

Overview

This standard is about fitting and testing enhancements and accessories to new and used motorcycles. These include electrical and electronic items, exhausts, suspension, brakes, wheels, tyres, steering and frame components, security systems and luggage carriers/panniers, not fitted as standard equipment. It is also about evaluating the performance of the fitted enhancements and accessories where applicable.

In this standard the term 'motorcycle' includes motorcycles, scooters, mopeds and motorcycle-derived vehicles with three or four wheels (such as quad bikes) on which the rider sits.

Performance criteria

You must be able to:

P1 use suitable personal protective equipment and motorcycle coverings (where applicable) throughout all fitting and testing activities

P2 ensure the motorcycle and the work area is safe prior to work commencing

P3 support your fitting and testing activities by reviewing:

P3.1 motorcycle technical data

P3.2 fitting and testing procedures

P3.3 legal requirements

P4 prepare, check and use all **equipment** required to fit **enhancements and accessories** following manufacturer's instructions

P5 carry out fitting and testing activities following:

P5.1 equipment and motorcycle manufacturer's instructions

P5.2 your workplace procedures

P5.3 health, safety and environmental requirements

P6 work in a way which minimises the risk of:

P6.1 damage to other motorcycle systems, units and components

P6.2 contact with leakage and hazardous substances

P6.3 damage to your working environment

P6.4 injury to self and others

P7 ensure fitted **enhancements and accessories** conform to the motorcycle operating specification and any legal requirements

P8 record and report to relevant person(s) any fitted **enhancement** or **accessory** that does not conform to legal requirements

P9 promptly record and report to relevant person(s) any additional faults you notice during the course of your work

P10 use suitable **testing methods** to accurately evaluate the performance of the fitted **enhancement or accessory**

P11 demonstrate and explain the operation or effect of the **enhancement** or **accessory** fitted

P12 ensure all your records are accurate, complete and promptly passed to the

relevant person(s) in the format required

P13 complete all fitting and testing 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:

Legislative and organisational requirements and procedures

K1 the legal requirements relating to the motorcycle (including road safety requirements)

K2 the health and safety legislation, environmental requirements and workplace procedures relevant to motorcycle enhancement and accessory fitting and testing activities, and personal and motorcycle protection

K3 your workplace procedures for:

K3.1 recording fitting and testing information

K3.2 the referral of problems

K3.3 reporting delays to the completion of work

K4 the importance of documenting fitting and testing information

K5 the importance of working to agreed timescales and keeping others informed of progress

K6 the relationship between time and cost

K7 the importance of promptly reporting anticipated delays to the relevant person(s)

Use of technical information

K8 how to find, interpret and use sources of information applicable to fitting and testing motorcycle **enhancements and accessories** *

K9 the importance of using the appropriate sources of technical information

***Equipment**

K10 how to prepare, check and use all the fitting and testing **equipment** required

K11 how to calibrate any testing or measuring **equipment** required for the fitting and testing activity

K12 how to clean and store all the fitting and testing **equipment** after use

Electrical and electronic principles

K13 electrical and electronic principles associated with electrical systems, including types of sensors and actuators, their application and operation

K14 types of circuit protection and why these are necessary

K15 electrical safety procedures

K16 how electrical circuits work

K17 electric symbols, units and terms

K18 motorcycle earthing principles and methods

K19 the hazards associated with working on or near high voltage electrical systems and components

Enhancements and accessories fitting and testing

K20 how to fit **enhancements and accessories** for the types of motorcycle on which you work

K21 how to test and evaluate the performance of the fitted **enhancements and accessories**

K22 the equipment manufacturer's instruction for the fitted **enhancements and accessories**

K23 the motorcycle manufacturer's specification for the fitted **enhancements and accessories**

K24 the motorcycle manufacturer's requirements relating to any remaining warranty

K25 how to work safely, avoiding damage to other motorcycle systems, units and components, contact with leakage and hazardous substances and injury to self and others

Scope/range

1 Equipment is:

- 1.1. hand tools
- 1.2. special workshop tools
- 1.3. general workshop equipment
- 1.4. electrical and electronic testing equipment
- 1.5. lifting equipment
- 1.6. measuring equipment

2 Testing methods are:

- 2.1. sensory
- 2.2. functional
- 2.3. measurement

3 Enhancements and accessories are:

- 3.1. electrical and electronic units and components
- 3.2. exhaust components, not fitted as standard equipment
- 3.3. suspension components, not fitted as standard equipment
- 3.4. luggage accessories, not fitted as standard equipment
- 3.5. body accessories, not fitted as standard equipment
- 3.6. frame accessories, not fitted as standard equipment
- 3.7. brake components, not fitted as standard equipment
- 3.8. wheel, tyre and steering components, not fitted as standard equipment
- 3.9. performance enhancement/restriction components, not fitted as standard equipment
- 3.10. security system units and components, not fitted as standard equipment

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 manufacturer's recommended work times, job times set by your company or a job time agreed with a specific customer

Electrical enhancements and accessories

Examples include heated grips, heated seats, audio systems, intercom systems, integrated satellite navigation, cameras, monitoring systems, lighting systems (additional to any factory fitted items), security and alarm systems; electrical rider safety systems

Motorcycles

In this standard the term 'motorcycle' includes motorcycles, scooters, mopeds and motorcycle-derived vehicles with three or four wheels (such as quad bikes) on which the rider sits.

Sensory testing methods

These may include looking, listening, smelling and touching for heat.

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