



THE AUTOMOTIVE REGULATORY GUIDE



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FOREWORD

It is with great pleasure that I present you the second edition of the Automotive Regulatory Guide published by the European Automobile Manufacturers' Association (ACEA), a unique publication that provides a comprehensive overview of the national and international regulations governing the automotive industry.

ACEA's 2022 Regulatory Guide does not only contain updated information for the countries covered in the first edition, but it was also expanded to include regulations for the United States, the United Kingdom, Canada, Mexico and Australia.

Looking at the many regulations that define how motor vehicles should be built and approved, I cannot stress enough the importance of a harmonised regulatory framework that allows for innovation and investment across our industry. Indeed, the European automotive industry is one of the most heavily regulated sectors in Europe with more than 150 EU Regulations and 30 Directives covering the sector's activities. That is why ACEA has long been advocating the need for smarter, rather than simply more, legislation.

To give you an example, with over 60 different safety regulations in the EU, 83 at UNECE level and 40 for the seven Gulf countries, the harmonisation of procedures and standards is much needed to further advance the global objective of reducing road fatalities to zero in the future. And the same applies to addressing the climate change challenge of course; increased global harmonisation will allow us to get to carbon-neutral mobility faster and more efficiently.

With the support of national and international regulators, the automotive industry is fully committed to facing the challenges of today for a better tomorrow.

I hope that industry stakeholders and policy makers alike will find great added value in this ACEA Regulatory Guide, the first of its kind in the world. I am already looking forward to sharing the next edition which will include more countries for an even more comprehensive overview.



Eric-Mark Huitema
ACEA DIRECTOR GENERAL



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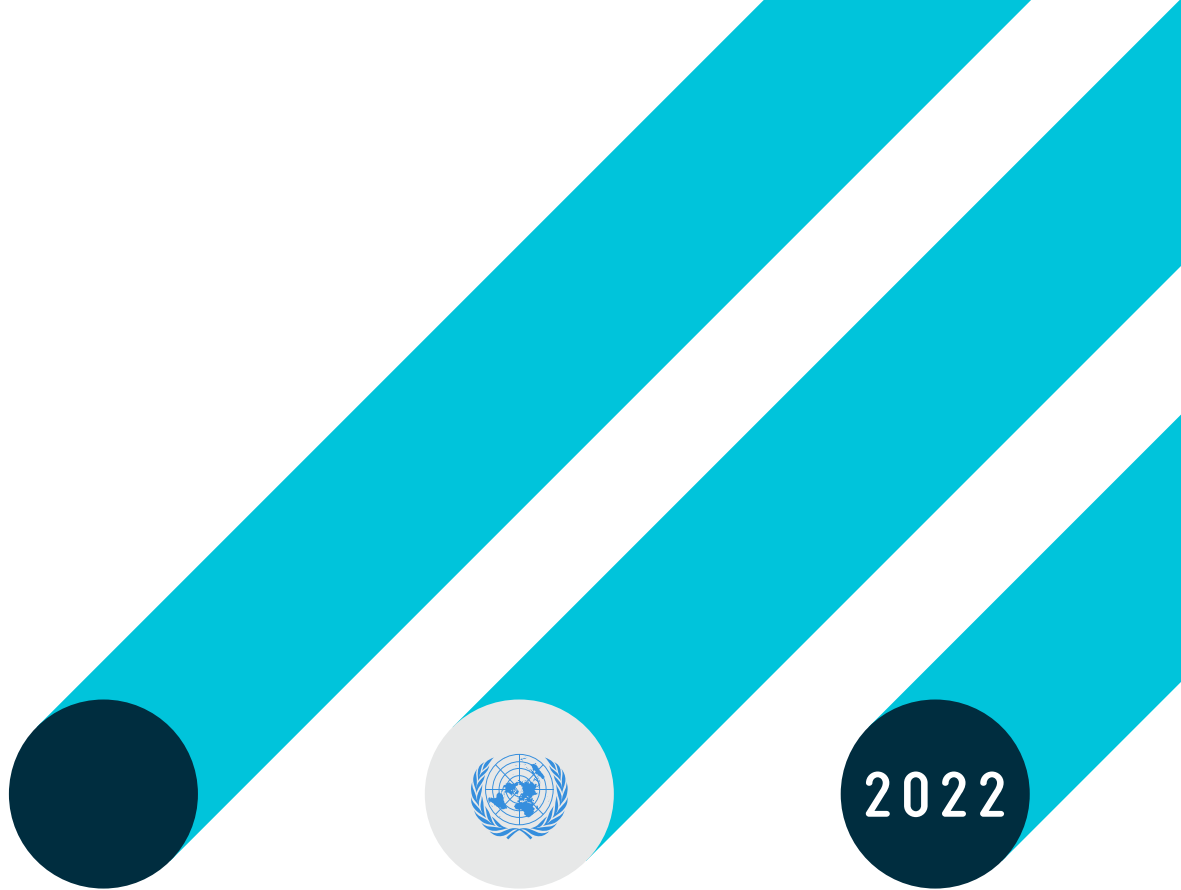
REGULATORY GUIDE STRUCTURE

Item	Subject	Regulatory Act	Applicability to spare parts
Safety – external, internal, active safety, operation, occupant protection	Title or short description of regulation / topic	Relevant regulation(s) / legal reference(s)	Yes: regulation applicable to type approval and spare parts No: regulation applicable to type approval only Empty cell: no clear statement available, needs to be checked
Environment – engine power, fuel consumption, substances, emissions, noise emissions			
Technical – technical requirements for vehicles, components and separate technical units			
Radio – relevant for telecommunication and wireless devices			
Mixed – diverse requirements, other categories			
Aftersales – relevant for aftersales only			



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UNECE



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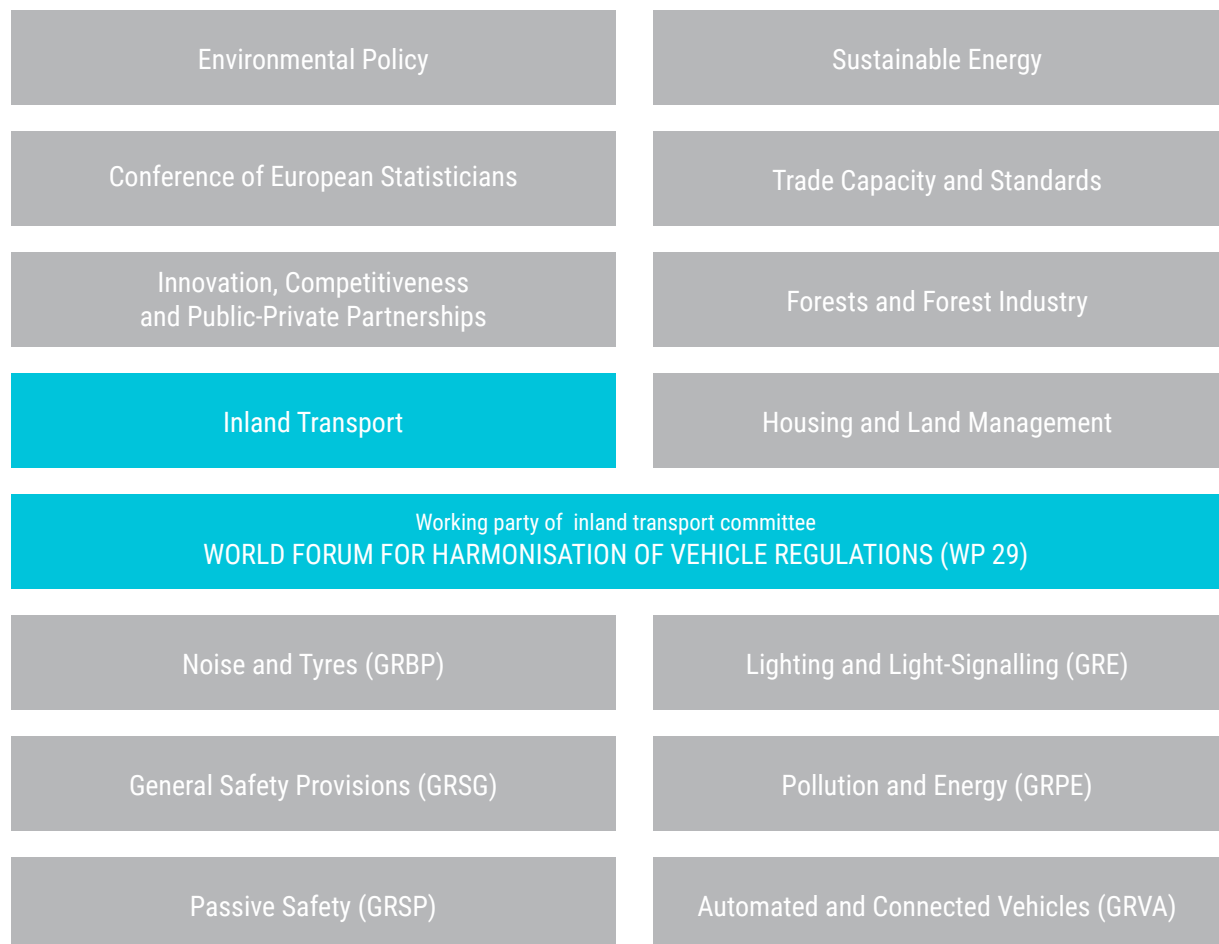
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STRUCTURE AND ORGANISATION

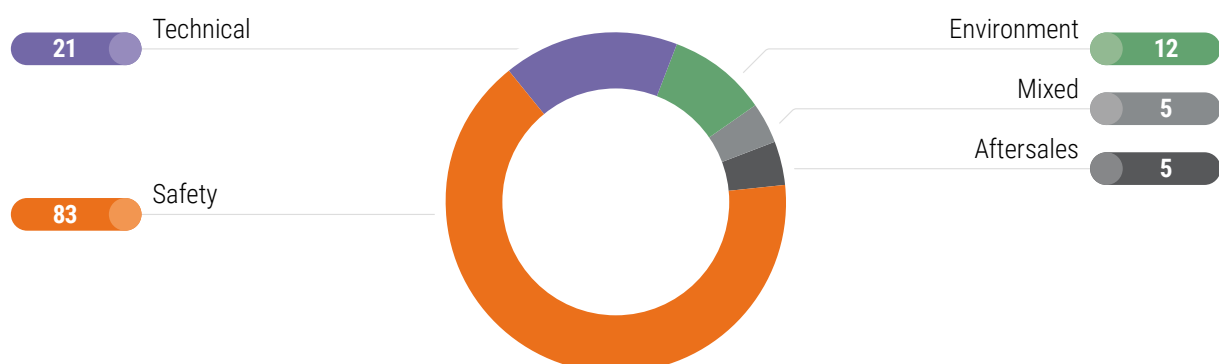
- UNECE was set up in 1947 by ECOSOC (United Nations Economic and Social Council)
- Major aim: promoting pan-European economic integration
- Sets out norms, standards and conventions to facilitate international cooperation within and outside the region

INTERGOVERNMENTAL STRUCTURE OF UNECE



DISTRIBUTION OF REGULATIONS PER ITEM

SOURCE: ACEA



Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	International Whole Vehicle Type Approval (IWVTA)	UN R0	No
Safety	Asymmetric headlamps (R2 and / or HS1)	UN R1	Yes
Safety	Retro-reflecting devices	UN R3	Yes
Technical	Rear registration plate lamp	UN R4	Yes
Safety	Asymmetric headlamps (sealed beam)	UN R5	Yes
Safety	Direction indicators	UN R6	Yes
Safety	End-outline marker-, front / rear position-, side-, stop lamps (M, N, O category)	UN R7	Yes
Safety	Headlamps (H1, H2, H3, HB3, HB4, H7, H8, H9, HIR1, HIR2 and / or H11)	UN R8	Yes
Environment	Electromagnetic compatibility	UN R10	No
Safety	Door latches and hinges	UN R11	Yes
Safety	Behaviour of steering device under impact	UN R12	No
Safety	Braking (M, N, O category)	UN R13	Yes
Safety	Braking (passenger cars)	UN R13H	Yes
Safety	Safety belt anchorages, ISOFIX anchorage systems, ISOFIX top tether anchorages and i-Size seating positions	UN R14	Yes
Safety	Safety belts, restraint systems, child restraint systems, ISOFIX child restraint systems and i-Size child restraint systems	UN R16	Yes
Safety	Seat strength	UN R17	
Technical	Anti-theft	UN R18	
Safety	Front fog lamps	UN R19	Yes
Safety	Asymmetric headlamps (H4)	UN R20	Yes
Safety	Interior fittings	UN R21	No
Safety	Reversing lamps	UN R23	Yes

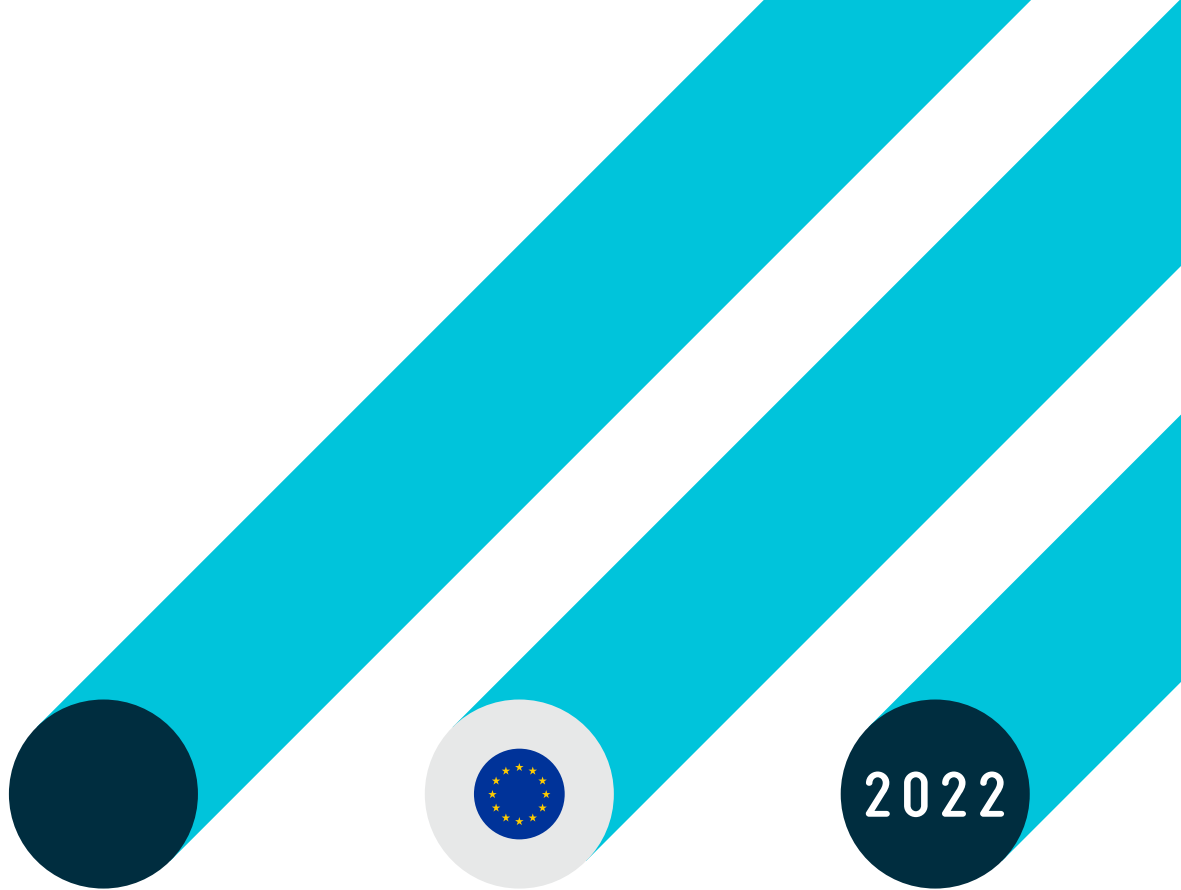
Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Diesel smoke and power	UN R24	No
Safety	Head restraints (headrests)	UN R25	Yes
Safety	External projections	UN R26	Yes
Safety	Advance warning triangles	UN R27	Yes
Safety	Audible warning devices	UN R28	Yes
Safety	Protection of the occupants of the cab of a commercial vehicle	UN R29	No
Technical	Tyres (motor vehicles and their trailers)	UN R30	Yes
Safety	Asymmetric headlamps (halogen sealed beam)	UN R31	Yes
Safety	Fire risks	UN R34	No
Safety	Filament lamps	UN R37	Yes
Safety	Rear fog lamps	UN R38	Yes
Technical	Speedometer	UN R39	Yes
Safety	Safety glazing	UN R43	Yes
Safety	Child restraint systems	UN R44	Yes
Safety	Headlamp cleaners	UN R45	Yes
Safety	Rear-view mirrors	UN R46	Yes
Safety	Installation of lighting and light-signalling devices (M, N, O category)	UN R48	No
Environment	Emissions – diesel, natural gas (NG) and liquefied natural gas (LNG)	UN R49	No
Environment	Sound levels (M, N category)	UN R51	No
Technical	Tyres (commercial vehicles and their trailers)	UN R54	Yes
Technical	Mechanical coupling devices	UN R55	Yes
Safety	Rear Underrun Protective Devices (RUPD)	UN R58	

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Replacement silencing systems	UN R59	Yes
Safety	External projections forward the cab of commercial vehicle	UN R61	No
Technical	Tyres (temporary use spare wheels / tyres)	UN R64	Yes
Safety	Strength of superstructure (buses)	UN R66	No
Safety	LPG equipment	UN R67	Yes
Mixed	Rear marking plates for slow moving vehicles	UN R69	Yes
Mixed	Rear marking plates for heavy and long vehicles	UN R70	Yes
Safety	Lateral protection (goods vehicles and their trailers)	UN R73	No
Safety	Parking lamps	UN R77	Yes
Safety	Steering equipment	UN R79	No
Safety	Strength of seats and their anchorages (large passenger vehicles)	UN R80	No
Environment	Emissions of pollutants according to engine fuel requirements	UN R83	No
Environment	Power – internal combustion and electric (M, N category)	UN R85	No
Safety	Daytime running lamps	UN R87	Yes
Safety	Speed limitation devices	UN R89	Yes
Aftersales	Replacement brake lining assemblies and drum brake linings	UN R90	Yes
Safety	Side marker lamps	UN R91	Yes
Safety	Front Underrun Protective Devices	UN R93	No
Safety	Protection of the occupants in the event of a frontal collision	UN R94	No
Safety	Protection of the occupants in the event of a lateral collision	UN R95	No
Technical	Alarm systems	UN R97	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Headlamps with gas-discharge light sources	UN R98	Yes
Safety	Gas-discharge light sources	UN R99	Yes
Safety	Battery electric vehicles safety	UN R100	Yes
Environment	CO2 emission / fuel consumption (M1) and electric energy consumption and range (M1, N1 category)	UN R101	No
Technical	Close coupling devices	UN R102	Yes
Aftersales	Replacement catalytic converters	UN R103	Yes
Safety	Retro-reflective markings (heavy and long vehicles)	UN R104	Yes
Safety	Carriage of dangerous goods — construction of vehicles	UN R105	No
Technical	Category M2 or M3 vehicles	UN R107	No
Technical	Retreaded tyres (motor vehicles and their trailers)	UN R108	Yes
Technical	Retreaded tyres (commercial vehicles and their trailers)	UN R109	Yes
Safety	Compressed natural gas (CNG) systems	UN R110	Yes
Safety	Roll-over stability of tank vehicles (N, O category)	UN R111	No
Safety	Asymmetrical headlamps (filament lamps)	UN R112	Yes
Safety	Symmetrical headlamps (filament lamps)	UN R113	Yes
Aftersales	Replacement airbags	UN R114	Yes
Mixed	LPG-CNG retrofit systems	UN R115	Yes
Technical	Unauthorised use (anti-theft and alarm systems)	UN R116	Yes
Mixed	Tyre noise and wet grip	UN R117	No
Safety	Fire resistance of interior materials	UN R118	No
Safety	Cornering lamps	UN R119	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Hand controls, tell-tales and indicators	UN R121	Yes
Technical	Heating system	UN R122	Yes
Safety	Adaptive Front-lighting Systems	UN R123	Yes
Aftersales	Replacement Wheels for passenger vehicles	UN R124	Yes
Safety	Forward field of vision	UN R125	No
Safety	Partitioning systems to protect passengers against displaced luggage	UN R126	No
Safety	Pedestrian safety	UN R127	No
Technical	Light Emitting Diode (LED) light sources	UN R128	Yes
Safety	Enhanced Child Restraint Systems (ECRS)	UN R129	Yes
Safety	Lane Departure Warning Systems (LDWS)	UN R130	No
Safety	Advanced Emergency Braking Systems (AEBS)	UN R131	No
Environment	Retrofit Emission Control devices (REC) for heavy-duty vehicles, agricultural and forestry tractors and NRMM	UN R132	Yes
Environment	Recyclability of motor vehicles	UN R133	No
Safety	Safety-related performance of hydrogen-fuelled vehicles (HFCV)	UN R134	Yes
Safety	Pole Side Impact (PSI)	UN R135	No
Safety	Frontal impact with focus on restraint systems	UN R137	No
Environment	Quiet Road Transport Vehicles (QRTV)	UN R138	No
Safety	Brake Assist Systems (BAS)	UN R139	Yes
Safety	Electronic Stability Control (ESC)	UN R140	Yes
Technical	Tyre Pressure Monitoring Systems (TPMS)	UN R141	Yes
Technical	Tyre installation	UN R142	No
Environment	Heavy Duty Dual-Fuel Engine Retrofit Systems (HDDF-ERS)	UN R143	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Accident Emergency Call Systems (AECS)	UN R144	Yes
Safety	ISOFIX anchorage systems, ISOFIX top tether anchorages and i-Size seating positions	UN R145	No
Safety	Mechanical coupling components of combinations of agricultural vehicles	UN R147	Yes
Safety	Light Signalling Devices (LSD)	UN R148	Yes
Technical	Road Illumination Devices (RID)	UN R149	Yes
Safety	Retro-Reflective Devices (RRD)	UN R150	Yes
Safety	Blind spot information system for the detection of bicycles	UN R151	No
Safety	Advanced Emergency Braking Systems (AEBS) for M1 and N1 vehicles	UN R152	Yes
Safety	Fuel system integrity and safety of electric powertrain in the event of a rear-end collision	UN R153	No
Environment	Criteria emissions, emissions of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range (WLTP)	UN R154	No
Safety	Cybersecurity and cybersecurity management systems	UN R155	No
Safety	Software update and software updates management system	UN R156	No
Safety	Automated Lane Keeping Systems	UN R157	No
Safety	Reversing motion	UN R158	Yes
Safety	Moving Off Information Systems (MOIS)	UN R159	No
Safety	Event Data Recorder (EDR)	UN R160	No
Technical	Protection of motor vehicles against unauthorised use and the approval of the device against unauthorised use (ie a locking system)	UN R161	Yes
Technical	Approval of immobilizers and approval of a vehicle with regard to its immobilizer	UN R162	Yes
Technical	Vehicle alarm system and approval of a vehicle with regard to its vehicle alarm system	UN R163	Yes



