctly following the manufacturer's specification before and after you have completed your repairs
10. report any potential or additional faults you find during or prior to the course of your work to the relevant person(s) promptly report any delays in completing your work to the relevant person(s) promptly
11. carry out your repair within the agreed timescale
12. complete work records accurately, in the format required and pass them to the relevant person(s) promptly
13. check that any areas you have used to gain access are treated for corrosion inhibition where appropriate – note the whole area needs to be returned to pre-damaged condition

Remove Dents and Creases from Motor Vehicle Flat Panels

Knowledge and understanding

You need to know and understand:

1. the health, safety and legal requirements relating to the removal of damage using Paintless Dent Removal (PDR) techniques
2. your workplace procedures for the referral of problems, reporting of delays to the completion of work and completion of work records
3. how to assess the size, depth and plane of damage, and recognise any additional damage and identify the best course of action to carry out a repair to the standard required
4. how the panel material affects the complexity of the repair
5. the action you need to take if the repair cannot be carried out to the required standard
6. the requirements for protecting the vehicle and contents from damage before, during and after repairing panels using Paintless Dent Removal (PDR) techniques
7. the requirements for protecting the vehicle being repaired from cross contamination including metallurgy and electrolysis
8. the importance of selecting, using and maintaining the appropriate personal protective equipment when repairing panels using Paintless Dent Removal (PDR) techniques
9. the importance of maintaining your tools in a safe working condition
10. how to find, interpret and use sources of information applicable to the safe repair of panels using Paintless Dent Removal (PDR) techniques (this information may be in the form of advice and guidance from your mentor or trainer and or manufacturer data)
11. how to select, check and use all the tools and equipment required to repair panels effectively using Paintless Dent Removal (PDR) techniques
12. the different types of Paintless Dent Removal (PDR) techniques and methods used for repairing panels
13. the faults that can occur when repairing panels using Paintless Dent Removal (PDR) techniques and the causes of these faults, including the dangers of damaging wiring, protective coatings or SRS systems
14. the types of quality control checks that can be used to ensure a correct repair has been achieved
15. the need for correct alignment of components and the methods used to achieve this
16. the types of quality checks that can be used to ensure correct alignment and operation of components to manufacturer's specification and their purpose

Remove Dents and Creases from Motor Vehicle Flat Panels

Scope/range

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

Scope of this standard:

1. Examples of Tools and Equipment specific to Paintless Dent Removal (PDR) are:

- Hand tools
- Lever bars
- Power tools
- Specialist Paintless Dent Removal (PDR) tooling and accessories

Range of this standard:

2. Flat Panels:

For the purpose of this standard a flat panel is defined as a panel area that contains no swage line, body line or defining contours.

Note: The panel itself may contain convex curvature as part of the overall structure. Such as, Bonnet, Doors, Roof etc.

3. Drilling:

For the purpose of this standard drilling to gain access to effect a repair is not acceptable.

4. Acceptable Repair:

For the purpose of this standard an acceptable repair is one that is assessed by a qualified Paintless Dent Removal (PDR) Assessor that would meet the normal expectations of a customer.

In general terms the acceptable standard would be that the panel is returned to original condition without any visible sign that a repair has been carried out.

Remove Dents and Creases from Motor Vehicle Flat Panels

Developed by	IMI
Version Number	2
Date Approved	December 2014
Indicative Review Date	December 2017
Validity	Current
Status	Original
Originating Organisation	IMI
Original URN	IMIARPDRCR01
Relevant Occupations	PDR Technician (Automotive); PDR Senior Technician (Automotive)
Suite	Accident Repair - SMART - PDR
Keywords	Remove Dents Creases Motor Vehicle Flat Panels