

SERVICES



European type-approval

WVTA

Small series (KS)



M, N, O
Vehicle categories
R(EU) 2018/858



Agricultural and
Forestry Vehicles
R(EU) 167/2013



2 & 3 wheeled
Vehicles
and Quadricycles
R(EU) 168/2013

National type homologation

- National type
- National Small Series (NKS)
- Individual Complete and Completed Vehicle Certifications
- Certificate of correspondence
- Functional Assemblies

National Regulation
RD 866/2010

EU-UNECE
Regulations

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M, N and O Vehicles R(EU) 2018/858

RESTRAINT SYSTEMS, CRASH TEST, FUEL SYSTEM INTEGRITY AND HIGH-VOLTAGE ELECTRICAL SAFETY

A12 Rear Underrun Protection Devices	R(CEPE) 58
A13 Lateral Protection Devices	R73
A14 Prevention of Fire Risks (liquid fuel tanks)	R34
A19 IRequirements for the electric power train	R100

VULNERABLE ROAD USERS, VISIBILITY, AND SIGHT

B7 Devices for means of rear visibility or detection	R158
B8 Forward Field of Vision of Drivers	R125
B10 Safety glazing	R43
B12 Windscreen washer and wiper	R(EU) 2021/535
B13 Indirect vision devices of motor vehicles with regard to the installation of these devices	R46
B14 Quiet Road Transport Vehicles with regard to their reduced audibility	R(CEPE) 138

THE CHASSIS, BRAKING, TYRES, AND VEHICLE STEERING

C1 Steering Mechanism	R(CEPE) 79
C4 Braking: Brake assist system	R13 & R13H
C7 Electronic Stability control	R140
C15 Installation of their tyres	R142

THE ONBOARD INSTRUMENTS, ELECTRICAL SYSTEM, VEHICLE LIGHTS, AND PROTECTION AGAINST UNAUTHORIZED USE, INCLUDING CYBERATTACKS

D1 Audible warning devices and of motor vehicles with regard to their audible signals	R28
D2 Electromagnetic Compatibility	R10
D4 Cyber-security and cyber security management system	R155
D5 & D6 Speedometer and odometer equipment including its installation	R(CEPE) 39
D8 Intelligent Speed Assist	R(EU) 2021/1958
D9 Location and identification of hand controls, tell-tales and indicators	R(CEPE) 121
D10 Heating systems	R(CEPE) 122
D11 Light Signalling Devices	R(CEPE) 148
D12 Road Illumination Devices	R(CEPE) 149
D13 Retro-Reflective Devices	R(CEPE) 150
D15 Installation of lighting and light-signalling devices	R(CEPE) 48
D16 Emergency brake signal	R(CEPE) 48
D17 Headlamp cleaning	R(CEPE) 45
D18 Gear shift indicator	R(EU) 2021/535

DRIVER BEHAVIOR AND SYSTEM BEHAVIOR

E1 Alcohol interlock preinstallation	R(EU) 2021/1243
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THE OVERALL STRUCTURE AND GENERAL CHARACTERISTICS OF THE VEHICLE

F1 License plate placement	R(EU) 2021/535
F2 Reversing	R(EU) 2021/535
F4 Steps, handholds, and footboards	R(EU) 2021/535
F5 External projections	R26
F6 External projections forward of the cab's rear panel	R61
F7 Regulatory plate and vehicle identification number	R(EU) 2021/535
F8 Towing devices	R(EU) 2021/535
F9 Fender	R(EU) 2021/535
F10 Spray-suppression systems	R(EU) 2021/535
F11 Masses and dimensions	R(EU) 2021/535
F12 Mechanical coupling components	R55
F13 Vehicles intended for the carriage of dangerous goods	R105

ENVIRONMENTAL BEHAVIOR

G1 Sound emission provisions
G2 Emissions, consumption, and range

G13 Recyclability
G14 Air conditioning system

R51
R(CE) 715/2007 R24;
R83; R85; R101; R154; R168
R133
R(EU) 706/2007

ACCESS TO INFORMATION AND SOFTWARE UPDATES

H21 Software Update

R156



Agricultural and Forestry Vehicles R(EU) 167/2013

- Integrity of the vehicle structure
- Maximum factory speed, speed governor, and speed limiting devices
- Braking devices and brake coupling with trailers
- Steering mechanism for high-speed tractors
- Steering mechanism
- Speed indicator
- Field of vision and windscreen wipers
- Glazing
- Rear-view mirrors
- Driver information systems
- Lighting and signposting devices and their light sources
- Installation of lighting devices
- Exterior of the vehicle and its accessories
- Electromagnetic compatibility
- Sound signposting device
- Protection devices against unauthorized use
- License plate
- Regulatory plate and markings
- Dimensions and towable mass
- Maximum laden mass
- Ballast masses
- Electrical system safety

- Fuel tank
- Rear protection structures
- Lateral protection devices
- Loading platforms
- Hazards due to towing devices
- Tyres
- Spray-suppression systems
- Reverse gear
- Mechanical couplings
- Driver exposure to noise level
- Protection of drive components
- Exhaust system
- Operating manual
- Controls, including in particular emergency devices and automatic stop
- Protection against mechanical hazards other than those mentioned in Article 18(2)(a), (b), (g), (k), including protection against the rupture of fluid-carrying conduits and uncontrolled vehicle movements
- Guards and protective devices
- Information, warnings and markings
- Batteries
- External noise level



Two- and three-wheeled vehicles and quadricycles R(EU) 168/2013

PROPULSION PERFORMANCE REQUIREMENTS AND ENVIRONMENTAL EFFECTIVENESS REQUIREMENTS

A3 Test procedures related to sound

FUNCTIONAL SAFETY REQUIREMENTS FOR VEHICLES

- B1 Audible warning devices
- B3 Electrical safety
- B6 Glazing, windshield wipers and washer systems, and de-icing and de-misting devices
- B7 Driver-operated controls, with identification of controls, tell-tales, and indicators
- B8 Installation of lighting and light signposting devices, including automatic lighting on and off
- B8a Lighting and signposting devices
- B9 Rear visibility
- B15 Sign regarding the maximum speed limit of the vehicle and its placement in the vehicle

REQUIREMENTS RELATED TO THE VEHICLE'S MANUFACTURING AND GENERAL REQUIREMENTS FOR TYPE APPROVAL

- C6 Electromagnetic compatibility (EMC)
- C13 License plate placement
Statutory markings
Requirements for technical services
- 3 Non-original replacement exhaust silencers



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LA INNOVACIÓN INDUSTRIAL

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