EU



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EU INSTITUTIONS

THERE ARE THREE MAIN INSTITUTIONS INVOLVED IN EU LEGISLATION:

European Parliament

Council of
the European Union

European Commission

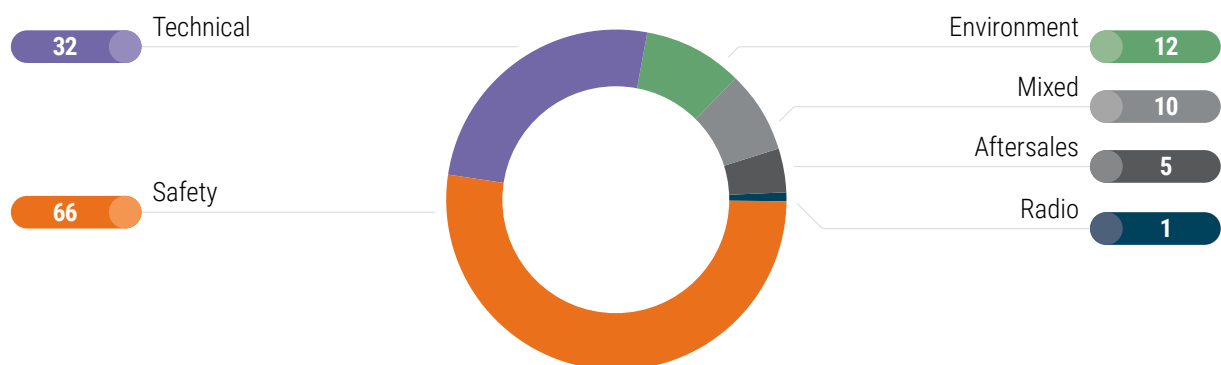
Together, these three institutions produce through the 'Ordinary Legislative Procedure' (ex 'co-decision') the policies and laws that apply throughout the EU.

In principle, the European Commission proposes new laws, and the Parliament and Council adopt them.

The Commission and the member countries then implement them, and the Commission ensures that the laws are properly applied and implemented.

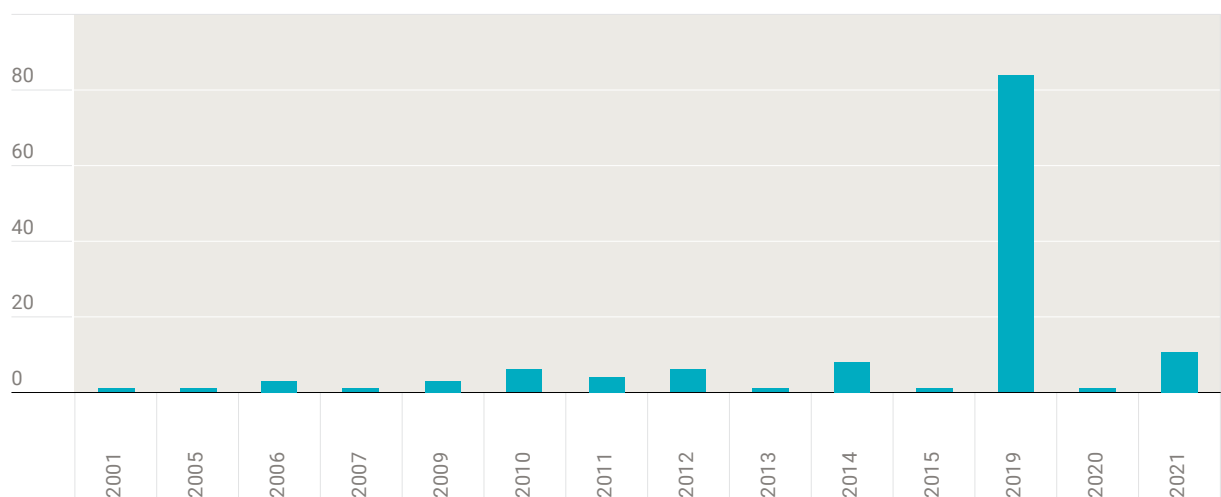
DISTRIBUTION OF REGULATIONS PER ITEM

SOURCE: ACEA



YEARLY ISSUANCE OF NEW AND AMENDED REGULATIONS

SOURCE: ACEA



Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Framework regulation on vehicles, systems and components type approval	Regulation (EU) 2018/858	No
Mixed	Regulation amending annexes II and VII to Regulation (EU) 2018/858	Commission Delegated Regulation (EU) 2021/1445	No
Mixed	Rules on the application of Regulation (EU) 2018/858 of the European Parliament and of the Council as regards to functional requirements for market surveillance of vehicles, systems, components and separate technical units	Commission Implementing Regulation (EU) 2022/163	Yes
Safety	Type-approval requirements for the general safety of motor vehicles	Regulation (EC) No 661/2009 (till 06.07.2022)	Yes
Safety	Type-approval requirements for the general safety of motor vehicles	Regulation (EU) 2019/2144 (General Safety Regulation) (from 07.07.2022)	Yes
Mixed	Rules for the application of Regulation (EU) 2019/2144 regarding uniform procedures and technical specifications for the type-approval of vehicles, of systems, components and separate technical units intended for such vehicles, their general construction and safety characteristics - Annex II, statutory plate and the vehicle identification number - Annex III, space for mounting and fixing of front and rear registration plates - Annex IV, windscreen wiper and washer systems - Annex V, wheel guards - Annex VI, windscreen defrosting and demisting systems - Annex VII, towing devices - Annex VIII, spray suppression systems - Annex IX, gear shift indicators (gsi) - Annex X, vehicle access - Annex XI, reversing motion - Annex XII, frontal protection systems for M1 and N1 vehicles - Annex XIII, masses and dimensions - Annex XIV, hydrogen system material compatibility and fuelling receptacle	Commission Implementing Regulation (EU) 2021/535	Yes
Mixed	Basic format, structure and the means of exchange of the data on the certificate of conformity in electronic format	Commission Implementing Regulation (EU) 2021/133	No
Mixed	Administrative requirements for the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	Commission Implementing Regulation (EU) 2020/683	No

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Amending and correcting Implementing Regulation (EU) 2020/683 as regards to the information document, the vehicle approval certificates, the test result sheet and the certificates of conformity in paper format	Commission Implementing Regulation (EU) 2022/195	No
Mixed	Online data exchange and the notification of EU type-approvals under Regulation (EU) 2018/858	Commission Implementing Regulation (EU) 2020/1812	No
Safety	Prevention of fire risks (liquid fuel tanks) (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R34	No
Safety	Rear Underrun Protective Devices (RUPD) and their installation; Rear Underrun Protection (RUP) (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R58	Yes
Safety	Steering equipment (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R79	Yes
Safety	Vehicle access and manoeuvrability (steps, running boards and handholds) (M1, N category)	Regulation (EC) No 2019 / 2144 Commission Regulation (EU) No 130 / 2012	No
Safety	Door latches and door retention components (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R11	No
Safety	Audible warning devices and signals (M, N category)	Regulation (EC) No 2019 / 2144 UN R28	Yes
Safety	Devices for indirect vision and their installation (M, N category)	Regulation (EC) No 2019 / 2144 UN R46	Yes
Safety	Braking of vehicles and trailers (M2, M3, N, O category)	Regulation (EC) No 2019 / 2144 UN R13	Yes
Safety	Braking of passenger cars (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R13-H	Yes
Safety	Interior fittings (M1 category)	Regulation (EC) No 2019 / 2144 UN R21	No
Technical	Protection of motor vehicles against unauthorised use (M2, M3, N2, M3, O category)	Regulation (EC) No 2019 / 2144 UN R18	
Safety	Protection of the driver against the steering mechanism in the event of impact (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R12	No
Safety	Seats, their anchorages and any head restraints (M, N category)	Regulation (EC) No 2019 / 2144 UN R17	No
Safety	External projections (M1 category)	Regulation (EC) No 2019 / 2144 UN R26	Yes
Safety	Safety belt anchorages, ISOFIX anchorage systems and ISOFIX top tether anchorages (M, N category)	Regulation (EC) No 2019 / 2144 UN R14	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Installation of lighting and light-signalling devices on vehicles (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R48	Yes
Safety	Retro-reflecting devices for power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R3	Yes
Safety	Front and rear position lamps, stop lamps and end-outline marker lamps for motor vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R7	Yes
Safety	Daytime running lamps for power-driven vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R87	Yes
Safety	Side-marker lamps for motor vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R91	Yes
Safety	Direction indicators for power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R6	Yes
Technical	Illumination of rear registration plates of power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R4	Yes
Safety	Power-driven vehicle sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both (M, N category)	Regulation (EC) No 2019 / 2144 UN R31	Yes
Safety	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R37	Yes
Safety	Motor vehicle headlamps equipped with gas-discharge light sources (M, N category)	Regulation (EC) No 2019 / 2144 UN R98	Yes
Safety	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R99	Yes
Safety	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both, and equipped with filament lamps and / or LED modules (M, N category)	Regulation (EC) No 2019 / 2144 UN R112	Yes
Safety	Adaptive front-lighting systems (AFS) for motor vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R123	Yes
Safety	Power-driven vehicle front fog lamps (M, N category)	Regulation (EC) No 2019 / 2144 UN R19	Yes
Safety	Rear fog lamps for power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R38	Yes
Safety	Reversing lights for power-driven vehicles and their trailers (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R23	Yes
Safety	Parking lamps for power-driven vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R77	Yes

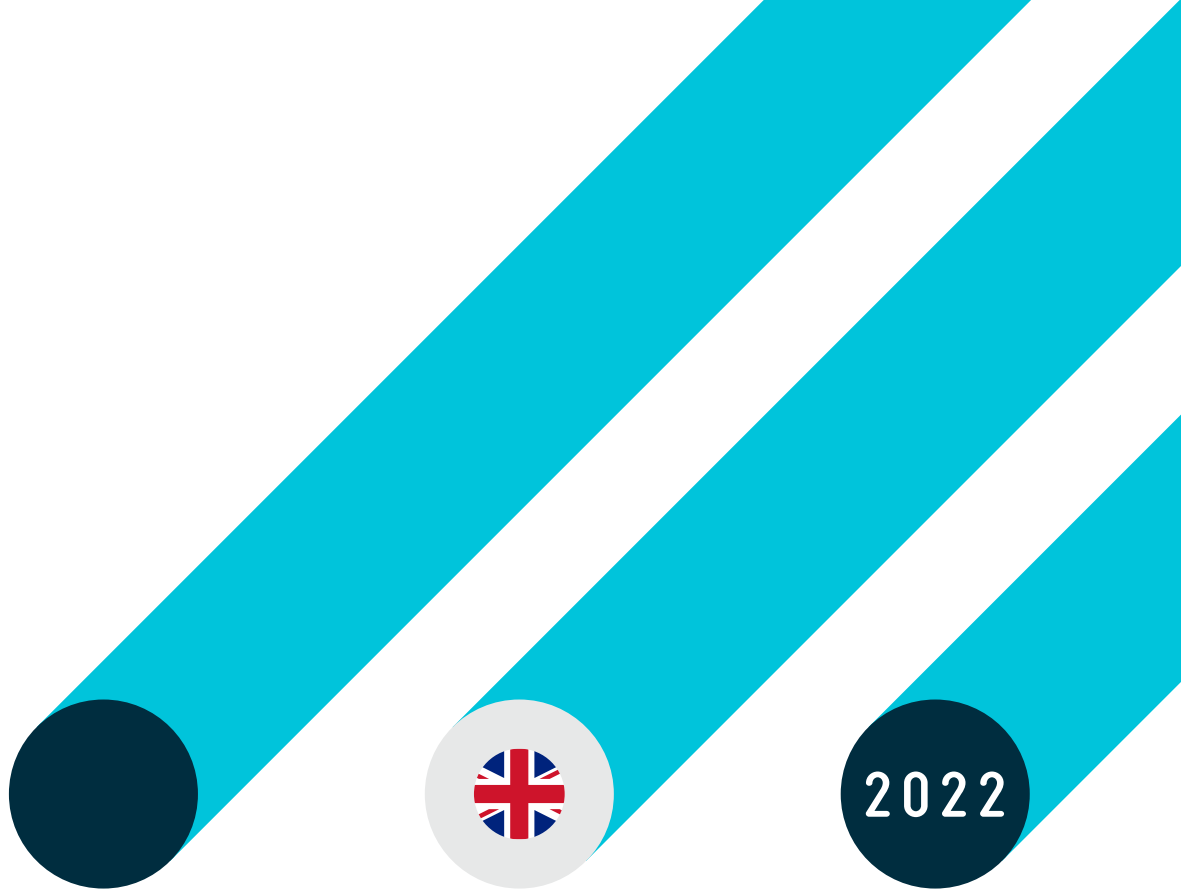
Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Safety belts, restraint systems, child restraint systems and ISOFIX child restraint systems (M, N category)	Regulation (EC) No 2019 / 2144 UN R16	Yes
Safety	Forward field of vision (M1 category)	Regulation (EC) No 2019 / 2144 UN R125	No
Safety	Location and identification of hand controls, tell-tales and indicators (M, N category)	Regulation (EC) No 2019 / 2144 UN R121	Yes
Safety	Windscreen defrosting and demisting systems (M1 category)	Commission Regulation (EU) No 672 / 2010	
Safety	Windscreen wiper and washer systems (M1 category)	Commission Regulation (EU) No 1008 / 2010	Yes
Safety	Wheel guards (M1 category)	Commission Regulation (EU) No 1009 / 2010	No
Safety	Head restraints (headrests), whether or not incorporated in vehicle seats (M1 category)	Regulation (EC) No 2019 / 2144 UN R25	Yes
Safety	Lateral protection of goods vehicles (N2, N3, O3, O4 category)	Regulation (EC) No 2019 / 2144 UN R73	No
Safety	Safety glazing materials and their installation on vehicles (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R43	Yes
Safety	Speed limitation of vehicles (M2, M3, N2, N3 category)	Regulation (EC) No 2019 / 2144 UN R89	Yes
Safety	Protection of occupants in the event of a lateral collision (M1 category)	Regulation (EC) No 2019 / 2144 UN R94	No
Safety	Protection of occupants in the event of a lateral collision (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R95	No
Safety	Pole side impact (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R135	No
Safety	Vehicles for the carriage of dangerous goods (N, O category)	Regulation (EC) No 2019 / 2144 UN R105	No
Safety	Front Underrun Protective Devices (FUPD) and their installation; Front Underrun Protection (FUP) (N2, N3 category)	Regulation (EC) No 2019 / 2144 UN R93	No
Safety	Pedestrian protection (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R127	No
Safety	Hydrogen system (M, N, O4 category)	Regulation (EC) No 2019 / 2144 UN R134	Yes
Safety	Advanced Emergency Braking System (AEBS) (M2, M3, N2, N3 category)	Regulation (EC) No 2019 / 2144 UN R131	No
Safety	Lane Departure Warning System (M2, M3, N2, N3 category)	Regulation (EC) No 2019 / 2144 UN R130	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Specific components for liquefied petroleum gas (LPG) and their installation on motor vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R67	Yes
Safety	Electric safety (M, N category)	Regulation (EC) No 2019 / 2144 UN R100	Yes
Safety	Specific components for compressed natural gas (CNG) and their installation on motor vehicles (M, N category)	Regulation (EC) No 2019 / 2144 UN R110	Yes
Safety	eCall system (M1, N1 category)	Regulation (EU) 2015 / 758 of the European Parliament and of the Council UN R144	Yes
Technical	Space for mounting and fixing rear registration plates (M, N, O category)	Commission Regulation (EU) No 1003 / 2010	No
Technical	Protection of motor vehicles against unauthorised use (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R116	Yes
Safety	Seats of large passenger vehicles (M2, M3 category)	Regulation (EC) No 2019 / 2144 UN R80	Yes
Technical	Vehicle access and manoeuvrability (reverse gear) (M, N category)	Regulation (EU) No 130 / 2012	No
Technical	Speedometer equipment including its installation (M, N category)	Regulation (EC) No 2019 / 2144 UN R39	No
Technical	Manufacturer's statutory plate and Vehicle Identification Number (VIN) (M, N, O category)	Regulation (EU) No 19 / 2011	No
Technical	Towing device (M, N category)	Commission Regulation (EU) No 1005 / 2010	No
Technical	Heating systems (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R122	Yes
Technical	Spray suppression systems (N, O category)	Commission Regulation (EU) No 109 / 2011	No
Technical	Masses and dimensions	Regulation (EU) No 1230 / 2012	No
Technical	Installation of tyres (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R142	No
Technical	Pneumatic tyres for motor vehicles and their trailers (Class C1) (M1, N1, O1, O2 category)	Regulation (EC) No 2019 / 2144 UN R30	Yes
Technical	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3) (M2, M3, N1, N2, N3, O3, O4 category)	Regulation (EC) No 2019 / 2144 UN R54	Yes
Technical	Temporary-use spare unit, run-flat tyres / system and tyre pressure monitoring system (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R64	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Commercial vehicles with regard to their external projections forward of the cab rear panel (N category)	Regulation (EC) No 2019 / 2144 UN R61	Yes
Technical	Mechanical coupling components of combinations of vehicles (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R55	Yes
Technical	Close-coupling device (CCD); fitting of an approved type of CCD (N2, N3, O3, O4)	Regulation (EC) No 2019 / 2144 UN R102	Yes
Safety	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles (M3 category)	Regulation (EC) No 2019 / 2144 UN R118	No
Technical	M2 and M3 vehicles (M2, M3 category)	Regulation (EC) No 2019 / 2144 UN R107	No
Safety	Strength of the superstructure of large passenger vehicles (M2, M3 category)	Regulation (EC) No 2019 / 2144 UN R66	No
Technical	Vehicle Alarm Systems (VAS) (M1, N1 category)	Regulation (EC) No 2019 / 2144 UN R97	Yes
Safety	Cab strength (N category)	Regulation (EC) No 2019 / 2144 UN R29	No
Environment	Sound level (M, N category)	Regulation (EU) No 540 / 2014 UN R51	No
Environment	Emissions (Euro 5 and Euro 6) light-duty vehicles / access to information (M1, M2, N1, N2 category)	Regulation (EC) No 715 / 2007	Yes
Environment	Electromagnetic compatibility (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R10	Yes
Environment	Emissions (Euro VI) heavy-duty vehicles / access to information (M, N category)	Regulation (EC) No 595 / 2009	Yes
Mixed	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3) (M, N, O category)	Regulation (EC) No 2019 / 2144 UN R117	No
Environment	Recyclability (M1, N1 category)	Directive 2005 / 64 / EC	No
Environment	Air-conditioning systems (M1, N1 category)	Directive 2006 / 40 / EC	No
Environment	Gear shift indicators (M1 category)	Commission Regulation (EU) No 65 / 2012	
Safety	General product safety *	Directive 2001 / 95 / EC	Yes
Environment	Restriction of the use of certain hazardous substances in electrical and electronic equipment *	Directive 2011 / 65 / EU	Yes
Environment	Waste electrical and electronic equipment *	Directive 2012 / 19 / EU	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Batteries and waste batteries *	Directive 2006 / 66 / EC	Yes
Environment	Labelling of tyres with respect to fuel efficiency and other parameters *	Regulation (EU) 2020 / 740	Yes
Technical	Ecodesign requirements for energy-related products *	Directive 2009 / 125 / EC	Yes
Technical	Simple pressure vessels *	Directive 2014 / 29 / EU	Yes
Technical	Electrical equipment designed for use within certain voltage limits *	Directive 2014 / 35 / EU	Yes
Technical	Machinery *	Directive 2006 / 42 / EC	Yes
Technical	Electromagnetic compatibility *	Directive 2014 / 30 / EU	Yes
Radio	Radio equipment *	Directive 2014 / 53 / EU	Yes
Technical	Pressure equipment *	Directive 2014 / 68 / EU	Yes
Technical	Transportable pressure equipment *	Directive 2010 / 35 / EU	Yes
Technical	Pyrotechniques *	Directive 2013 / 29 / EU	Yes
Technical	Interoperability of Electronic Road Toll System *	Decision 2009 / 750 / EC Implementing Directive 2004 / 52 / EC	
Technical	Tachographs in road transport *	Regulation (EU) No 165 / 2014 EU COMM implementing regulation (EU) 2019 / 1213 dt: 12.07.2019 regarding implementation of interoperability and compatibility of on-board weighing equipment pursuant to Council Directive 96 / 53 / EC	Yes
Technical	Smart Tachographs Version 2*	Commission Implementing Regulation (EU) 2021/1228	Yes
Mixed	Technical information necessary for roadworthiness testing *	Directive 2014 / 45 / EU Regulation (EU) 2019 / 621	
Technical	On-board weighing system (M2, M3, N2, N3 category) *	Regulation (EU) 2019 / 1213 Directive (EU) 2015 / 719	Yes
Aftersales	Replacement silencing systems	UN R59	Yes
Aftersales	Replacement brake lining assemblies and drum brake linings	UN R90	Yes
Aftersales	Replacement catalytic converters	UN R103	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Replacement airbags	UN R114	Yes
Aftersales	Replacement wheels for passenger vehicles	UN R124	Yes
Technical	Standardised access to vehicle on-board diagnostics information and repair and maintenance information	Commission Delegated Regulation (EU) 2021/1244	
Safety	Driver drowsiness and attention warning systems	Commission Delegated Regulation (EU) 2021/1341	
Safety	Alcohol interlock installation facilitation in motor vehicles	Commission Delegated Regulation (EU) 2021/1243	
Safety	Emergency Lane-Keeping Systems (ELKS)	Commission Implementing Regulation (EU) 2021/646	No
Safety	Intelligent speed assistance systems	Commission Delegated Regulation (EU) 2021/1958	No
Safety	Event data recorder	Commission delegated regulation (EU) .../... of XXX supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to event data recorder G/TBT/N/EU/838	No
Mixed	Registration, evaluation, authorization and restriction of chemicals	Regulation (EC) No 1907/2006 (REACH Regulation)	
Mixed	Intelligent Transport Systems (ITS)	Directive 2010/40/EU Commission Delegated Regulation (EU) No 886/2013 Planned Revision of the ITS Directive	
Mixed	Alternative Fuel Infrastructure	Proposal for a Regulation on the deployment of alternative fuels infrastructure, and repealing Directive 2014/94/EU 2021/0223 (COD)	
Environment	Determination of the CO2 emissions and fuel consumption of medium and heavy lorries and heavy buses	Draft Commission Regulation amending Regulation (EU) 2017/2400 as regards the determination of the CO2 emissions and fuel consumption of medium and heavy lorries and heavy buses and the introduction of electric vehicles and other new technologies G/TBT/N/EU/839	



