

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Overview

This standard is about conducting routine examination, adjustment and replacement activities as part of the periodic maintenance of large goods and passenger vehicle

Deleted: NOS

Deleted: commercial

Deleted:Page Break.....

DRAFT

Deleted: commercial

IMIHV01 Carry out routine large goods and passenger vehicle maintenance

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Performance criteria

You must be able to:

- P1 use suitable personal and vehicle protective equipment throughout all vehicle maintenance activities
- P2 use suitable **sources of technical and legal information** to support all your vehicle maintenance activities
- P3 prepare the vehicle, vehicle systems and the work area for safe working procedures as appropriate to the vehicle
- P4 work in a way which minimises the risk of damage to the vehicle and its systems
- P5 adhere to the correct specifications and tolerances for the vehicle when making **assessments** of system and component performance
- P6 where the vehicle falls outside the manufacturer's original specification, record details accurately and use these details as the basis for your assessment of system and component performance,
- P7 examine the vehicle's systems and components following:
 - P7.1 the manufacturer's approved **examination methods**
 - P7.2 your workplace procedures
 - P7.3 health, safety and environmental requirements
 - P7.4 any prescribed documentation (where appropriate)
- P8 ensure your **examination methods** identify accurately any vehicle system and component problems falling outside the servicing schedule specified
- P9 carry out adjustments, replacement of vehicle components and replenishment of consumable materials following the manufacturer's current specification for:
 - P9.1 the particular service interval
 - P9.2 working methods and procedures
 - P9.3 use of equipment
 - P9.4 the tolerances for the vehicle
- P10 record the details accurately and take action which complies with the customer's instructions where system adjustments cannot be made within the manufacturer's specification
- P11 use suitable testing methods to evaluate the performance of all replaced and adjusted components and systems.

Deleted: Performance criteria

Deleted: and vehicle coverings (where applicable)

Deleted: (where appropriate)

Deleted: use

Deleted: record details accurately and use this adapted specification as the basis for your examination and assessment where the commercial vehicle falls outside the manufacturer's original specification

Deleted: and

Deleted: <#>environmental requirements

Deleted: <#>work in a way which minimises the risk of damage to the vehicle and its systems

Deleted: <#> accurately, prior to returning the vehicle to the customer/driver

Deleted: commercial

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

- P12 confirm all systems and components inspected function correctly following manufacturer's specifications
- P13 report any problems or issues relating to the vehicle's condition or conformity to the relevant person(s) promptly
- P14 ensure your maintenance records are accurate, complete and passed to the relevant person(s) within the agreed timescale in the format required
- P15 complete all vehicle maintenance activities within the agreed timescale
- P16 report any anticipated delays in completion to the relevant persons(s) promptly

Deleted: promptly

DRAFT

Deleted: commercial

IMIHV01 Carry out routine large goods and passenger vehicle maintenance

3

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Knowledge and understanding

Legislative and organisational requirements and procedures

Deleted: ¶

- K1 the manufacturer's and legal requirements, including Operator Licence criteria relating to routine maintenance activities for vehicle systems and components
- K2 the implications on an Operators Licence of not carrying out repairs and inspections correctly
- K3 the legal requirements relating to the vehicle maintenance and auxiliary equipment (including road safety requirements)
- K4 the legislation and workplace procedures relevant to
 - K4.1 health and safety
 - K4.2 the environment (including waste disposal)
 - K4.3 appropriate personal and vehicle protective equipment
- K5 your workplace procedures for
 - K5.1 recording vehicle maintenance work and any variations from the original vehicle specification
 - K5.2 the referral of problems
 - K5.3 reporting delays to the completion of work
- K6 the importance of recording vehicle maintenance information
- K7 the importance of working to agreed timescales and keeping others informed of progress
- K8 the relationship between time and costs
- K9 the importance of reporting anticipated delays to the relevant person(s) promptly

Deleted: You need to know and understand:¶

Deleted: documenting

You need to know and understand:

Use of technical information

Deleted: ¶

- K10 how to find, interpret and use **sources of technical information** for scheduled maintenance activities, including on-board vehicle displays
- K11 the importance of using the correct **sources of technical information**
- K12 the purpose of and how to use identification codes

Deleted: ¶

Deleted: diagnostic

You need to know and understand:

Vehicle system operation

Deleted: ¶
¶

Deleted: commercial

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

- K13 how internal combustion engines, cooling systems, air supply and exhaust systems, emission and environmental control systems, fuel systems and ignition systems operate for the type(s) of vehicle on which you are working
- K14 how clutch assemblies, clutch operating systems, manual gear boxes, automatic gear boxes, drivelines and hubs (if appropriate) and final drive assemblies operate for the type of vehicle on which you are working
- K15 how suspension systems, steering systems, braking systems, non-electrical body systems, wheels and tyres operate for the type of vehicle on which you are working
- K16 how batteries, starting systems, charging systems, lighting systems and ancillary equipment operate for the type of vehicle on which you are working
- K17 the operating specifications and tolerances for the type(s) of vehicles on which you are working.
- K18 The hazards associated with working on or near high energy electrical vehicle components

Deleted: ¶

You need to know and understand:

