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Safer and cleaner used and new vehicles for low- and middle-income countries

SCUNV Used Vehicle Inspection Chapters and Groups

Submitted by the Chair and Vice-Chairs of the Informal Working Group on Safer and Cleaner Used and New Vehicles*

The text reproduced below was prepared by the Informal Working Group on Safer and Cleaner Used and New Vehicles and presented to the World Forum for Harmonization of Vehicle Regulations (WP.29) at its 192nd session on the basis of an informal document (WP.29-192-21). WP.29 requested the secretariat to distribute the document with an official symbol for this session (ECE/TRANS/WP.29/1177, para. 134). The document is considered as a living document.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Purpose

1. This document's primary purpose is to provide an overview of items to be considered for inspection of Used Vehicles in order to determine the roadworthiness of that vehicle in case of transferring the vehicle at the point of origin as well as of destination. This document will be further developed by the IWG with elements such as recommended inspection methods and/or guidance on assessment of defects/shortcomings in accordance with their risk. The further development of the document may result in adding/removing specific elements.

II. Used Vehicle Inspection Chapters and Groups

0. Identification of the vehicle

0.1. Vehicle identification/chassis/serial number and main components as defined

1. Braking equipment

- 1.1. Mechanical condition and operation
- 1.2. Service braking performance and efficiency
- 1.3. Secondary (emergency) braking performance and efficiency (if met by separate system)
- 1.4. Parking braking performance and efficiency
- 1.5. Endurance braking system performance
- 1.6. Anti-lock braking system (ABS) (if fitted)
- 1.7. Electronic brake system (EBS) (if fitted)
- 1.8. Brake fluid

2. Steering

- 2.1. Mechanical condition
- 2.2. Steering wheel, column and handle bar
- 2.3. Steering play
- 2.4. Wheel alignment
- 2.5. Trailer steered axle turntable
- 2.6. Electronic Power Steering (EPS) (if fitted)

3. Visibility

- 3.1. Field of vision
- 3.2. Condition of glass
- 3.3. Rear-view mirrors or devices
- 3.4. Windscreen wipers
- 3.5. Windscreen washers
- 3.6. Demisting system

4. Lamps, reflectors and electrical equipment

- 4.1. Headlamps
- 4.2. Front and rear position lamps, side marker lamps, end outline marker lamps and [daytime running lamps(when required)]
- 4.3. Stop Lamps
- 4.4. Direction indicator and hazard warning lamps
- 4.5. Front and rear fog lamps (when required)
- 4.6. Reversing lamps
- 4.7. Rear registration plate lamp
- 4.8. Retro-reflectors, conspicuity (retro reflecting) markings and rear marking plates
- 4.9. Tell-tales mandatory for lighting equipment
- 4.10. Electrical connections between towing vehicle and trailer or semi-trailer
- 4.11. Electrical wiring

4.12. Battery(ies) (visual)

5. Axles, wheels, tyres and suspension

- 5.1. Axles
- 5.2. Wheels and tyres
- 5.3. Suspension system

6. Chassis and chassis attachments

- 6.1. Chassis or frame and attachments
- 6.2. Cab and bodywork

7. Other (Safety) equipment

- 7.1. Safety-belts/buckles and restraint systems
- 7.2. Fire extinguisher (if required)¹
- 7.3. Locks and anti-theft device
- 7.4. Warning triangle (if required)¹
- 7.5. First aid kit. (if required)¹
- 7.6. Wheel chocks (wedges)
- 7.7. Audible warning device
- 7.8. Speedometer (Metric vs Imperial)
- 7.9. Speed limitation device (if fitted/required)¹
- 7.10 Odometer if available
- 7.11 Electronic Stability Control (ESC) (if fitted/required)

8. Supplementary tests for passenger-carrying vehicles categories busses and coaches

- 8.1. Doors
- 8.2. Demisting and defrosting system
- 8.3. Ventilation & heating system
- 8.4. Seats
- 8.5. Interior lighting and if fitted, destination devices
- 8.6. Gangways, standing areas
- 8.7. Stairs and steps
- 8.8. Requirements regarding the transportation of children (if applicable)
- 8.9. Requirements regarding the transportation of persons with reduced mobility (if applicable)

9. Environmental nuisances, pollutant emissions and other items related to the protection of the environment

- 9.1. Exhaust emissions
- 9.2. Noise emissions
- 9.3. Other items related to the protection of the environment
- 9.4. Electromagnetic interference suppression (Recommended)

10. [Supplementary tests for battery/hybrid electric vehicles]²

¹ Main purpose of the inspection is related to the assessment if the current condition may pose a risk to road safety. The presence/non presence would only be checked if there is a legal requirement of having them in the jurisdiction where the vehicle is registered/used.

² Chapter 10 is still under discussion by the IWG, but the IWG recognises the importance of this item and will keep it on the list pending more discussions.