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MINISTRY AND REGULATORY AUTHORITIES

DfT

Department for Transport

Regulates, providing policy and guidance with priority on safe, secure and sustainable transport

BEIS

Department for Business, Energy & Industrial Strategy

Regulates and responsible for business, industrial strategy, science, research and innovation, energy and clean growth and climate change

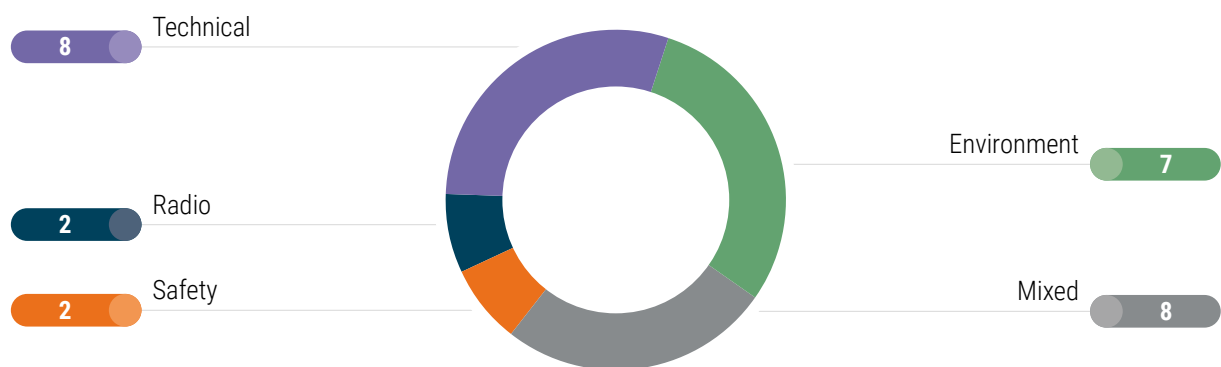
VCA

Vehicle Certification Agency

Designated UK Type Approval Authority for automotive products and also a designated Technical Service for type approval testing in the United Nations (UN) scheme. VCA is also responsible for certification under UK type approval schemes.

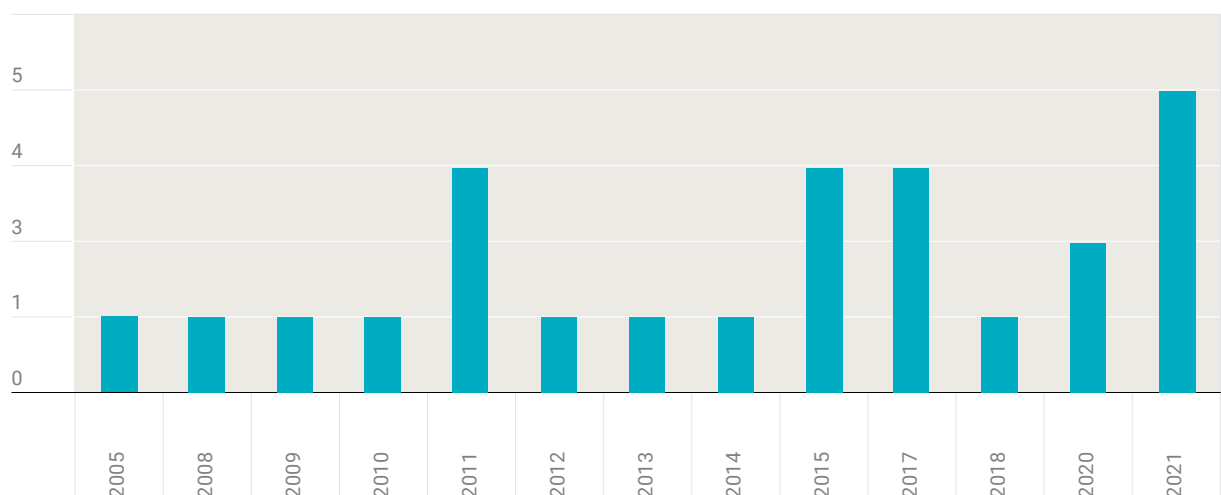
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MINISTRY AND REGULATORY AUTHORITIES

The United Kingdom comprises four countries: England, Scotland, Wales, Northern Ireland.

For the purposes of type approval and placing on the UK market, different rules apply for Northern Ireland and Great Britain*.

*Great Britain (GB) consists of England, Scotland, and Wales only.

Type Approval in GB following Brexit

EU type approvals issued by EU-27 Type Approval Authorities are no longer automatically accepted in GB for the purpose of registering vehicles for use on the road. Holders of EU-27 Type Approvals must apply for a GB 'provisional' approval from the UK Approval Authority.

Since 1 January 2021, GB has operated a Provisional GB Type Approval Scheme covering motor vehicles which are registered for use on GB's roads. Due to provisions in the Northern Ireland Protocol (NIP), EU approvals can still be used for placing on the market, sale and registration of vehicles, components and separate technical units in NI.

UK Regulatory Framework and retained EU technical regulations

When the United Kingdom left the EU, all applicable and in force EU legislation was retained into UK domestic law immediately as it stood on 31 December 2020. For type approval, the UK adopted 'The Road Vehicles (Approval) Regulations 2020' to provide the domestic regulatory framework to implement Regulation (EU) 2018/858 in the UK. All the detailed type approval requirements for vehicles under The Road Vehicles (Approval) Regulations 2020 are those set out in the directly applicable subsidiary EU Regulations, as retained on 31 December 2020.

New legislation applicable in the EU since 1 January 2021 is no longer applicable to the UK.

Guide to the following UK pages

At the time of publication, the technical requirements for type approval subjects within The Road Vehicles (Approval) Regulations 2020 remain the same as those set out in the directly applicable subsidiary EU Regulations, as retained on 31 December 2020. UNECE Regulations relevant to each type approval subject continue to be recognised by the UK¹.

1. Where UK requirements diverge from the subsidiary EU Regulations, these are denoted with footnote 2. UK Regulations which transpose other EU Directives and Regulations - and form placing on the market requirements for the UK - are denoted with footnote 3. (1 examples include Heavy-Duty Euro VI Step E, and General Safety Regulation 2 and any implementing measures)

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	UK domestic regulatory framework – Implementing Regulation (EU) 2018/858 on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles, amending Regulations (EC) No 715/2007 and (EC) No 595/2009 and repealing Directive 2007/46/EC.	The Road Vehicles (Approval) Regulations 2020	Yes
Mixed	GB Comprehensive Type Approval Scheme	Legislation not yet defined. Due for publication in 2022.	
Environment	Emissions (HDV CO2 performance standards, including monitoring and reporting) ²	The New Heavy-Duty Vehicles (Carbon Dioxide Emission Performance Standards) (Amendment) (EU Exit) Regulations 2020	
Environment	Emissions (Light Duty CO2) ²	The Road Vehicle Carbon Dioxide Emission Performance Standards (cars and vans) (Amendment) (EU Exit) Regulations 2021	
Environment	End-of-life vehicles	The End-of-life Vehicles Regulations 2003 (as amended) and the End-of-life Vehicles (Producer Responsibility) Regulations 2005 (as amended)	
Environment	Labelling of tyres with respect to fuel efficiency and other parameters ^{2,3}	The Motor Vehicle Tyres (Labelling) (Enforcement) (Amendment) (EU Exit) Regulation 2020	
Environment	Batteries and waste batteries ³	Waste Batteries and Accumulators Regulations 2009	
Environment	Restriction of the use of certain hazardous substances in electrical and electronic equipment	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	
Environment	Waste electrical and electronic equipment	Waste Electrical and Electronic Equipment Regulations 2013	
Safety	Automated and electric vehicles	Automated and Electric Vehicles Act 2018	
Safety	General product safety ³	The General Product Safety Regulations 2005	
Technical	Tachographs	The Drivers' Hours and Tachographs (Amendment) Regulations 2021	
Technical	Ecodesign requirements for energy-related products ³	The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019	
Technical	Simple pressure vessels ³	The Product Safety and Metrology etc. (Amendment etc) (EU Exit) Regulations 2019	
Technical	Low Voltage Equipment ³	Electrical Equipment (Safety) Regulations 2016	

2. UK regulations where processes diverge from the retained subsidiary EU regulations

3. UK Regulations which transpose other EU Directives and Regulations, and form placing on the market requirements

Note: Subsidiary EU legislation, as retained in UK law, can be found at www.legislation.gov.uk

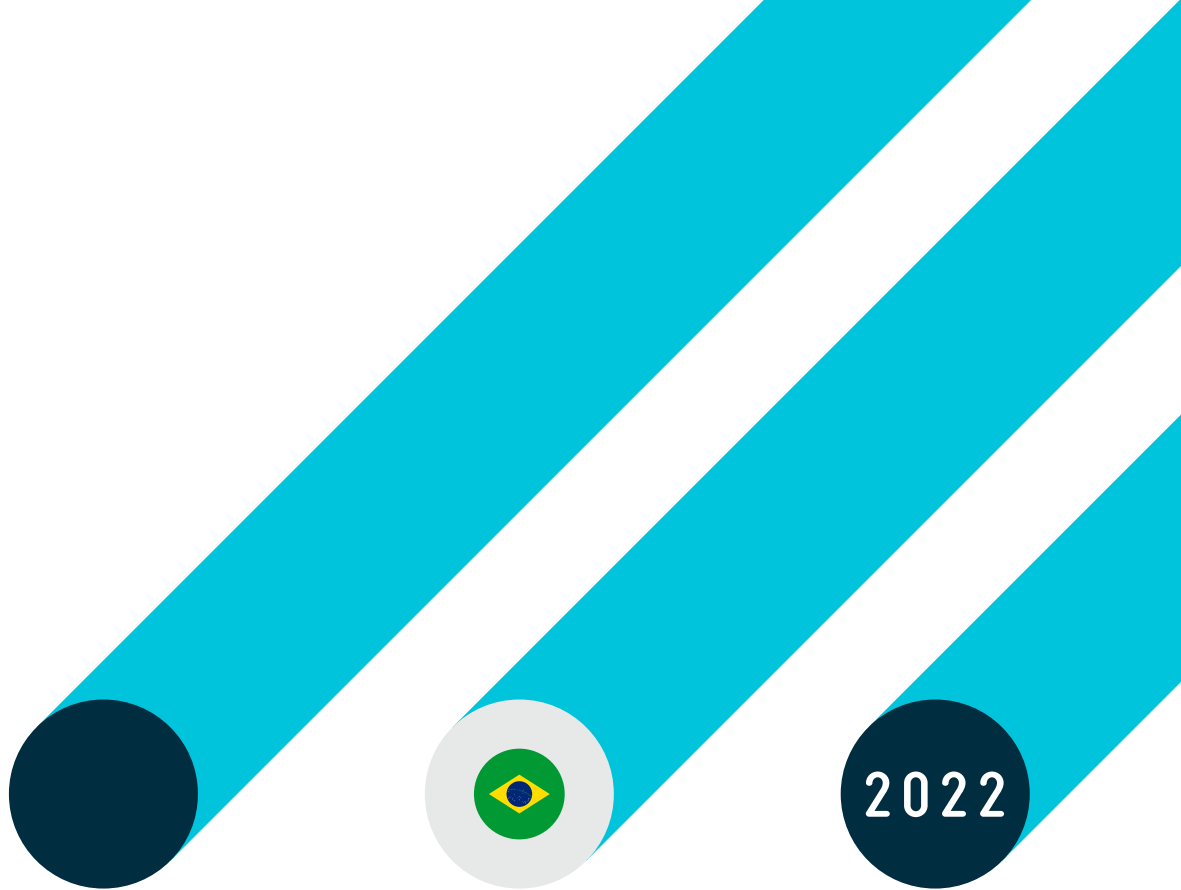


Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Machinery ³	Supply of Machinery (Safety) Regulations 2008	
Technical	Electromagnetic compatibility ³	Electromagnetic Compatibility Regulations 2016	
Technical	Transportable pressure equipment ³	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) (EU Exit) Regulations 2020	
Technical	Pyrotechnic articles ³	The Pyrotechnic Articles (Safety) Regulations 2015	
Radio	Radio equipment ³	Radio Equipment Regulations 2017	
Radio	Vehicle radars	Wireless Telegraphy (Automotive Short Range Radar) (Exemption) Regulations 2020	

2. UK regulations where processes diverge from the retained subsidiary EU regulations

3. UK Regulations which transpose other EU Directives and Regulations, and form placing on the market requirements

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INMETRO Brazilian Institute of Metrology, Quality and Technology
ANATEL National Telecommunications Agency
DENATRAN National Traffic Department

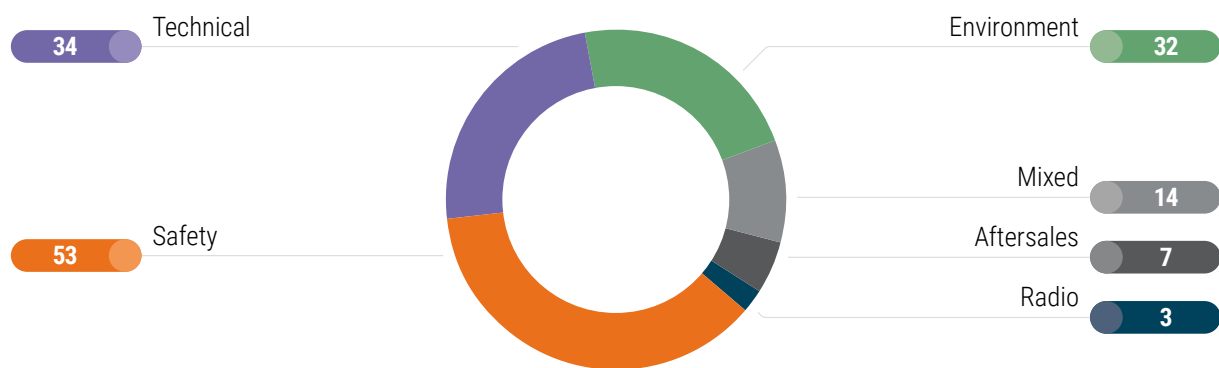
CONTRAN National Traffic Council
ABNT NON-GOVERNMENTAL BODY Brazilian Association on Technical Standards

MMA MINISTRY OF ENVIRONMENT

IBAMA Brazilian Institute for the Environment & Renewable Natural Resources
CONAMA National Environmental Council

