

Overview

This standard is about removing and replacing a non-hydraulic cycle braking system so that the cycle is left in a safe and roadworthy condition.

In this standard the term 'cycle' includes pedal-propelled vehicles with two, three or four wheels. It may also include pedal-assisted e-bikes:

- Road legal up to 15.5 mph with a motor with an output of up to 250w
- E-cycles used for other purposes

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Performance criteria

- You must be able to:
- P1 use suitable personal protective equipment throughout all cycle non-hydraulic braking system remove and replace activities
 - P2 ensure the cycle and the work area is safe prior to work commencing
 - P3 support your removal and replacement activities by reviewing:
 - P3.1 cycle technical data
 - P3.2 removal and replacement procedures
 - P3.3 legal requirements
 - P4 identify components relevant to a cycle non-hydraulic braking system
 - P5 prepare, check and use all the equipment required following manufacturer's instructions
 - P6 carry out all cycle non-hydraulic braking system remove and replace activities following:
 - P6.1 manufacturer's instructions
 - P6.2 industry recognised methods
 - P6.3 your workplace procedures
 - P6.4 health, safety and environmental requirements
 - P7 work in a way which minimises the risk of:
 - P7.1 damage to the cycle, its systems and components
 - P7.2 damage to your working environment
 - P7.3 injury to self and others
 - P8 use suitable testing methods to accurately evaluate the performance of the reassembled system
 - P9 ensure the reassembled system performs to the cycle operating specification and meets any legal requirements prior to return to the customer
 - P10 promptly report any problems or issues relating to the cycle's condition or conformity to the relevant person(s)
 - P11 ensure your records are accurate, complete and promptly passed to the relevant person(s) in the format required
 - P12 complete all cycle non-hydraulic braking system remove and replace activities within the agreed timescale
 - P13 promptly report any anticipated delays in completion to the relevant persons(s)

Knowledge and understanding

You need to know and understand:

Legislative and organisational requirements and procedures

- K1 the health and safety legislation, environmental requirements and workplace procedures relevant to cycle non-hydraulic braking system remove and replace activities and personal and cycle protection
- K2 your workplace procedures for:
 - K2.1 recording removal and replacement information
 - K2.2 the referral of problems
 - K2.3 reporting delays to the completion of work
- K3 how to work safely avoiding damage to other cycle systems, components and units and injury to self and others
- K4 the importance of documenting cycle non-hydraulic hydraulic system remove and replace information
- K5 the importance of working to agreed timescales and keeping others informed of progress
- K6 the importance of promptly reporting anticipated delays to the relevant person(s)

Use of technical information

- K7 how to find, interpret and use sources of current technical information applicable to cycle non-hydraulic braking system remove and replace activities
- K8 the importance of using the appropriate sources of technical information

Tools and equipment

- K9 how to select, prepare, check and use all the removal and replacement equipment required

Cycle non-hydraulic braking system component removal and replacement

- K10 how to identify the components in a cycle non-hydraulic braking system
- K11 how to remove and replace cycle non-hydraulic braking system components for the types of cycle on which you work
- K12 how to test and evaluate the performance of replacement cycle non-hydraulic braking system components and the reassembled system against the cycle operating specifications and any legal requirements

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K13 the manufacturer's specification for the type and quality of components to be used

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Scope/range

1. Tools and equipment are:

- 1.1 hand tools
- 1.2 measuring equipment

2. Braking systems are:

- 2.1 rim brakes
- 2.2 disc brakes
- 2.3 hub brakes

3. Components are:

- 3.1 lever
- 3.2 inner and outer cable
- 3.3 calliper
- 3.4 brake pads/shoes/blocks
- 3.5 calliper balancing screw

Additional information

Glossary

This section contains examples and explanations of some of the terms used but does not form part of the standard.

Agreed timescales

Examples include industry recommended work times, job times set by your company or a job time agreed with a specific customer

Conformity

Examples include conformity to approvals and specifications, UK and European legal requirements where applicable

Cycles

In this standard the term 'cycle' includes pedal-propelled vehicles with two, three or four wheels on which the rider sits. It may also include pedal-assisted e-bikes:

- Road legal up to 15.5 mph with a motor with an output of up to 250w
- E-cycles used for other purposes

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