Routine maintenance requirements

- K19 how to conduct scheduled, systematic, routine **examination methods** and **assessments** against vehicle specifications to identify damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability
- K20 how to check and make adjustments to clearances, settings, alignment, pressures, tension, speeds and levels relevant to the engine area, transmission area, chassis area, electrical area and body
- K21 how to replenish and replace routine service components and materials,
- K22 how to recognise and report cosmetic damage to vehicle components and outside normal service items
- K23 how to identify codes and grades of lubricants
- K24 the consequence of using incorrect lubricants, fluids and components
- K25 how to compare test and inspection results against vehicle specifications and legal requirements
- K26 how to work safely avoiding damage to the vehicle and its systems
- K27 the importance of inspecting the vehicle following any repairs
- K28 the implications of failing to carry out inspection activities correctly

Deleted: ¶

Deleted: gaps,

Deleted: (including adjustments to valves, ignition, fuel and emissions, brakes, transmission, lights, tyres, steering and body fittings)

Deleted: , including filters, drive belts, wiper blades, brake linings and pads, lubricants and fluids

Deleted: commercial

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

K29 how to recognise the consequences of adjustments on other systems (for example, tyre pressure adjustment) may affect Advanced Driver Assistance Systems (ADAS)

K30 the implications of signing workplace documentation and vehicle records

DRAFT

Deleted: commercial

IMIHV01 Carry out routine large goods and passenger vehicle maintenance

6

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Deleted: Additional information

Scope/range

1. Sources of technical information are:

- 1.1. vehicle technical data
- 1.2. schedules of inspection
- 1.3. regulations
- 1.4. software updates

2. Examination methods are:

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

Deleted: aural

Deleted: <#>visual¶

Deleted: s

3. Assessments are for:

- 3.1. malfunction
- 3.2. damage
- 3.3. fluid levels
- 3.4. leaks
- 3.5. wear
- 3.6. security
- 3.7. condition and serviceability
- 3.8. conformity
- 3.9. necessity for adjustment(s)
- 3.10. corrosion

Deleted: commercial



Deleted: commercial

Additional information

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

Glossary

Adjustments:

Examples include: adjustments to clearances, settings, alignment pressures, tensions, speeds and levels, and adjustments to valves, ignition, fuel and emissions, brakes, transmission, lights, tyres, steering and body fittings.

Deleted: Agreed timescales:¶

¶ Examples include: manufacturer's recommended work times, job times set by your company or a job time agreed with a specific customer.¶

Deleted: ¶

Deleted: gaps,

Agreed timescales:

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

Ancillary equipment

Examples include: tyre pressure monitoring, ADAS, cameras and radar units or navigation

Components:

Examples include: filters, drive belts, wiper blades, brake linings and pads, lubricants and fluids.

Deleted: Commercial Vehicles:¶

¶ These are medium and large goods vehicles of 3500kgs gross vehicle mass (GVM) and above.¶

Deleted: ¶

Conformity:

Examples include conformity to manufacturer's specifications, UK and European legal requirements where applicable.

Deleted: ¶

Large Goods and Passenger Vehicles:

These are medium and large goods vehicles, buses and coaches of 3500kgs gross vehicle mass (GVM) and above.

Major service:

As defined by manufacturers' specifications appropriate to the vehicle being working upon.

Maintenance records:

Deleted: Systems testing equipment:¶

¶ Examples include: test instruments, emission test equipment, wheel alignment equipment, tyre tread depth gauges.¶

Deleted: commercial

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Examples include: records of vehicle inspection, manufacturers', fleet, company customer job cards.

Deleted: ¶

Routine vehicle maintenance:

Examples include: conducting scheduled examinations, adjustments, replacements and replenishment of, or to, components and systems in accordance with manufacturer's instructions for the period and/or mileage intervals and legal requirements.

Deleted: Major service:¶
¶
As defined by manufacturers' specifications appropriate to the vehicle being working upon.¶
¶

Deleted: ¶

Systems testing equipment:

Examples include: test instruments, emission test equipment, wheel alignment equipment, tyre tread depth gauges, interface.

Vehicle technical data:

Examples include: hard copy manuals, data on computer and data obtained from on-board vehicle displays

Deleted: ¶

Deleted: diagnostic

DRAFT

Deleted: commercial

IMIHV01

Carry out routine large goods and passenger vehicle maintenance



Deleted: commercial

Developed by IMI

Version number 3

Deleted: 2

Date approved 2021

Deleted: December 2013

Indicative review date 2024

Deleted: December 2016

Validity Under review

Deleted: Current

Status Original

Originating organisation IMI Ltd

Original URN MRHV01

Relevant occupations Engineering; Vehicle Trades; Heavy Vehicle Service Technician (Automotive); Bus and Coach Mechanic; Bus and Coach Mechelec;

Suite Maintenance and Repair - Large Goods and Passenger Vehicle

Deleted: -

Deleted: Heavy

Key words Goods; passenger; vehicle; servicing; routine; inspections;

Deleted: Commercial

maintenance; heavy; large; operator; licence; DVSA; bus; coach;

Deleted: VOSA

Deleted: commercial

IMIHV01 Carry out routine large goods and passenger vehicle maintenance

10