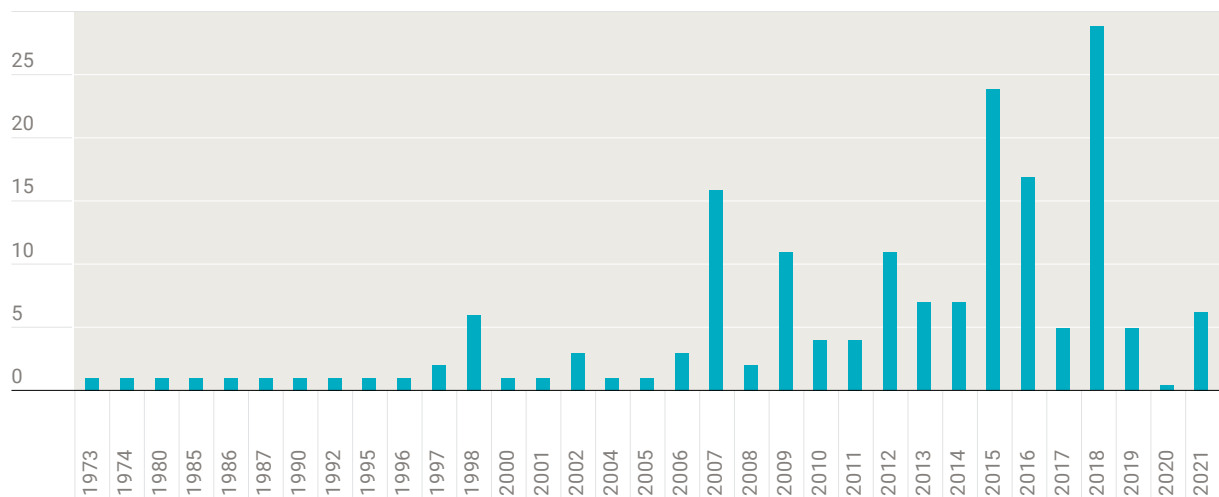
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Certification of steering components (tie rod ends / ball joint, steering draglinks, tie rods, axial rod ends)	INMETRO 268 / 2013 INMETRO 247 / 2013 INMETRO 29 / 2015 INMETRO 455 / 2014	Yes
Safety	Obligation to equip with Anti-lock Braking System (ABS)	CONTRAN 380 / 2011 (amended by CONTRAN 596 / 16, 535 / 15 and 395 / 11)	No
Safety	Requirement for brakes, braking systems (temporary replacement device)	CONTRAN 519 / 2015	No
Safety	Requirement for brake fluid	INMETRO 078 / 2011 INMETRO Ordinance No 456 of 16.11.2021	
Safety	Certification friction materials for road vehicle brakes	INMETRO 55 / 2014 INMETRO 80 / 2016	Yes
Safety	Production and retreading of tyres with tread-wear indicators	CONTRAN 558 / 1980	
Safety	Requirements for the conformity assessment of new tyres	INMETRO 544 / 2012 INMETRO 538 / 2012 INMETRO 365 / 2015 INMETRO 251 / 2016 INMETRO 398/2019	Yes
Safety	Spare and temporary use wheels, Tyre Pressure Monitoring System (TPMS) and run-flat tyres	CONTRAN 540 / 2015 (amended by CONTRAN 719 / 17)	Yes
Safety	Requirement for spare tyre information plate	CONTRAN 540 / 2015 (amended by CONTRAN 719 / 17) INMETRO for wheels and tyres	Yes
Safety	Requirement for wheels / trims	INMETRO Ordinance No 501, of 20.12.2021 Revoked: INMETRO 445 / 2010 INMETRO 17 / 2013 INMETRO 362 / 2011 INMETRO 421 / 201	Yes
Safety	Certification of various vehicle components (steering terminals, steering bars, tie bars, axial terminals for motor vehicles, suspension, shock absorbers, fuel pumps for Otto cycle engines, horns, piston aluminum alloy, pin and locking snap, ring, piston rings, upper and lower bearings, lamps)	INMETRO 301 / 2011 INMETRO 275 / 2012 INMETRO 17 / 2013 (revoked) INMETRO 29 / 2015 INMETRO 455 / 2014 INMETRO Ordinance No 501, of 20.12.2021	Yes
Safety	Requirement for external projections (only for wheels)	CONTRAN 426 / 2012	No
Safety	Requirement for pedestrian protection	CONTRAN 752 / 2018	No
Safety	Requirement for additional fuel tank and change of volume (original fuel tank)	CONTRAN 181 / 2005 (amended by CONTRAN 194 / 2006)	
Safety	Requirement for hood latch	CONTRAN 426 / 2012	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for door locks and hinges	CONTRAN 463 / 1973 (superseded by CONTRAN 757 / 2018 as of 01.01.2024) CONTRAN 486 / 1974	No
Safety	Requirements for door locks and hinges (transfer of the subject "door locks and hinges" from CONTRAN 463 / 1973 to 757 / 2018) Seat strength	CONTRAN 757 / 2018	No
Safety	Control of the direction of the energy absorber – Test method for determination of characteristics	ABNT NBR 7540:2016 CONTRAN 463 / 73 – Repealed by 708 / 17	
Safety	Requirement for interior fittings, power-operated windows	CONTRAN 531 / 2015 CONTRAN 468 / 2013 (amended by CONTRAN 642 / 16)	No
Safety	Installation of head restraints at all seating positions, safety belts and their anchoring (ISOFIX - excluded 2+2 seats)	CONTRAN 518 / 2015 (repeals CONTRAN 44 / 1998 as of 29.01.2020)	No
Safety	Requirement for safety belt reminder	CONTRAN 760 / 2018	No
Safety	Flammability of interior materials	CONTRAN 498 / 2014	No
Safety	Requirement for controls, indicator lights and displays	CONTRAN 225 / 2007 (superseded by CONTRAN 758 / 2018 as of 01.01.2021) CONTRAN 758 / 2018 ABNT NBR 16320:2014	No
Safety	Anti-theft system	CONTRAN 37 / 1998	No
Safety	Requirement for frontal impact	CONTRAN 221 / 2007 (amended by CONTRAN 595 / 16 and 255; superseded by CONTRAN 756 / 18 as of 01.01.2026) CONTRAN 595 / 2016 CONTRAN 255 / 2007 CONTRAN 756 / 2018 (repeals CONTRAN 221 / 2007 as of 01.01.2026)	No
Safety	Requirement for side impact (only for moveable barriers)	CONTRAN 721 / 2018	No
Safety	Occupants protection of commercial vehicles (cab strength)	CONTRAN 765 / 2018	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for structure behaviour in event of rear impact	CONTRAN 221 / 2007 (amended by CONTRAN 595 / 16 and 255; revoked as of 01.01.2026 by CONTRAN 756 / 18) CONTRAN 595 / 2016 CONTRAN 255 / 2007 CONTRAN 756 / 2018 (repeals 221 / 2007 as of 01.01.2026) (subordinate regulation for ABNT NBR 15240)	No
Safety	Requirement for fuel tank tightness in the event of rear impact	CONTRAN 221 / 2007 (amended by 595 / 16 and 255; revoked as of 01.01.2026 by Resolution 756 / 18) CONTRAN 595 / 2016 CONTRAN 255 / 2007 CONTRAN 756 / 2018 (repeals 221 / 2007 as of 01.01.2026)	No
Safety	Requirement for pole side impact	CONTRAN 751 / 2018	No
Safety	Requirement for rear-end impact	CONTRAN 756 / 2018 (repeals 221 / 2007 as of 01.01.2026)	No
Safety	Audible warning devices	CONTRAN 764 / 2018 CONTRAN 37 / 1998 CONTRAN 35 / 1998	
Safety	Rear Underrun Protective Devices (RUPD)	CONTRAN 593 / 2016 CONTRAN 674 / 2017 CONTRAN 645 / 19	
Safety	Seat belt anchorages, restraint systems	CONTRAN 646 / 2018 (M2) CONTRAN 753 / 2018 (M2) CONTRAN 518 / 2015 CONTRAN 416 / 2012 (M2) CONTRAN 568 / 2015 (M2)	
Safety	Child restraints systems	CONTRAN 639 / 2016 CONTRAN 541 / 2015 CONTRAN 533 / 2015 CONTRAN 352 / 2010 CONTRAN 518 / 2015 (ISOFIX anchorage) CONTRAN 277 / 2008 INMETRO 466 / 2014 INMETRO 246/2021	
	Safety requirements Road vehicles Child restraints	ABNT NBR 14400:2020	
Safety	Steering equipment Control of the direction of the energy absorber – Test method for determination of characteristics	ABNT NBR 7540:2016	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Front Underrun Protection Devices	CONTRAN 755 / 2018	
Safety	Vehicle Alarm Systems	CONTRAN 686 / 1987 CONTRAN 559 / 2015 CONTRAN 37 / 1998 CONTRAN 35 / 1998 CONTRAN 764 / 2018 CONTRAN 559 / 15 suspends the effects from CONTRAN 245 / 07 regarding the tracking and blocking device	
Safety	Requirements for vehicles propelled by hybrid, plug-in hybrid and electric propulsion	CONTRAN 749 / 2018	
Safety	Requirement for seat anchoring Seat strength	CONTRAN 518 / 2015 CONTRAN 416 / 2012 (M2)	No
Safety	Electronic Stability Control (ESC)	CONTRAN 567 / 2015 CONTRAN 641 / 2016	No
Safety	Indirect vision	CONTRAN 226 / 2007 CONTRAN 763 / 2018 (M2 – school) CONTRAN 703 / 2017	
Safety	Speedometer	CONTRAN 14 / 98	
Safety	Replacement silencing systems	CONAMA 01 / 1993 CONAMA 17 / 1995	
Safety	Strength of superstructure (buses and coaches)	CONTRAN 445 / 13 CONTRAN 629 CONTRAN 644	
Safety	Lateral protection (goods vehicles and their trailers)	ABNT NBR 16204-2:2013 (Road vehicles – Occupant protection – Side impact tests. Part 2: Procedure and performance requirements in side impact test with impact speed at an angle of 63° to the longitudinal axis of the vehicle) Resolution CONTRAN 323 / 09	
Safety	Strength of seats and their anchorages (large passenger vehicles)	Resolution CONTRAN 463 / 73 Resolution CONTRAN 406 / 12 (M2 only)	
Safety	Requirement for road load resistance Procedure for determination of road load resistance	ABNT NBR 10312:2014 INMETRO 377 / 2011	
Safety	Buses and coaches (Category M2 or M3 Vehicles)	CONTRAN 445 / 13 CONTRAN 629 CONTRAN 644	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Scope of application: headlight for high beam, dimmed headlights, fog lights, reversing light, driving indicator (front, side, rear), brake / registration / limitation / tail / rear / fog / park / outline marker lights, reflectors (front, side, rear), side marker / daytime running light / turning light	CONTRAN 227 / 2007 (amended by CONTRAN 294 / 2008 and 383 / 2011, superseded by CONTRAN 667 / 2017 as of 01.01.2023) CONTRAN 436 / 2013 (superseded by CONTRAN 667 / 2017 as of 01.01.2023) CONTRAN 761 / 2018	No
Technical	Requirement for lighting devices (installation)	CONTRAN 667 / 2017 (valid as of 01.01.2021) CONTRAN 761 / 2018	No
Technical	Rear registration plate lighting	CONTRAN 227 / 2007 CONTRAN 667 / 2017	
Technical	Requirement for warning triangle	CONTRAN 827 / 1996 CONTRAN 14 / 1998	No
Technical	Requirement for acoustic signs	CONTRAN 35 / 1998 (revoked by CONTRAN 764 / 18 as of 01.01.2022) CONTRAN 37 / 1998	No
Technical	Requirement for safety glass	CONTRAN 254 / 2007 (amended by CONTRAN 078 / 09; 386 / 11; 580 / 16; 707 / 17)	No
Technical	Requirement for windscreen wiper and washer	CONTRAN 224 / 2007	No
Technical	Requirement for mirrors (interior and exterior)	CONTRAN 703 / 2017 CONTRAN 226 / 2007 (valid until October 2024)	No
Technical	Requirement for rear warning and monitoring systems according to ISO 17386	CONTRAN 759 / 2018	No
Technical	Installation and use of navigation systems and TV / Video	CONTRAN 242 / 2007	No
Technical	Requirement for Emergency Stop Signal (ESS)	CONTRAN 761 / 2018 CONTRAN 667 / 2017	No
Technical	Requirement for structure of Vehicle Identification Number (VIN)	CONTRAN 24 / 1998 (amended by CONTRAN 581 / 16) CONTRAN 581 / 2016 ABNT NBR 6066 DENATRAN Ordinance 17 / 2000	No
Technical	Requirement for registration plate	CONTRAN 780 / 2019	No
Technical	Requirements for lead-acid batteries	INMETRO 455 / 2014 CONAMA 401 / 2008 (amended by CONAMA 424 / 2010) INMETRO 199 / 2015 INMETRO 299 / 2012 INMETRO Ordinance 299 / 12 CONAMA 401 / 2008 INMETRO Ordinance 239 / 12	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirements for application of engraved Vehicle Identification Number	Res 24 / 98 MERCOSUL / GMC / Res 87 / 94 ABNT NBR 6066 DENATRAN Ordinance 17 / 00	No
Technical	Mechanical coupling devices	CONTRAN 197 / 2006 (amended by CONTRAN 234 / 2007) Standards NBR ISO 3853 / 1998 NBR ISO 1103 / 2007 INMETRO 215 / 2007 INMETRO 16 / 2009	Yes
Technical	Fire resistance of interior materials	CONTRAN 545 / 2015 CONTRAN 498 / 2014	
Technical	Rear registration plate	CONTRAN 780 / 2019	
Technical	Spray-suppression systems	CONTRAN 762 / 2018	
Technical	Fire extinguisher	INMETRO 486 / 2010 INMETRO 158 / 2015 CONTRAN 14 / 1998 CONTRAN 556 / 2015	Yes
Technical	5° Wheel	INMETRO 236 / 2008 INMETRO 239 / 2020	Yes
Technical	Tachograph	INMETRO 201 / 2004	
Technical	Microwave	INMETRO 497 / 2011	
Technical	TV	INMETRO 563 / 2014	
Technical	Accessibility for complete urban buses	INMETRO 153 / 2009	
Technical	Accessibility for complete intercity buses	INMETRO 152 / 2009	
Technical	Auxiliary axle used in transformed vehicles	INMETRO 13 / 2014	
Technical	Dangerous goods transportation	INMETRO 91 / 2009 INMETRO 457 / 2008	
Environment	Complement to existing requirements for limits, measurement and durability of emission testing – PROCONVE L7. Real Driving Emissions (RDE) Monitoring (light-duty vehicles)	CONAMA 492 / 2018 (PROCONVE L-7 emission standards will go into effect beginning 01.01.2022)	No
	Complement to existing requirements for limits, measurement and durability of emission testing – PROCONVE L8. RDE with Conformity Factor (CF), complement fleet requirement (light-duty vehicles)	CONAMA 492 / 2018	No
	Real Driving Emissions Test for the Proconve L7 And L8 Phases	Normative Instruction No 3 of 24.02.2021	

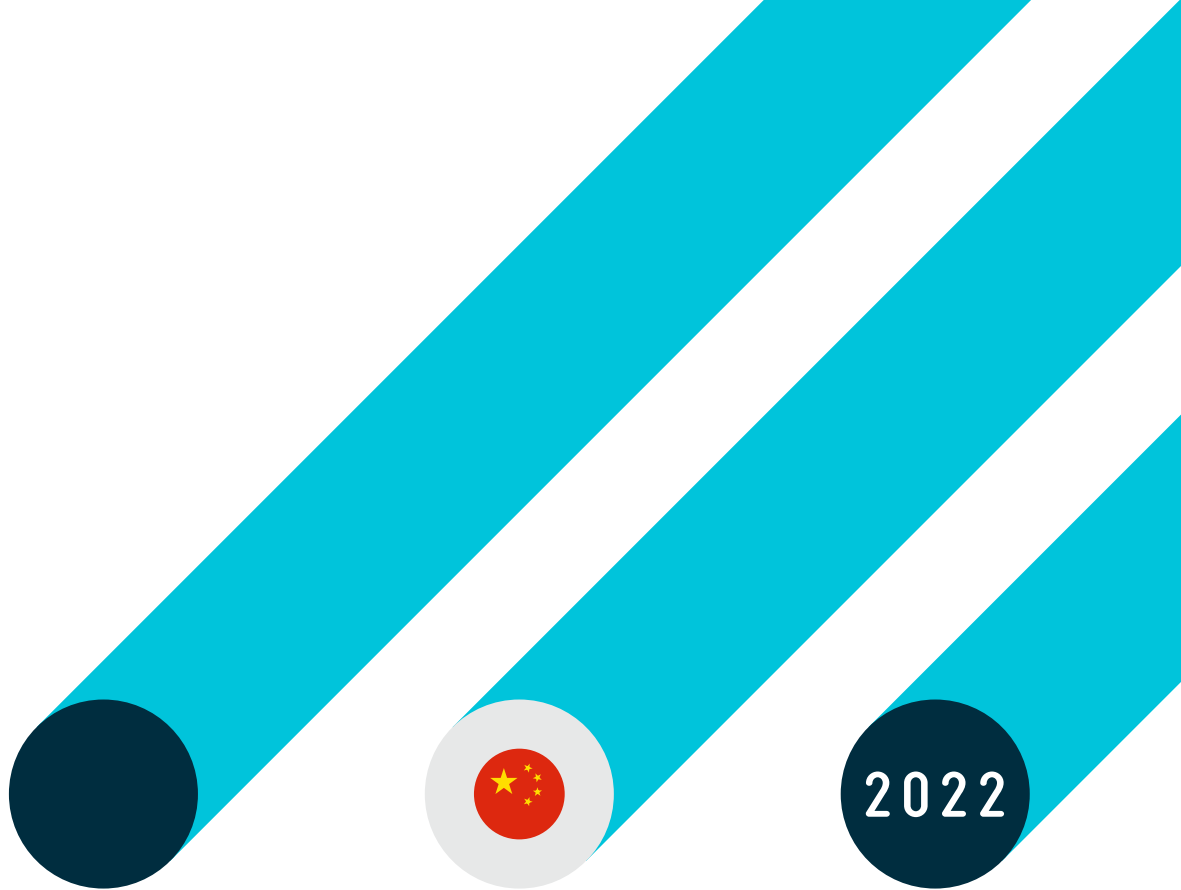
Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for amount of biodiesel in market fuel	CNPE 16 / 2018	No
Environment	Requirement for exhaust location	ABNT NBR 5533:1988 ABNT NBR ISO 612:2006 ABNT NBR 6047:1990 ABNT NBR 6067:2007 ABNT NBR 9500:2010 ABNT NBR 9762:2012	No
Environment	OBD Requirements for heavy duty vehicles	PROCONVE P7 CONAMA 403 / 2008 IBAMA Normative Instruction 04 / 2010 PROCONVE P8 CONAMA 490 / 2018 IBAMA Normative Instruction 20 / 2020	No
Environment	Requirement for OBDBR-D (light-duty vehicles)	IBAMA 05 / 2013	No
Environment	Requirement for OBDBr-2+ (light-duty vehicles)	IBAMA 24 / 2009	No
Environment	Introduction of OBDBr-1 and OBDBr-2 (light-duty vehicles)	CONAMA 354 / 2004	No
Environment	Test procedure EVAP, consumption, emissions (light-duty vehicles)	CONAMA 415 / 2009 ABNT NBR 11481 / 2010	No
Environment	Amendment test fuel, amendment of evaporation (EVAP) test procedure (light-duty vehicles)	CONAMA 415 / 2009 ABNT NBR 11481 / 2010 ABNT NBR 6601 / 2012	No
Environment	Requirement for evaporation (EVAP) (light-duty vehicles)	CONAMA 492 / 2018	No
Environment	Requirement for on-board refueling vapor recovery (ORVR) systems (light-duty vehicles)	CONAMA 492 / 2018	No
Environment	Amendment of Hydrocarbon (HC) evaporation limit value (light-duty vehicles)	CONAMA 415 / 2009	No
Environment	Modification of current external noise requirements	CONAMA 492 / 2018 (light-duty vehicles) CONAMA 490 / 2018 (heavy-duty vehicles)	No
Environment	Requirement for noise emission limits, testing procedure and general requirements	PROCONVE P7 and L6 CONAMA 01 / 1993 CONAMA 272 / 2000 PROCONVE L7 / L8 CONAMA 492 / 2018 CONAMA 01 / 1993 CONAMA 272 / 2000 PROCONVE P8 CONAMA 490 / 2018 CONAMA 01 / 1993 CONAMA 272 / 2000	No

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for vehicle test weight (light-duty vehicles)	ABNT NBR 6601 / 2012	No
Environment	Determination of aldehydes (light-duty vehicles)	ABNT NBR 12026 / 2016	No
Environment	Test method emissions and consumption (light-duty vehicles)	ABNT NBR 16567 / 2016	No
Environment	Requirement for road load resistance (light-duty vehicles)	ABNT NBR 10312:2019	No
Environment	Procedure for determination of road load resistance (light-duty vehicles)	ABNT NBR 10312:2019 INMETRO 015 / 2016	
Environment	Requirement for test procedure fuel consumption (light-duty vehicles)	ABNT NBR 7024:2017	No
Environment	Diesel smoke and power	CONAMA 16 / 1995 CONAMA 226 / 1997 CONAMA 315 / 2002 Arla 32 Requirements HDV: CONAMA Resolution 403 / 2008 (PROCONVE P7) CONAMA Resolution 490 / 2018 (PROCONVE P8)	No
Environment	Specifications for reference test fuel	ANP 764 / 2018	No
Environment	Test method emissions and consumption (light-duty vehicles)	ABNT NBR 16567:2016	No
Environment	Regulation of fuel efficiency (light-duty vehicles)	Port. MDIC 74 / 2015 (Decree 7.819 / 2012)	No
Environment	Requirement for energy label	INMETRO 285 / 2015	No
Environment	Requirements of the energy efficiency labelling program (light-duty vehicles)	INMETRO 549 / 2012 INMETRO 522 / 2013 INMETRO 015 / 2016	No
Environment	Requirement for Electromagnetic Compatibility (EMC)	Portaria 292 / 1985 min. Comunicações CISPR 12	No
Environment	Requirement for emission limits, reference fuel, testing procedure and general requirements – PROCONVE L6 (light-duty vehicles)	CONAMA 415 / 2009	No
Environment	Requirement for emission limits, reference fuel, testing procedure and general requirements – PROCONVE P7	CONAMA 403 / 2008	No
Environment	Requirement for emission limits, reference fuel, testing procedure and general requirements – PROCONVE P8	CONAMA 490 / 2018	No

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Adblue / Arla 32	INMETRO 139 / 2011	No
Mixed	Use of local language	8078 Consumer protection law	
Mixed	General requirements for product certification	INMETRO 16 / 2013 INMETRO 252 / 2015 INMETRO 512 / 2016 INMETRO 282 / 2020	No
Mixed	Certification of automotive components for low volume production	INMETRO 41 / 2018 INMETRO 194 / 2019 INMETRO 472 / 2014	Yes
Mixed	Requirement for masses and dimensions	CONTRAN 210 / 2006 (amended by CONTRAN 326 / 2009 and 284 / 2008) CONTRAN 290 / 2008	No
Mixed	Crash requirements for local production only Complete Knock-Down (CKD) is affected Local production is needed for crash and structural tests	DENATRAN Ordinance 66 / 2014 (amended by 033 / 17)	No
Mixed	Auditing of test laboratories for passive safety Passive tests must be performed with DENATRAN/INMETRO witness. However, tests performed in an accredited laboratory by the accrediting agency, which is signatory of ILAC, exempt this DENATRAN/INMETRO witness.	Port. DENATRAN 190 / 2009 (amended by 124 / 2014, 247 / 12, 631 / 11, 197 / 16, 009 / 18, 1556 / 18 and 346 / 20)	No
Mixed	Requirement for the provision of a suitable location for the installation of a fire extinguisher holder Deletion mandatory equipment with fire extinguisher	CONTRAN 556 / 2015	
Mixed	Requirement for radio-based systems	ANATEL 242 / 2000 (662 / 2016) ANATEL 323 / 2002 ANATEL 715 / 2019	
Mixed	Elimination of the obligation to equip with first aid kits	Decision 9792 (Art 112)	No
Mixed	Requirement for manufacturer's label / service label	Decree 4544-2002 CONAMA 18 / 1986	No
Aftersales	Marking of safety glass	INMETRO 041 / 2018 INMETRO 282 / 2020 (change process for certification)	Yes
	Safety glass Requirement for aftermarket	INMETRO Ordinance No 34 of 02.02.2021	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Tyres Motor vehicles and their trailers	INMETRO 365 / 2015 INMETRO 251 / 2016 CONMETRO 7 / 2009 Res CONTRAN 558 / 80 Res CONTRAN 14 / 98 INMETRO Ordinance 544/12 INMETRO Ordinance No 379 of 14.09.2021	Yes
Aftersales	LPG equipment	INMETRO 330 / 2012	
Aftersales	Replacement catalytic converters (light-duty vehicles)	CONAMA 282 / 2001 INMETRO 547 / 2014 Ordinance No 33 of 15.01.2021	Yes
Aftersales	CNG systems	INMETRO 319 / 2012 INMETRO 330 / 2012 INMETRO 257 / 2002 INMETRO 417 / 2007 INMETRO 233 / 2020	
Aftersales	CNG tank	INMETRO 298 / 2008 INMETRO 171 / 2002	Yes
Safety	Safety system for tipping road vehicles	Contran Resolution No 859/2021	
Safety	Vehicle safety labelling program	Ordinance No 374/2020	
Safety	Dump trucks safety systems	CONTRAN 859/2021	No
Safety	Safety feature tag	DENATRAN 2442/20	No
Technical	Vehicle axles	INMETRO Ordinance 420/2013	
Technical	Bull bars	INMETRO Ordinance 360/2007	
Technical	Mechanical coupling devices	Draft technical regulation (Ordinance) 310, 05.09.2018	
Technical	Brake pads	Port. INMETRO 49/2018	
Technical	Fifth wheel mounted on a mounting plate or directly on the frame of towing vehicles for semi-trailers	INMETRO 454/2019 INMETRO 224/2021	
Technical	Requirements for sugar cane cargo vehicles with GCW between 74t and 91t	CONTRAN 872/2021	No
Environment	National Label for Energy Conservation (ENCE – Etiqueta Nacional de Conservação de Energia)	INMETRO Ordinance No 16 of 07.10.2020	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Break-bush	INMETRO Ordinance No 400, 28 December 2020	
Mixed	Cyber security for communication devices	ANATEL 77/2021	No
Radio	USB ports homologation	ANATEL 3481/2019	Yes
Radio	WiFi 5GHz band usage	ANATEL ATO 4776/2020	Yes
Radio	Radio type approval	ANATEL Resolution 715/2019 of 25.10.2019	
Mixed	Acceptance of UN Regulations of the WP.29 as a useful reference for the preparation and adoption of domestic regulation and conformity assessment procedures on products covered	EU-Mercosur Free Trade Agreement (Annex 2-B Motor vehicles and parts thereof) (signed but not ratified - under legal revision by the Parties)	Yes
Mixed	Collection and final disposal of unserviceable tyres	IBAMA Normative Instruction No 09/2021 CONAMA Resolution No 416/2009	Yes



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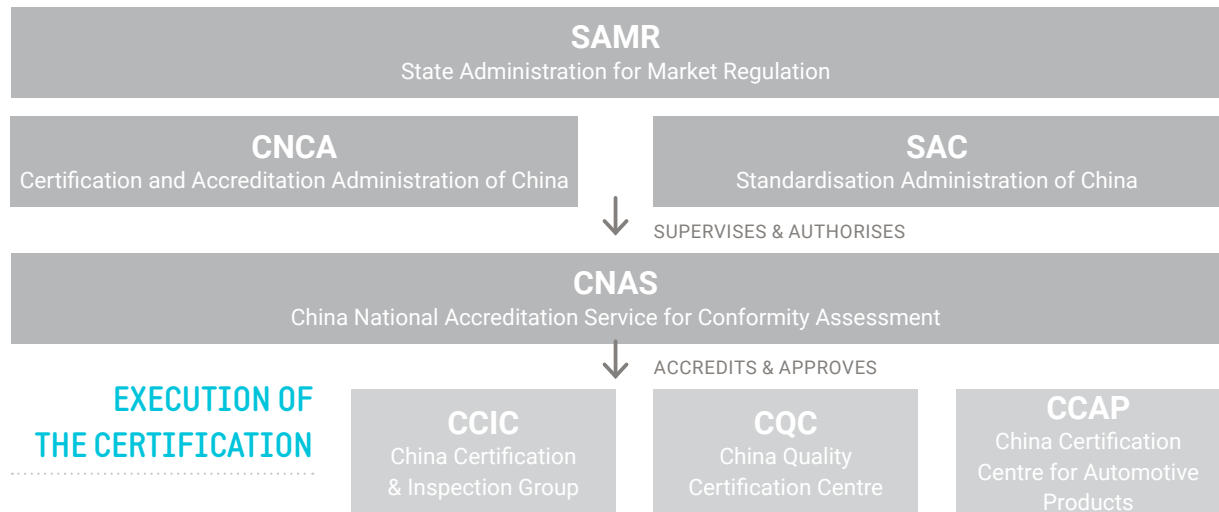
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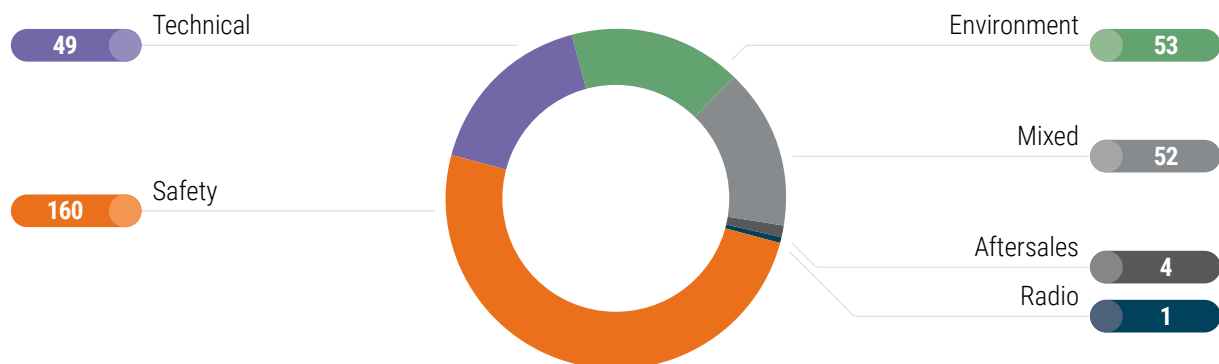
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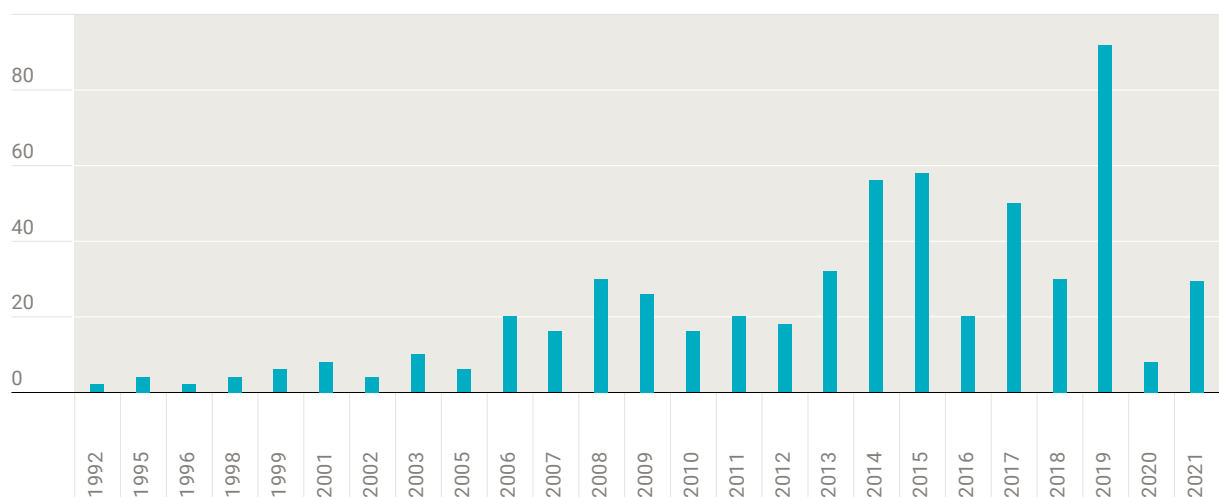
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SOURCE: ACEA



Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Intelligent transport systems (ITS) – Lane Departure Warning Systems (LDWS) – Performance requirements and test procedures	GB/T 26773-2011	No
Safety	Requirement and test methods for Blind Spot Monitoring System (BSD)	GB/T 39265-2020	No
Safety	Requirement for steering system	GB 17675-1999 (valid until 31.12.2021) GB 7258-2017 / XG1-2019	No
Safety	Requirement for barometric pressure brake hoses	GB 7128-2008	
Safety	Requirements for marking and characteristics of brake hoses, brake hose assemblies and fittings	GB 16897-2010	No
Safety	Requirement for passenger car braking systems	GB 21670-2008	No
Safety	Technical standard for tyre testing for passenger car	GB 9743-2015	No
Safety	Technical standard for tyre testing for trucks	GB 9744-2015	No
Safety	Requirement for tyre pressure control system	GB 26149-2017	No
Safety	Requirements for complex Electronic Stability Control systems (ESC)	GB 21670-2008 Annex D	No
Safety	Requirement for driving dynamics	GB/T 30677-2014	No
Safety	Requirement for Advanced Emergency Braking System (AEBS)	GB/T 38186-2019	No
Safety	Requirement for exterior projections	GB 11566-2009	No
Safety	Requirements for lateral and underrun protection for motor vehicles and trailers	GB 11567-2017	No
Safety	Requirement for wheel guards	GB 7063-2011	No
Safety	Requirement for front and rear protective devices (bumper) for passenger cars	GB 17354-1998	No
Safety	Requirement for pedestrian protection head and leg impact Flex-PLI test specification for active front flaps (based on GTR 9)	GB/T 24550-2009	No
Safety	Fuel tank	GB 7258-2017 / XG1-2019	No
Safety	Steel cylinders for the on-board storage of compressed natural gas as a fuel for automotive vehicles	GB 17258-2011 GB/T 17258-2011	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Steel cylinders for the liquefied petroleum gas (LPG) for vehicles	GB 17259-2009 GB/T 17259-2009	No
Safety	Natural gas vehicle (NGV) and liquefied petroleum gas vehicle – Identification marks	GB/T 17676-1999	No
Safety	Requirement for installation of special components of gas vehicles	GB 19239-2013	No
Safety	Requirement for hood latch system	GB 11568-2011	No
Safety	Requirement for symbols for controls, indicators and tell-tales	GB 4094-2016	No
Safety	Requirement for symbols for control elements of electric vehicles	GB/T 4094.2-2017	No
Safety	Requirement for symbols for controls units of electric vehicles	GB/T 4094.2-2017	No
Safety	Safety specifications for electric vehicles: Part 1: On-board rechargeable energy system Part 2: Vehicle operational safety means and protection against failures Part 3: Protection of persons against electric shock	GB/T 18384.1-2015 GB/T 18384.2-2015 GB/T 18384.3-2015 / XG1-2017 GB 18384-2020	
Safety	Anti-theft protection parts marking	GB 7258-2017 / XG1-2019	No
Safety	Requirements for anti-theft device (corresponds approximately to UN R116, Part I, but brakes are not permitted as further alternatives)	GB 15740-2006	No
Safety	Requirement for anti-theft device	GB 20816-2006	No
Safety	Identification for passenger cars and their parts (marking)	GB 30509-2014	No
Safety	Safety devices against unauthorised use	GB/T 25985-2010	
Safety	Requirements for power-operated windows, partition walls and roof systems	GB 11552-2009	No
Safety	Requirement for pedals	GB 7258-2017 / XG1-2019 Chapter 10.1.2, 10.1.3	
Safety	Requirement for door locks and hinges of side doors	GB 15086-2013	
Safety	Requirement for interior fittings	GB 11552-2009	
Safety	Geometric requirements for seats (seat cushion depth / width)	GB 7258-2017 / XG1-2019 Chapter 4.4.2.2 / 4.4.2.3 / 11.6.2	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement to equip with reflective vest	GB 7258-2017 / XG1-2019 Chapter 12.15.2	
Safety	Requirement for reflective vest	GB/T 38046-2019	
Safety	Requirement for occupant protection in the event of a frontal impact	GB 11551-2014	
Safety	Requirements for occupant protection in the event of a side impact	GB 20071-2006	
Safety	Requirements for frontal impact	GB/T 20913-2007	
Safety	Requirement for door crush resistance	GB/T 15743-1995	
Safety	Requirement for fuel system in the event of a rear impact	GB 20072-2006	
Safety	Requirement for driver's protection from the steering system in the event of an impact	GB 11557-2011	
Safety	Requirement for roof crush resistance excluding convertibles	GB 26134-2010	
Safety	Front underrun protective requirements for commercial vehicle	GB 26511-2011	
Safety	The protection of the occupants of the cab of a commercial vehicle	GB 26512-2011	
Safety	Requirement for performance and test methods of windshield demisting and defrosting system	GB 11555-2009	
Safety	Requirement for field of vision	GB 11562-2014	
Safety	Requirement for the use of the model year code and Vehicle Identification Number (VIN)	GB 16735-2019	
Safety	Safety specifications for road transportation vehicle of explosive substance and chemical toxic substance	GB 20300-2018	
Safety	Provisions of vehicles for the carriage of dangerous goods with regard to their specific constructional features	GB 21668-2008	
Safety	Structure requirements of low floor public bus and low entry public bus	GB 19260-2016	
Safety	Safety signs and information symbols for the use of bus	GB 30678-2014	
Safety	Static roll stability test method for motor vehicles	GB/T 14172-2009	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for electric vehicle safety post-crash	GB/T 31498-2015	
Safety	Requirement for performance and test methods of windshield demisting and defrosting systems of electric vehicles	GB/T 24552-2009	
Safety	Vehicle travelling data recorder	GB/T 19056-2012	
Safety	The safety technique specifications of special school buses	GB 24407-2012	
Safety	Safety regulations for road vehicles	GB 7258-2017 / XG1-2019	
Safety	Anti-lock braking performance and test procedure for motor vehicles and their trailers	GB/T 13594-2003	
Safety	Provisions of strength for the superstructure of bus	GB 17578-2013	
Safety	The cab of commercial vehicles – External projections	GB 20182-2013	
Safety	The strength of student seat systems and their anchorages of special school bus	GB 24406-2012	
Safety	Requirements and test methods relating to the spray-suppression systems of motor vehicles and their trailers	GB 34659-2017	
Safety	Lithium-ion batteries for electric road vehicles	GB/Z 18333.1-2001 GB/T 18333.2-2015	
Safety	Zinc-air batteries for electric road vehicle	GB/T 18333.2-2015	
Safety	Electric vehicle conductive charging system – Part 1: General requirements	GB/T 18487.1-2015	
Safety	Electric vehicle conductive charging system – Part 2: Electromagnetic compatibility (EMC) requirements for off-board electric vehicle supply equipment	GB/T 18487.2-2017	
Safety	Electric vehicle conductive charging system Accelerating Current/Direct Current (AC/DC) Electric vehicle charging station	GB/T 18487.3-2001	
Safety	Connection set for conductive charging of electric vehicles Part 1: General Requirement Part 2: AC charging devices Part 3: DC charging devices	GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 20234.3-2015	
Safety	Requirement for Compressed Gaseous Hydrogen (CGH2) tank	GB/T 24549-2009	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Fuel cell electric vehicles – Refueling receptacle	GB/T 26779-2011 GB/T 26779-2021	
Safety	Safety belt reminder for motor vehicles	GB/T 24551-2009	
Safety	Requirement for test methods for on-board hydrogen systems of fuel cell electric vehicles	GB/T 29126-2012	
Safety	Communication protocols between off-board conductive charger and battery management system for electric vehicle	GB/T 27930-2015	
Safety	Safety requirements and test procedures for lithium-ion traction battery pack and system for electric vehicles	GB/T 31467.3-2015, including XG1-2017 [Modification List]	
Safety	The safety requirements for bus construction	GB 13094-2017	No
Safety	Requirement for instrumentation of electric vehicles	GB/T 19836-2019	No
Safety	Electric vehicles traction battery safety requirements	GB 38031-2020 Date of entry into force: 01.01.2021	
Safety	The vehicle mark for road transportation dangerous goods	GB 13392-2005	No
Safety	Speedometer – Requirement for accuracy	GB 15082-2008	
Safety	The license plates (crackets) and its position on motor	GB 15741-1995, GA 36-2018	
Safety	Lifetime tests for traction batteries	GB/T 31484-2015	
Safety	Safety requirements for traction batteries	GB/T 31467.3-2015 GB/T 31485-2015 (both to be superseded on 01.01.2021 by GB 38031-2020)	
Safety	Requirements for performance of traction batteries	GB/T 31486-2015	
Safety	Identification code for traction batteries (Recycling Admin Rule)	GB/T 34014-2017	
Safety	Requirement for interoperability testing for conductive charging of electric vehicles Part 2: Vehicles	GB/T 34657.2-2017	
Safety	Requirement for conformity testing of DC charging communication protocol	GB/T 34658-2017	
Safety	Requirement for Acoustic Vehicle Alerting System (AVAS)	GB/T 37153-2018	
Safety	Ultra-capacitor for electric vehicles (including Amendment List 2017XG1)	QC/T 741-2014	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Lead-acid batteries for electric vehicles	QC/T 742-2006	
Safety	Ultra-capacitor for electric urban bus	QC/T 838-2010	
Safety	Flammability of interior materials for buses	GB 38262-2019	
Safety	Specifications for extinguishing equipment arrangement in bus	GB 34655-2017	
Safety	Emergency shut-off valve of road tanker for dangerous liquid goods transportation (including 2019XG)	QC/T 932-2018	
Safety	The marker for school bus	GB 24315-2009	
Safety	Fixed fire extinguishing systems for compartment of bus	GA 1264-2015 (mandated in GB 7258)	
Safety	Safety rules for aerial work machinery (cranes)	JG 5099-1998	
Safety	Technical specifications for safety of power-driven vehicles operating on roads	GB 7258-2017, including 2019XG1]	
Safety	Methods and requirements of airbag system abuse test for automobile	GB/T 37474-2019	
Safety	Assembly of motor vehicle electric sunroof	GB/T 30037-2013	
Safety	Roof load carriers for road vehicles	QC/T 948-2013	
Safety	Nickel-metal hydrid batteries for electric vehicles	QC/T 744-2006	
Safety	Frontal airbag – Technical requirements of protection for out of position occupant	GB/T 37437-2019	
Safety	Electronic locks system for motor vehicles	QC/T 627-2013	
Safety	Protection of the occupants in the event of a lateral pole collision	GB/T 37337-2019	
Safety	Performance requirements of side airbag and curtain airbag module	GB/T 38795-2020	
Safety	Specification of special police vehicle unified appearance coating	GA 923-2011	
Safety	Fire fighting vehicles Part 1: General Technical Specifications	GB 7956.1	
Safety	Cranes – Safety signs and hazard pictorials – General principles	JG 15052-2010	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Motorcycle: graphics; signs for controls, indicators and signaling devices	GB 15365-2008	
Safety	Safety requirements for sleeper bus construction	GB/T 16887-2008	
Safety	Rear view mirror performance and its installation requirements for motorcycles and mopeds	GB 17352-2010	
Safety	Provisions for installation of lighting and light signalling devices for motorcycles (parts 1 to 3)	GB 18100-2010	
Safety	Safety requirements for tractors	GB 18447.1-2001	
Safety	Road tanker for dangerous liquid goods transportation (parts 1 and 2)	GB 18564.1-2019	
Safety	Motor vehicle headlamps emitting a symmetrical passing beam or driving beam or both	GB 19152-2016	
Safety	Technical specification for car carriers	GB/T 26774-2011	
Safety	Fuel cell electric vehicles – On-board hydrogen system – Specifications	GB /T 26990-2011	
Safety	All terrain crane	GB 27996-2011	
Safety	Static roll stability	GB 28373-2012	
Safety	Road vehicles – Drawbar couplings, drawbar eyes, 5th wheel kingpins, hook couplings and toroidal eyes – Wear limits for in use mechanical couplings	GB/T 31883-2015	
Safety	Performance requirements and measurement methods for anti-splash systems for automobiles and trailers	GB 34659-2017	
Safety	Safety technical conditions for oil transportation vehicles and refuelling vehicles	GB 36220-2018	
Safety	Electric buses – Safety requirements	GB 38032-2020	
Safety	Performance requirement and test method for Lane Keeping Assistance (LKA) system of passenger cars	GB/T 39323-2020	
Safety	Power battery energy density (MIIT catalogue)	CVTSC No 2(2017)	
Safety	BEV– Engineering approval evaluation program	GB/T 18388-2005	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	HEV-Engineering approval evaluation program	GB/T 19750-2005	
Safety	BEV Power performance test method	GB/T 18385-2005	
Safety	HEV Power performance test method	GB/T 19752-2005	
Safety	Hazardous substance recyclability and recoverability rate (MIIT catalogue)	MIIT [2015] No 38 Bulletin	
Safety	Event Data Recorder (EDR)	GB 39732-2020	
Safety	Determination of platinum, palladium and rhodium loading in the vehicle-used ceramic catalytic converters inductive coupled plasma-mass spectrometry (MEE catalogue)	HJ 509-2009	

Item	Subject	Regulatory Act	Applicability to spare parts
CHINA COMPULSORY CERTIFICATE (CCC) REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29			
Safety	Requirements for the CCC certification of tyres and tyre products (Implementation rules)	GB/T2978-2014 GB 9743-2015 CNCA-C12-01:2015	Yes
Safety	Requirement for locks and hinges for side doors	GB 15086 -2013 CNCA-C11-10:2014 (abolished) (excluded from CCC certification per CNCA Announcement No 44)	Yes
Safety	Requirement for locks and hinges for rear doors / flaps	GB 15086 CNCA-C11-10:2014 (abolished) (excluded from CCC certification per CNCA Announcement No 44)	Yes
Safety	Requirement for CCC certification of seats and head restraints	GB 15083-2019 GB 11550-2009 GB 13057-2014 GB 8410-2006 CNCA-C11-12:2014 (Self-Declaration per CNCA Announcement No 44)	Yes
Safety	Requirement for CCC certification of safety belts	GB 14166-2013 CNCA-C11-04:2014 (Self-Declaration per CNCA Announcement No 44)	Yes
Safety	Requirement for safety belts – airbag warning label, belt warning system incl Explanation Handbook (GB 7258-2017 is superior vehicle safety standard)	GB 7258-2017 / XG1-2019 GB 14166-2013 GB 8410-2006	Yes
Safety	Requirement for CCC certification flammability of automotive interior materials	GB 8410-2006 CNCA-C11-09:2014 (abolished) (excluded from CCC certification per CNCA Announcement No 44)	Yes
Safety	Requirements for CCC certification of brake linings	GB 5763-2018 CNCA-C11-20:2020	Yes
Safety	Requirements for the certification of anti-theft alarm systems	GB 20816-2006 CNCA-C19-01:2014 (excluded from CCC certification per CNCA Announcement No 11)	Yes
Safety	Requirement for brake hoses	GB 16897-2010 CNCA-C11-06:2014 (excluded from CCC certification per CNCA Announcement No 11)	Yes
Safety	Requirement for safety and test methods for fuel tanks and their installation	GB 18296-2019 CNCA-C11-11:2014 (excluded from CCC certification per CNCA Announcement No 11)	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
CHINA COMPULSORY CERTIFICATE (CCC) REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29			
Safety	Requirement for horn components	GB 15742-2019 CNCA-C11-05:2014 (excluded from CCC certification per CNCA Announcement No 11)	Yes
Safety	Mandatory installation of an event data recorder	GB 7258-2017 / XG1-2019	Yes
Safety	Restraining devices for child occupants	GB 27887-2011 / XG1-2019 CNCA-C22-03:2014	Yes
Safety	Requirement for child seat anchorages and ISOFIX child restraint systems	GB 14166-2013 GB 14167-2013	Yes
Safety	Requirement for CCC certification rear-view mirrors	GB 15084-2013 CNCA-C11-08:2014 (Self-Declaration per CNCA Announcement No 44)	Yes
Safety	Requirement for the performance and installation of devices for indirect vision	GB 15084-2013	Yes
Safety	Requirements for CCC certification and type approval of safety glass	GB 9656-2003 CNCA-04C-028:2006 CNCA-C13-01:2014 (Self-Declaration per CNCA Announcement No 44)	Yes
Safety	Helmets for motorcyclists	GB 811-2010	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirements for rescue card for electrified vehicles	GB/T 38117-2019	No
Technical	Requirements for fanfare	GB 7258-2017 / XG1-2019 Chapter 8.6.1	
Technical	Requirement for warning triangle for motor vehicle	GB 19151-2003 GB 7258	
Technical	Terminology of electric vehicles	GB/T 19596-2017	No
Technical	Headlamp cleaner	GB 21260-2007	
Technical	Urban requirement for real-time monitoring of electric vehicles	SH No 73 DB31 / T 634-2012	
Technical	National real-time data monitoring of locally produced electric vehicles – backend connection to national server (BIT)	GB/T 32960.1-2016 GB/T 32960.2-2016 GB/T 32960.3-2016	
Technical	Requirement for engine marking	GB 7258-2017 / XG1-2019	
Technical	Requirements for Certificate of Compliance (COC) data Implementation rule on compulsory certification of motor vehicles	CQC-C1101-2018	
Technical	Exemption from Chinese VAT	No 53 Bulletin of NEV	
Technical	National subsidy requirements	MOF - CAI JIAN [2015] No 134	
Technical	Angle of inclination of the rear registration plate	GB 15941-1995	
Technical	Requirement for towing devices	GB 32087-2015	
Technical	Specification for septic tank cleaning service	GB 36220-2018	
Technical	Hoop-wrapped composite cylinders with steel liner for the on-board storage of compressed natural gas as a fuel for automotive vehicles	GB/T 24160-2009	
Technical	Requirement for speed limiter	GB 24545-2019 GB 7258	
Technical	Fully-wrapped carbon fiber reinforced cylinders with an aluminum liner for the on-board storage of compressed hydrogen as a fuel for land vehicles	GB/T 35544-2017	
Technical	Installation and operation technical requirements of tail lifts for vehicle	GB/T 37706-2019	
Technical	Requirement for Electronic Toll Collection device (ETC)	GB/T 38444-2019 (to be valid as of 01.07.2020)	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirement for masses regarding the distribution on the axles	GB 1589-2016 MIIT No 50 Bulletin	
Technical	Automobile air-to-air charge air cooler technical specification	QC/T 828-2010	
Technical	Lamps for road vehicles – Dimensional, electrical and luminous requirements	GB 15766.1-2008	
Technical	Filament lamps, performance requirements	GB 15766.2-2016	
Technical	Filament lamps – lamps for supplementary purposes	GB 15766.3-2007	
Technical	Technology standards for auto dimming rear-view mirror	QC/T 947 -2013	
Technical	Lighting and signaling devices – Environmental endurance	GB/T 10485-2007	

Item	Subject	Regulatory Act	Applicability to spare parts
CCC REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29 Implementing Regulation CNCA-C11-01:2014 CNCA-C11-01:2020 and Standards Mandated for CCC by GB 7258			
Technical	Requirement for windscreen	GB 7258-2017 / XG1-2019 (Chapter 11.9)	Yes
Technical	Deletion CCC certificate rear retro reflector	GB 11564 CNCA-C11-07:2014 (excluded from CCC certification per CNCA Announcement No 29)	Yes
Technical	Requirements for CCC certification of exterior lighting and light-signaling device	CNCA-02C-058:2005 (Self-Declaration per CNCA Announcement No 44)	Yes
	Requirement for lighting equipment	GB 7258-2017 / XG1-2019 (Chapter 8.3)	Yes
	Requirements for photometric characteristics of halogen headlamps (driving beam, passing beam)	GB 4599-2007 CNCA-C11-20:2020 & GB 7258 (Self-Declaration) CNCA-C11-07:2014 CQC-C1107-2014	Yes
	Requirements for the photometric performance of front fog lamps	GB 4660-2016 CNCA-C11-20:2020 (Self-Declaration) CNCA-C11-07:2014 CQC-C1107-2014 (class B approvals not permitted as of 01.01.2022)	Yes
	Requirements for high beam headlamps – Amendment 2	GB 4785-2019	Yes
	Requirements for the installation of lighting and light-signalling devices	GB 4785-2019 CNCA-C11-20:2020 and GB 7258 (Compliance with 2009 and 2019 allowed for CCC)	Yes
	Requirements for photometric characteristics of front and rear position lamps, end-outline marker lamps and stop lamps for motor vehicles and their trailers	GB 5920-2019 CNCA-C11-20:2020 and GB 7258 (Self-Declaration) CNCA-C11-07:2014 CQC-C1107-2014	Yes
	Requirements for photometric characteristics of rear fog lamp for power-driven vehicles and their trailers	GB 11554-2008 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
CCC REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29 Implementing Regulation CNCA-C11-01:2014 CNCA-C11-01:2020 and Standards Mandated for CCC by GB 7258			
Technical	Requirement for photometric characteristics of turning lights	GB/T 30511-2014 CNCA-C11-01:2020 and GB 7258 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirements for photometric characteristics of daytime running lights for power driven vehicles	GB 23255-2019 CNCA-C11-20:2020 Self DoC (Compliance with 2009 and 2019 allowed for CCC)	Yes
Technical	Requirement for wiper motor	QC/T 29090-1992 QC/T 44-2009 CQC 16-461111-20101-2010 (excluded from CCC certification per CNCA Announcement No 11)	Yes
	Requirement for windshield wipers and washer systems	GB 15085-2013 CNCA-V01-033:2003 (excluded from CCC-Certification per CNCA Announcement No 11)	Yes
	Requirement for windshield washer	GB 15085-2013 CNCA-V01-034:2003 (excluded from CCC certification per CNCA Announcement No 11)	Yes
Technical	Requirements for photometric characteristics of retro-reflector device for motor vehicles	GB 11564-2008 CNCA-C11-01:2020 (Retro reflectors combined with other lamps must use Self DoC for Compliance) CNCA-C11-07:2014 CQC-C1107-2014 CQC16-491286-2018 CCAP-GZ-4135-2018	Yes
Technical	Retro-reflective markings for trucks and trailers	GB 23254-2009 CNCA-C11-01:2020	Yes
Technical	Requirements for photometric characteristics of reversing lamps for power-driven vehicles	GB 15235-2007 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirements for photometric performance of direction indicator lamps for motor vehicles and their trailers	GB 17509-2008 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
CCC REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29 Implementing Regulation CNCA-C11-01:2014 CNCA-C11-01:2020 and Standards Mandated for CCC by GB 7258			
Technical	Requirements for photometric characteristics of illumination of rear registration plates of motor vehicles and their trailers	GB 18408-2015 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirements for the photometric characteristics of parking lamps for power-driven vehicles	GB 18409-2013 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirements for photometric characteristics of side marker lamps for motor vehicles and their trailers	GB 18099-2013 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirements for photometric performance of headlamps equipped with gas-discharge light sources (driving beam / dipped beam)	GB 21259-2007 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Rear-marking plates for vehicles and their trailers	GB 25990-2010 CNCA-C11-01:2020	Yes
Technical	Requirements for headlamps with LED light sources / modules (main beam / dipped beam)	GB 25991-2010 CNCA-C11-01:2020 and GB 7258 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes
Technical	Requirement for adaptive front-lighting system	GB/T 30036-2013 CNCA-C11-01:2020 Component – Self DoC required CNCA-C11-07:2014 CQC-C1107-2014	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Limits of fuel consumption for light-duty commercial vehicles	GB 20997-2015	
Environment	Fuel consumption limits for heavy-duty commercial vehicles	GB 30510-2018	
Environment	Limits and measurement methods for emissions from light-duty vehicles (CHINA 6)	GB 18352.6-2016	
Environment	Limits and measurement methods for emissions from diesel-fuelled heavy-duty vehicles (China VI)	GB 17691-2018	
Environment	Technical requirements and methods for emission determination of Plug-in Hybrid Electric Vehicles (PHEV)	GB 19755-2016	
Environment	Requirement for New Engine Vehicle (NEV)	GB 27999-2019	
Environment	Mandatory requirement for Vehicle Identification Number (VIN) specific sheet (emission-relevant components)	MIIT Announcement No 3	
Environment	Requirement for diesel exhaust emissions (smoke) (Removed from CCC rules in CNCA-C11-01-2020)	GB 3847-2018	
Environment	Requirement for interior air quality	GB 27630-2011	
Environment	Requirement for the position of the exhaust pipe	GB 7258-2017 / XG1-2019 (Chapter 12.15.7)	
Environment	Requirement for test methods of energy consumption	GB/T 18386-2017	
Environment	Requirement for electric motor and electronics (test requirements + label)	GB/T 18488.1-2015 GB/T 18488.2-2015	
Environment	Review of activated carbon filter	HJ / T 390-2007	
Environment	External noise requirements level 3 and level 4 – Accelerated pass-by and stationary noise	GB 1495-2002	
Environment	Requirements for exterior noise (stationary noise)	GB 16170-1996	
Environment	Requirement for measurement of stationary noise	GB/T 14365-2017	
Environment	Requirement for interior noise	GB/T 18697-2002 GB 7258	
Environment	Requirement for acoustic warning devices of motor vehicles	GB 7258-2017 / XG1-2019	
Environment	Requirement for obligation to equip with audible warning device	GB/T 28382-2012	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for NEV	Development plan NEV (2012-2020)	
Environment	Energy consumption label: Part 1: gasoline and diesel vehicles Part 2: plug-in hybrid and electric vehicles	GB 22757.1-2017 GB 22757.2-2017	
Environment	Requirement for fuel consumption / CO2	GB 27999-2019 (Compliance with 2014 or 2019 rules allowed for CCC) GB 19578-2014 GB 19578-2021	
Environment	Test method for light-duty vehicle fuel consumption	GB/T 19233-2008 (to be superseded on 01.01.2021 by GB/T 19233-2020)	
Environment	Test methods for energy consumption of light-duty hybrid electric vehicles	GB/T 19753-2013 GB/T 19753-2021	
Environment	Test methods for energy consumption of heavy-duty hybrid electric vehicles	GB/T 19754-2015	
Environment	Fuel consumption test methods for heavy-duty commercial vehicles	GB/T 27840-2011 GB/T 27840-2021	
Environment	Requirement for fuel consumption limits	GB/T 36980-2018	
Environment	Requirement for test procedures for energy consumption and range	GB/T 18386-2017 GB/T 18386.1-2021	
Environment	Measurement methods of net power for automotive engines	GB/T 17692-1999	
Environment	Requirements for the protection of on-board receivers – EMC	GB/T 18655-2018	No
Environment	Requirements for information on air conditioning systems in approval documents	CNCA-02C-023:2008	
Environment	Requirements for limits and measurement methods for emissions of gasoline vehicles	GB 18285-2018 (removed from CCC rules in CN-CA-C11-01:2020)	
Environment	Requirements for the use of prohibited hazardous substances on automobiles	GB/T 30512-2014 CNCA-C11-001:2014	
Environment	Road vehicles. Recyclability and recoverability. Calculation method	GB/T 19515-2015	
Environment	Requirements for the minimum sound pressure level and test methods of horn for motor vehicles	GB 15742-2019 CNCA-C11-01:2020 (Horns are exempt from component CCC but suppliers should apply for voluntary certification from CCAP or CQC). CNCA-C11-05:2014 CCAP-SB-3721-2018 CQC16-491283-2018	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirements and test methods for Electromagnetic Compatibility (EMC)	GB 34660-2017	
Environment	Requirements for radio interference / electromagnetic compatibility	GB/T 17619-1998	
Environment	Requirements for performance and measurement methods for broadband emissions from electric vehicles (9kHz to 30MHz)	GB/T 18387-2017	
Environment	Requirements for performance and measurement methods for broadband emissions from electric vehicles (150kHz to 30MHz)	GB/T 18387-2017	
Environment	Requirements for the protection of on-board receivers – EMC	GB/T 18655-2018	
Environment	EMC requirements of drive motor system for electric vehicles	GB/T 36282-2018	
Environment	Limits and measurement methods for crankcase pollutants from heavy-duty vehicles equipped with P.I. engines	GB 11340-2005	
Environment	Vehicles, boats and internal combustion engine – Radio disturbance characteristics	GB 14023-2011	
Environment	Limits and measurement methods for exhaust pollutants from gasoline engines of heavy-duty vehicles	GB 14762-2008	
Environment	Measurement of fuel evaporative pollutants from vehicle with petrol engine	GB 14763-2005	
Environment	Test procedures and requirement of durability of emission control systems for heavy-duty vehicles	GB 20890-2007	
Environment	The coding rule of the unified social credit identifier for legal entities and other organisations	GB 27999-2019	
Environment	Technical specification for On-Board Diagnostic (OBD) system of compression ignition and gas fuelled positive ignition engines of vehicles	HJ 437-2008	
Environment	Durability of emission control systems of compression ignition and gas fuelled positive ignition engines of vehicles	HJ 438-2008	
Environment	Technical requirements and testing methods for commercial vehicle and trailer braking systems	GB 12676-2014	
Environment	Ethanol 10% fuel	GB 18351-2015	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Passenger vehicle air conditioning	QC-T 945-2013	
Environment	Road vehicles – Environmental conditions and testing for electrical and electronic equipment, parts 1-5	GB/T 28046-2013	
Mixed	Classification of power-driven vehicles and trailers	GB/T 15089-2001	
Mixed	Specification of PHEV passenger car	GB/T 32694-2016 GB/T 32694-2021	
Mixed	Motor vehicles and trailers – types, terms and definitions	GB/T 3730.1-2001	
Mixed	Motor vehicles and trailers – Terms and conditions	GB/T 3720.1-2001	
Mixed	Road vehicles – Masses – Vocabulary and codes	GB/T 3730.2-1996	
Mixed	Requirements for the type approval of locally produced vehicles	MIIT / EIDC / CVTSC	
Mixed	Classification and code of passenger cars (CN CBU)	QC/T 775-2007	
Mixed	Requirement for vehicle-trailer combination	GB 7258-2017 / XG1-2019	
Mixed	Display error of the speedometer	GB 7258-2017 / XG1-2019	
Mixed	Requirement for information signs and Vehicle Identification Number (VIN)	GB 7258-2017 / XG1-2019 Chapter 4.1.3	
Mixed	Requirement for World Manufacturer Identifier (WMI) Code	GB 16737-2019	
Mixed	Requirement for the assembly of registration plates	GB 7258-2017 / XG1-2019	
Mixed	Requirement for High Voltage (HV) systems	GB 7258-2017 / XG1-2019 Chapter 12.13.3, 12.13.6, 12.13.7	
Mixed	Requirement for lead-acid battery for electric vehicles	GB/T 32620.1-2016	
Mixed	Requirement for battery-operated vehicles	GB/T 28382-2012	
Mixed	Tolerance limits for high-voltage memory and delimiting characteristics	GB/T 31467.1-2015 GB/T 31467.2-2015 GB/T 31467.3-2015 / XG1-2017	
Mixed	Cell and module tests high-voltage memory	GB/T 31486-2015	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Requirement for Battery Management System (BMS) for electric vehicles	QC/T 897-2011 GB/T 38661-2020 (valid from 01.10.2020)	
Mixed	Traceability and recycling high-voltage storage modules / cells	Administrative regulation	
Mixed	Administrative regulation – Traceability and recycling of traction battery for New Energy Vehicles (NEVs)	GB/T 38698.1-2020	
Mixed	Specifications for shift logic and error display in automatic transmissions	GB 7258-2017 / XG1-2019 (Chapter 10.2)	
Mixed	Requirement for the tank opening of fuel cell electric vehicles	GB/T 34425-2017	
Mixed	Requirement for type plate	GB/T 18411-2018 GB 7258-2017 / XG1-2019 (Chapter 4.1.2)	
Mixed	Requirements for information signs (forgery protection, authenticity, watermarking, self-destruction)	GB/T 25978-2018	
Mixed	Technical requirements for battery vehicles	GB/T 28382-2012	
Mixed	Requirement for distribution of masses for Battery Electric Vehicles (BEVs)	GB/T 28382-2012	
Mixed	Requirement for first aid kit	State Council Decree No 276	
Mixed	Passenger cars – Mass distribution	GB/T 5910-1998	
Mixed	Road vehicles plate and label	GB/T 25978-2018	
Mixed	Measurement of maximum speed of motor vehicle	GB/T 12544-2012	
Mixed	Coupling balls for caravans and light trailers	GB/T 25980-2010	
Mixed	Road vehicles – Electrical and electronic equipment for supply of voltage of 42V – Electrical loads	GB/T 28045-2011	
Mixed	Dimension of traction battery for electric vehicles	GB/T 34013-2017	
Mixed	Strength requirement and test of automobile safety	QC/T 946-2013	
Mixed	The DC/DC converter for electric vehicles	GB/T 24347-2009	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Types of hybrid vehicles	QC/T 837-2010	
Mixed	Electric vehicle conductive charge coupler	QC/T 841-2010	
Mixed	On-board conductive charger for electric vehicles	QC/T 895-2011	
Mixed	Marks for recoverability of automobile parts	GB/T 26988-2011	
Mixed	Standard voltages	GB/T 156-2017	
Mixed	Items and methods for safety technology inspection of motor	GB 39000-2020 Superseding GB 21861-2014	
Mixed	Requirement for picture catalog	CNCA 2008	
Mixed	Test method for vehicle running deviation	GB 38679-2020	
Aftersales	CNCA interpretation of parts marking of motor vehicles	CNCA 02C-023:2008	Yes
Aftersales	CNCA supplement for small volume imports	CNCA 2008 Announcement No 38	Yes
Aftersales	Liability for repair, replacement and return of private automobile products (so called 3R)	Provisions of the Liability for Repair, Replacement and Return of Private Automobile Products No 43 Order released by the State Administration for Market Regulation on 22.07.2021	

Item	Subject	Regulatory Act	Applicability to spare parts
CCC REGULATIONS Announcement on reform and adjustment of the CCC catalogue and implementation method: CNCA 2018 Announcement No 11, CNCA 2018 Announcement No 29 Implementing Regulation CNCA-C11-01:2014 CNCA-C11-01:2020 & Standards Mandated for CCC by GB 7258			
Mixed	CCC certification for fire extinguisher	CNCA-C18-03:2014	Yes
Mixed	Requirement for replacement of CCC certificates by self-declarations	CNCA 2019 Announcement No 44	Yes
Mixed	Requirement for parts marking of type approval relevant parts	GB/T 3730.1-2001 GB/T 17350-2009 GB 7258-2017 / XG1-2019 GB/T 15089-2001 CNCA-C11-01:2014	Yes
Mixed	Plastics – determination of burning behaviour of horizontal and vertical specimens	GB/T 2408 2008 CNCA-C11-01:2020 GB 7258	
Mixed	Fuel cell electric vehicles – Safety requirements	GB/T 24549 2009 CNCA-C11-01:2020	
Mixed	Color standard for paint film	GB/T 3181 2008 CNCA-C11-01:2014 GB 7258	
Aftersales	Adaption of regulations for CCC approval – Selection of test institutes and test labs for CCC certification	CNCA 2017 Announcement No 13	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Safety technical specification for glazing materials used in power-driven vehicles	GB 9656—2021 G/TBT/N/CHN/1491	Yes
Safety	Automobiles and trailer-specifications and test methods of brake parts	G/TBT/N/CHN/1495	
Safety	Steering system of motor vehicles—basic requirements	GB 17675-2021 (valid from 01.01.2022) G/TBT/N/CHN/1496	
Safety	Connected vehicles	Notice on strengthening the network security of the Internet of vehicles (Intelligent Connected Vehicles)	
Safety	Off-cycle technology device energy saving effects evaluation methods for passenger cars	GB/T 40711—2021	
Technical	Safety technical specification for glazing materials used in power-driven vehicles	GB 9656-2021	
Technical	Safety requirements of battery swap for electric vehicles	GB/T 40032-2021	
Technical	Safety technical requirements and test methods for towing vehicles and trailers (applicable to N2 and N3 towing vehicles, O3 and O4 trailers and their combination vehicles).	Transportation Industry Standard of PRC, Safety specification for commercial vehicle for cargos transportation-Part 2: Towing vehicle and trailers (JT/T1178.2) G/TBT/N/CHN/1577	
Technical	Post crash safety requirement for electric vehicle	GB/T 31498-2021	
Technical	The reliability test methods of drive motor system for electric vehicles	GB/T 29307-XXXX	
Technical	Bench test methods of static roll stability for motor vehicles	GB/T 14172-2021	
Radio	Automotive radars	Notice on Issuing the Interim Provisions on the Management of Automotive Radar Radio (Ministry of Industry and Information Technology) No 181 [2021]	
Mixed	Fuel cell electric vehicle engineering approval evaluation program	GB/T 39132-2020	
Mixed	Vehicle recalls due to emissions	Regulations on the management of motor vehicle emissions recalls	
Mixed	Rules on Repair, Replacement and Return (3Rs) of vehicles and automotive products	Regulations on responsibilities for Repair, Replacement and Return of household auto products (Promulgated by Order No 43 of the State Administration for Market Regulation on 22.07.2021)	



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MINISTRY AND REGULATORY AUTHORITIES

Motor Vehicles Act, 1988 ; Central Motor Vehicles Rules, 1989; AIS Automotive Industry Standards

MoRTH

Ministry of Road Transport & Highways

APEX ORGANIZATION UNDER THE CENTRAL
GOVERNMENT ENTRUSTED WITH TASK OF
FORMULATION & IMPLEMENTATION

In order to involve all stake holders in regulation formulation, MoRTH has constituted three committees to deliberate and advise the ministry on issues related to safety and emission regulations, namely :

- CMVR- Technical Standing Committee (CMVR-TSC)
- Standing Committee on Implementation of Emission Legislation (SCOE)
- Automotive Industry Standards Committee (AISC)

IS Indian Standards

BIS

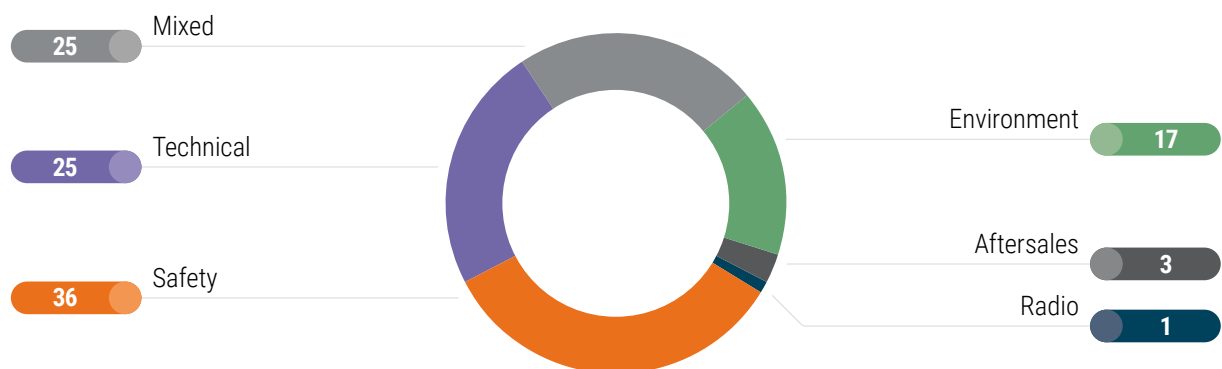
Bureau of Indian standards

Transport Engineering Department (TED)

National Standard Body of India established under the BIS Act 2016 for the harmonious development of the activities of standardization, marking and quality certification of goods

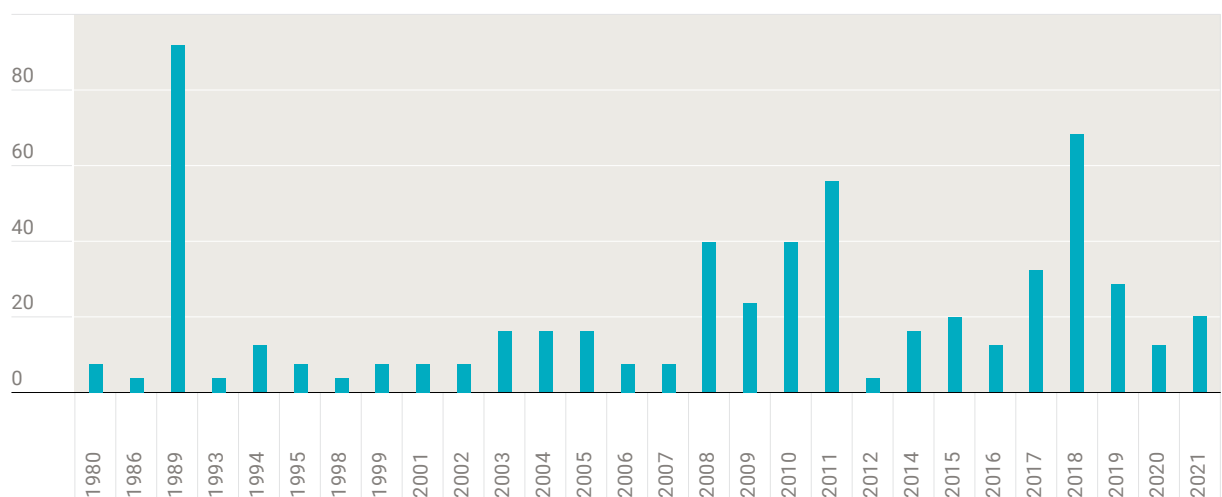
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YEARLY ISSUANCE OF NEW AND AMENDED REGULATIONS

SOURCE: ACEA



Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for steering effort	IS-11948:2010 CMVR 1989 Chapter V Rule 98 IS-12222:2011 CMVR 1989 Chapter V Rule 98 GSR 1463 (E), Dt: 27th Nov 2017	No
Safety	Requirement for brakes & mandatory fitment of ABS	CMVR 96; Sub rules 1,2,3,4,5,6,7(a) IS:15986-2015 GSR 173 (E), Dt. 01.03.2019	
Safety	Requirement for Electronic Stability Control (ESC) system (if fitted)	AIS 133:2016 GSR 173 (E), Dt. 01.03.2019	
Safety	Requirement for Brake Assist System (BAS) (if fitted)	AIS 152:2018 GSR 173 (E), Dt. 01.03.2019	
Safety	Requirement for brake hoses	IS-7079:2008 (Rev.03) Amd No 01	No
Safety	Requirement for brake fluid	IS-8654:1986	No
Safety	Requirement for Emergency Wheel / Run-flat / TPMS / Run-flat Warning	AIS-110:2009 Amd No 1, 2, 3 GSR 625 (E), Dt. 08.08.2012	No
Safety	Requirement for tyres (PC, M1, M1G)	IS-15633:2005 Amd No 1 Import Licensing requirement as per DGFT Notification No 12 / 2015-2020 AIS-051:2004	Yes
Safety	Requirement for condition of tyres	CMVR 1989 Chapter V Rule No 94 (1), (2), (3)	No
Aftersales	Tyres	Pneumatic tyres and tubes for automotive vehicles (quality control) Order, 2009	Yes
Safety	Performance requirements for wheel rims (incl. BIS Certification and ISI Marking)	IS-9436:2018 (for passenger cars) IS-9438:2018 (for trucks and buses) Automobile Wheel Rim Component (quality control) second Amendment Order, 2021-S.O. 4493 (E) dated 22.11.2021 (implementation date to 21.09.2022)	Yes
Safety	Requirement for exterior projections	AIS-120:2014 Amd No 1	No
Safety	Requirement for wheel guards	IS-13941:1994 IS-13943:1994	No
Safety	Requirement for wheel nut and wheel guards	IS-13941:1994	No
Safety	Requirement for bumper	IS-15901:2010	No
Safety	Tests for head impact, lower leg to bumper and upper leg to bumper (maximum weight allowed < 2.5t based on GTR 9)	AIS-100:2010 Amd No 1 and 2	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for fuel tank (plastic)	IS-15547:2005	No
	Requirement for fuel tank (metal)	AIS-095:2007 Amd. No 1 S.O 6108, Dt: 10th Dec 2018	No
Safety	Test methods for front flap closure system	IS-14226:1995	No
Safety	Requirement for controls, indicator lights and displays	AIS-071 (Part 1) (Rev.1) AIS-071 (Part 2):2009 Amd. No 1 and 2	No
Safety	Protection against unauthorised use	AIS-075:2006 Amd No 1 and 2	No
Safety	Requirement for anti-theft alarm system	AIS-076:2007 Amd No 1 and 2	No
Safety	Deactivation of child lock for commercially used vehicles	AIS-145:2018 Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017	No
Safety	Requirement for manual override for central locking system	AIS-145:2018 Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017	No
Safety	Requirement for interior fittings	IS-15223:2002	No
Safety	Requirement for seats and seat anchorages	IS-15546:2005	No
Safety	Requirement for seat belt anchorages	IS-15139:2002	No
Safety	Requirement for restraint systems	IS-15140:2003 Amd No 1	No
Safety	Requirements for safety belts	IS-15140:2003 Amd No 1	No
Safety	Requirement for driver's and front-seat passenger's seat belt alert	AIS-145:2018 Amd No 1, 2, 3	No
Safety	Requirement for child restraint systems	AIS-072:2009 GSR 1483 (E), Dt: 07.12.2017	No
Safety	Occupants protection in the event of an offset frontal impact	AIS-098:2008 Amd No 1 and 2	No
Safety	Requirement for side impact	AIS-099:2008 Amd No 1, 2 and 3	No
Safety	Requirement for equipment with driver & front passenger airbag	AIS-145:2018 Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017 Central motor vehicles (Third Amendment) rules, 2021	No
Safety	Behaviour of steering mechanism in the event of a frontal impact	AIS-096:2008 Amd No 1, 2, 3, 4	No

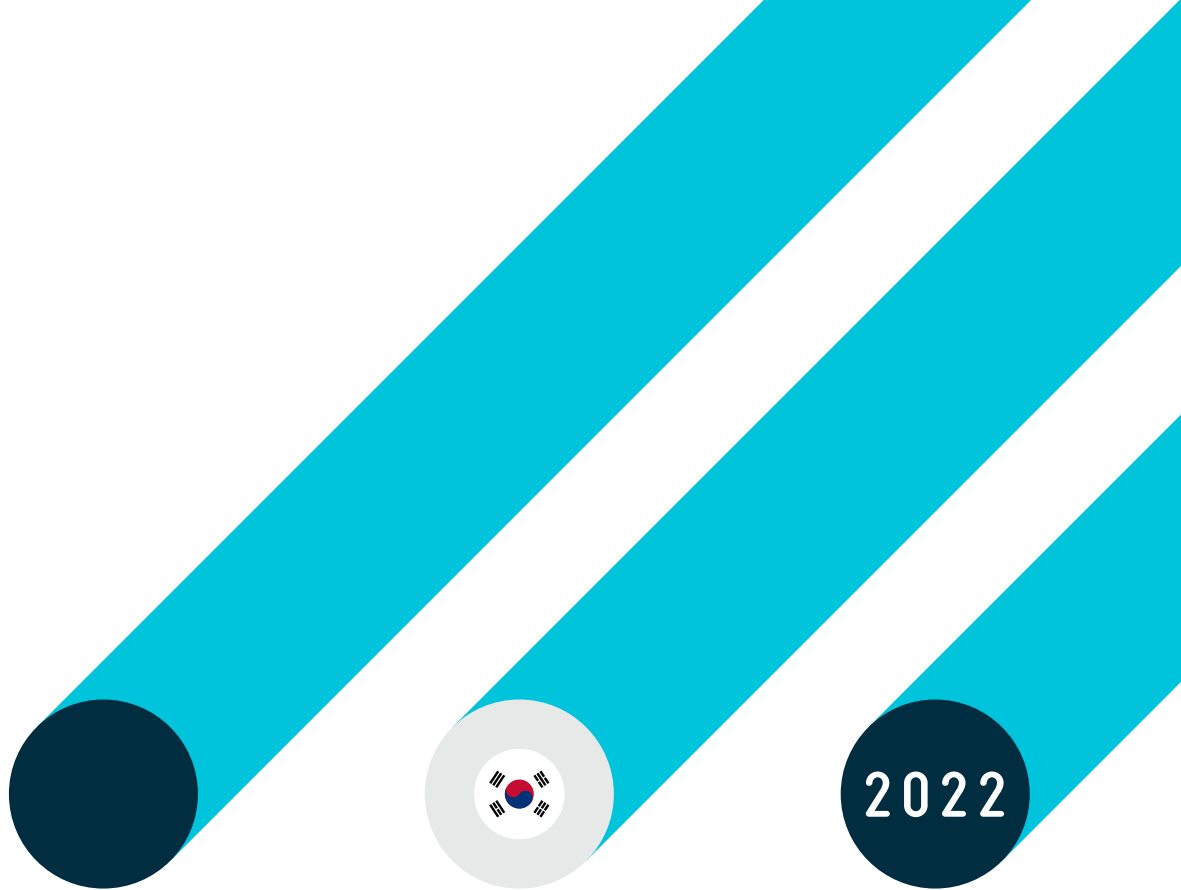
Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Performance requirements for dehumidifiers for glazed surfaces	AIS-084 (Part 1):2008 Amd No 1 and 2	No
Safety	Performance requirements for defrosters for glazed surfaces	AIS-084 (Part 2):2008 Amd No 1 and 2	No
Technical	Requirement for installation of lighting devices	AIS-008 (Rev 1):2010 Amd No 1, 2, 3, 4	No
Technical	Requirement for lighting (undipped / dimmed headlights)	AIS-010 (Part 1) (Rev 1): 2010 AIS-010 (Part 4) (Rev 1): 2010 AIS-010 (Part 5) (Rev 1): 2010	No
Technical	Requirement for fog lights	AIS-012 (Part1) (Rev 1): 2011 Amd No 1	No
Technical	Requirement for rear fog lights	AIS-012 (Part 2) (Rev 1): 2011	No
Technical	Requirement for turning lights	AIS-012 (Part 3) (Rev 1): 2011	No
Technical	Requirement for registration plate lighting	AIS-012 (Part 4) (Rev 1): 2011 Amd No 1 and 2	No
Technical	Requirement for direction indicator lights (front, side, back)	AIS-012 (Part 5) (Rev 1): 2011	No
Technical	Requirement for limiting lights, stop lights and outline marker lights	AIS-012 (Part 6) (Rev 1): 2011 Amd No 1	No
Technical	Requirement for reversing lights	AIS-012 (Part 7) (Rev 1): 2011 Amd No 1	No
Technical	Requirement for parking light	AIS-012 (Part 8) (Rev 1): 2011 Amd No 1	No
Technical	Requirement for side marker lights	AIS-012 (Part 9) (Rev 1): 2011 GSR 6108 (E), Dt: 10.12.2018	No
Technical	Requirement for daytime running lights	AIS-012 (Part 10) (Rev.1): 2011 Amd No 1	No
Technical	Requirement for filament lamps	AIS-034 (Part 1) (Rev.1): 2010 Amd No 1 GSR 6108 (E), Dt: 10.12.2018	No
Technical	Requirement for gas-discharge light sources	AIS-034 (Part 2) (Rev 1): 2010 GSR 6108 (E), Dt: 10.12.2018	No
Technical	Requirement for reflectors	AIS-057 (Rev.1): 2010 GSR 1152 (E), Dt: 11.12.2018	No
Technical	Requirement for headlights with variable light distribution (AFS)	AIS-127:2016 CMVR 1989, Rule 124	No
Technical	Mandatory equipment with warning triangle	AIS-022:2001, Amd No 1, 2, 3, 4, 5 CMVR 1989, Chapter VI, Rule 138	No

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirement for horn	IS-1884:1993 (Rev 03) IS-15796:2008 CMVR 1989, Chapter V, Rule 119 GSR 291 (E), Dt: 24.04.2014 GSR 214 (E), Dt: 18.03.1999	No
Technical	Requirement for safety glass (including BIS Certification and ISI Marking)	CMVR 1989 Chapter V Rule 100 (1), (2) & (3) IS-2553:(Part 2) 2019 Safety Glass (quality control) Amendment order, 2022-S.O. 620 (E) dated 10.02.2022 (Implementation date on 01.04.2023)	Yes
Technical	Requirement for windscreen wipe and washers	CMVR 1989, Chapter V, Rule 101 (1) and (2) IS-15804:2008 GSR 291 (E), Dt: 24.04.2014	No
Technical	Requirement for rear view mirror	AIS-001 (Part 1) (Rev 1): 2011 AIS-002 (Part 1) (Rev 1): 2011 GSR 1152 (E), Dt: 11.12.2018	No
Technical	Requirement for reverse parking alert	AIS-145:2018, Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017	No
Technical	Mandatory equipment with vehicle locating device and emergency call button in public transport vehicles (eg hotel-shuttle)	AIS-140:2016, Amd No 1 and 2 MoRTH Notification S.O. 5454 (E) / S.O. 5454 (E), Dt: 25.10.2018	No
Technical	Requirements for accelerator control system	CMVR 124 (1) IS:14283:1995	
Technical	Requirements for driver's field of vision	CMVR 124 (1) AIS 021 : 2004	
Environment	Requirement for fuel specification for biodiesel	GSR 590 (E) CMVR 1989, Chapter V, Rule 115E and 115F	No
Environment	Introduction of emission standard BS VI < GVW 3,500kg	AIS-137:2019 (Part 3) CMVR 1989, Rule 115 (18)(i), (2)(i), 115G (1) and (2) GSR 889 (E), GSR 954 (E), GSR 1461 (E), GSR 103 (E)	No
Environment	Requirement for test procedure emission (weight India)	MoRTH / CMVR / TAP-115 / 116 IS-9211:2003	No
Environment	Requirement for diesel exhaust (smoke), Idle Carbon Monoxide (CO) and Hydrocarbon (HC)	CMVR 1989, Chapter V, Rule 115 (2)(i) GSR 103 (E)	No
Environment	Requirement for geometry of exhaust outlet pipe	CMVR 1989, Chapter V, Rule 112 and 113	No
Environment	Requirement for OBD BS VI	AIS-137:2019 (Part 3), Chapter 14	No
Environment	Requirement for road load resistance (vehicle coast down)	AIS-137:2019 (Part 3), Chapter 5, Appendix 2	No

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for exterior (pass-by) noise	IS-3028:1998 (Rev 02) GSR 111 (E), Dt: 10.02.2004	No
Environment	Requirement for energy consumption	AIS-039 (Rev.1):2015, Corr 1	No
Environment	Requirement for range	AIS-040 (Rev.1):2015, Amd No 1	No
Environment	Requirements for approach climbability	AIS-003:1999, Amd No 1, 2, 3	No
Environment	Requirement for electric motor (net power / 30 min power)	AIS-041 (Rev 1):2015	No
Environment	Requirement for net power and maximum 30-minute power requirement for electric propulsion systems and compression ignition engines	AIS-137:2019 (Part 5)	No
Environment	Requirement for COP BSVI (Emissions)	AIS-137:2019 (Part 3)	No
Environment	Procedures for type-approval and conformity assessment of component production	AIS-037:2004, Amd No 1, 2, 3, 4, 5, 6, 7, 8 CMVR 1989, Chapter V, Rule 124(A) GSR 784 (E), Dt: 12.11.2008	Yes
Safety	Procedures for type-approval and conformity assessment of component production	AIS-037:2004 Amd No 1, 2, 3, 4, 5, 6, 7, 8 CMVR 1989, Chapter V Rule No 124(A) GSR 784 (E), 12.11. 2008	Yes
Mixed	CMVR type approval for electric power train vehicles	AIS 049 (Rev 1) : 2016 SO 2210 (E), Dt. 01.06.2018	
Mixed	Type approval procedure for electric and hybrid electric vehicles introduced in market for pilot / Demonstration projects intended for government scheme	AIS 131: 2015	
Mixed	Information on technical specifications to be provided by the vehicle manufacturer	AIS-007:2014 (Rev 5), Amd No 7	No
Mixed	Administrative procedure for type approval and conformity of production for M and N category vehicles	AIS-137:2019 (Part 6)	No
Mixed	Additional safety features for the improvement of vehicle / road safety, deactivating the parental lock	AIS-145:2018, Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017	No
Mixed	Requirement for vehicle classes	IS-14272:2011 GSR 1152 (E), Dt: 11.12.2018	No
Mixed	Implementation of crash regulation + Acceptance of EEC / ECE certificates for India type-approval tests (safety belts, seat anchorages and headrests, etc)	Standing Orders (S.O.) 1139 / 2412 CMVR 1989	No
Mixed	India homologation according to EU WVTA certificate, vehicle import \$40T and 2,500 regulation	DGFT 56 (RE-2008) / 2004-09 GSR 870 (E), Dt: 13.09.2018	No

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Requirement for ground clearance	IS-9435:2004	No
Mixed	Requirements for emissions test procedure (weight India)	CMVR 1989, Chapter V, Rule 93 (1), (2), (4), (6), (7) IS-9211:2003	No
Mixed	Requirement for dimensions	CMVR 1989, Chapter V, Rule 93	No
Mixed	Speed warning if 80km/h or 120km/h is exceeded	AIS-145:2018, Amd No 1 and 2 GSR 1483 (E), Dt: 07.12.2017	No
Mixed	Mandatory equipment with speed limiter for commercial vehicles	CMVR 1989, Chapter V, Rule 118 AIS-018:2001, Amd No 1, 2, 3, 4, 5	No
Mixed	Requirements for the accuracy of the speedometer	IS-11827:2008 CMVR 1989, Chapter V, Rule 117	No
Mixed	Requirement for VIN, production date and engine number	AIS-065:2005, Amd No 1, 2, 3 CMVR 1989, Chapter V, Rule 122 GSR 590 (E), Dt: 02.06.1989	No
Mixed	Requirement to attach the FASTag for toll collection system	CMVR 1989, Chapter IV, Rule 90, VI Rule 138A, Rule No 47 GSR 1361 (E), Dt: 02.11.2017	No
Mixed	Request for VIN, production date, engine number	CMVR 1989, Chapter VR 122	No
Mixed	Safety regulation for propulsion batteries	AIS-048:2009, Amd No 1	No
Mixed	Requirement for battery-powered electric vehicles	AIS-038 (Rev. 2) S.O. 5419(E) dated 27.12.2021	No
	Requirement for battery-powered electric vehicles	AIS-102 (Part 1):2009, Amd No 1 and 2 AIS-038 (Rev.2)	No
Mixed	Requirement for interference immunity for road vehicles	AIS-004 (Part 3):2009, Corrigendum 1, Amd No 1	No
Mixed	Requirement for reverse gear (construction, equipment and maintenance)	CMVR 1989, Chapter V, Rule 99	No
Mixed	National frequency Allocation plan 2018	NFAP-18 As per Ministry of telecommunication updates	No
Mixed	Requirement for first aid kit (local first aid kit prior to delivery)	CMVR 1989, Chapter CR138	No
Mixed	Procedure for type approval and certification of vehicles - Whole Vehicle Safety Conformity of Production (WVSCOP)	AIS-017 (Part 6) GSR 393 (E), Dt. 07.07.2021	
Mixed	Requirement for tyre pressure monitoring system (if fitted)	AIS 154:2018 GSR 457 (E), Dt. 20.07.2020	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Requirement to provide high security registration plates post registration (dealer fitment)	CMVR (50); Sub rule AIS 159 : 2019 GSR 104 (E), Dt. 11.02.2020	
Mixed	Requirement to provide ready to use spare wheel or temporary spare wheel or tyre repair kit	CMVR 1989 Chapter CR.138	
Aftersales	Certification and labelling requirement for several IT & electronic goods used in vehicles (eg wireless microphones, bluetooth, smart speakers, cameras)	Electronics & Information Technology Goods (Requirements for Compulsory Registration) Order, 2012 (from 01.10.2021)	Yes
Aftersales	Replacement brake lining	Replacement brake lining assemblies and drum brake linings (quality control) Order, 2020 (draft)	Yes
Radio	Telecommunication systems	Notification of mandatory testing and Certification of Telecommunication systems (MTCTE) – Phase III & IV (not relevant for automotive components) G/TBT/N/IND/218	



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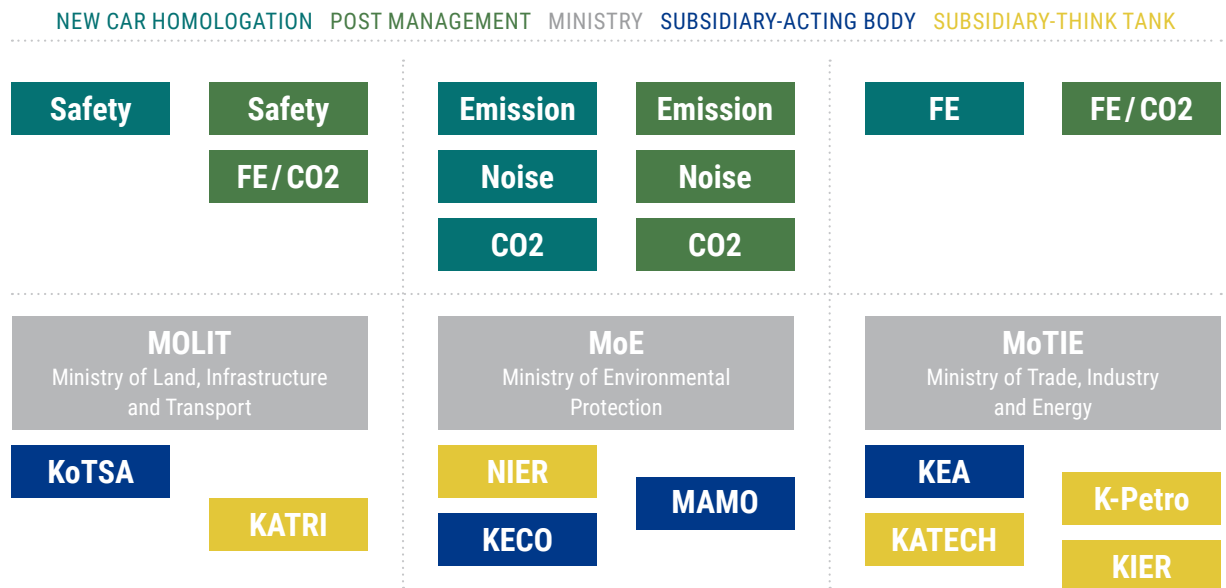


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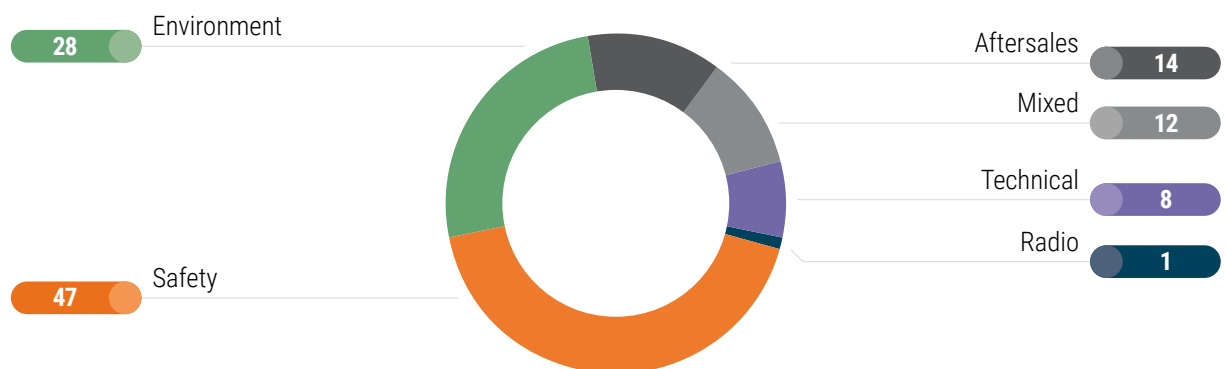
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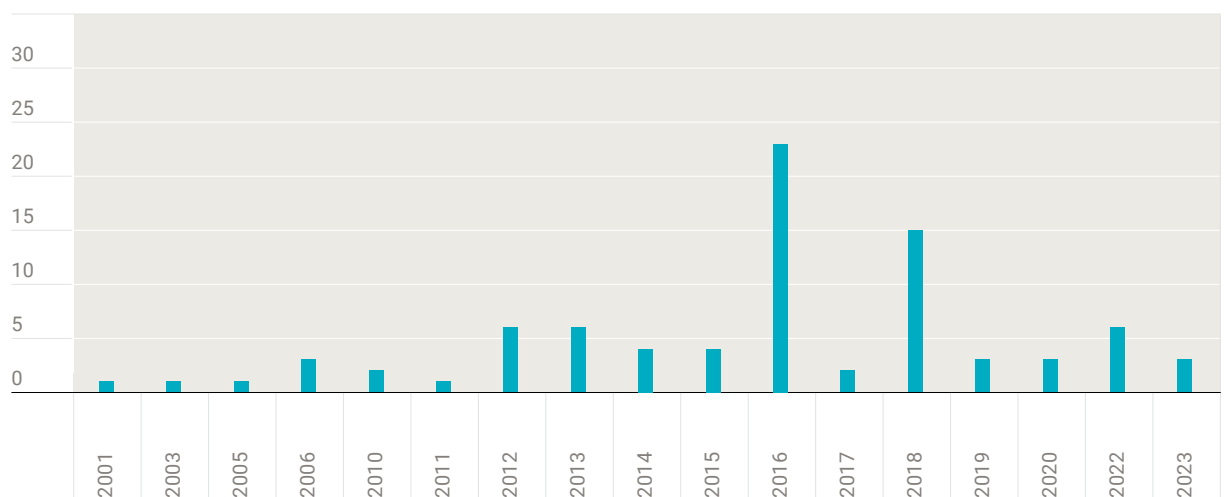
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for steering systems	KMVSS Art 14 (2016) KMVSS Art 89 (1) (2016) KMVSS Art 89 (2)	No
Safety	Requirement for steering and assistance systems	KMVSS Art 14-2 (2016) KMVSS Art 89-2 (2016)	No
Safety	Requirement for braking capability	KMVSS Art 15 KMVSS Art 90.1	No
Safety	Requirement for Electronic Stability Control (ESC)	KMVSS Art 15-2 (2016) KMVSS Art 90-2 (2016)	No
Safety	Requirement for braking capability (with ABS)	KMVSS Art 15 (6) (2016) KMVSS Art 90.4	No
Safety	Requirement for pneumatic tyres	KMVSS Art 12 (1) (2011)	Yes
Safety	Requirement for blow out test for wheels / tyres	KMVSS Art 88-2 (2016)	No
Safety	Requirement for Tyre Pressure Monitoring System (TPMS)	KMVSS Art 88-3	No
Safety	Requirement for exterior projections	KMVSS Art 19 (2012)	No
Safety	Requirement for bumper	KMVSS Art 93 (2011 / 2012)	No
Safety	Requirement for pedestrian protection leg test specimen FlexPLI alternatively applicable (NT), TRL still possible	KMVSS Art 102-2 (TRL is acceptable till 2021)	No
	Requirement for pedestrian protection omission of test specimen TRL, only leg test specimen FlexPLI permitted (mandatory for NT and AT) based on GTR 9	KMVSS Art 102-2 TRL applicable till 2021 (FlexPLI is only acceptable from 2022)	No
Safety	Test specification for Injury Criteria for Headform (HIC)	KMVSS Art 102-2 (2018)	No
Safety	Requirement for controls	KMVSS Art 13 (2001)	No
Safety	Requirement for interior fittings – instrumental panel	KMVSS Art 88 (2016)	No
	Requirement for interior fittings – backrest	KMVSS Art 98 (2016)	No
	Requirement for interior fittings – armrest	KMVSS Art 100 (2016)	No
	Requirement for interior fittings – sun visor	KMVSS Art 101 (2016)	No
Safety	Requirements for occupant protection in the event of impact in interior doors	KMVSS Art 108	No



Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for anti-theft protection	KMVSS Art 22	No
Safety	Requirement for glazing materials	KMVSS Art 34 (2006)	Yes
Safety	Requirement for gas pedal control system	KMVSS Art 87	No
Safety	Requirement for strength of door locks and door hangers	KMVSS Art 104 (2)	No
Safety	Elimination of the minimum seat cushion width for new types	KMVSS Art 24 KMVSS Art 25 KMVSS Art 25 (2) KMVSS Art 97	No
Safety	Requirement for head restraints	KMVSS Art 26 (2012) KMVSS Art 99 (2012)	No
Safety	Requirement for seats / seat anchorage	KMVSS Art 97 (2016)	No
Safety	Requirement for belt warner	KMVSS Art 27 (4) (2021 / 2022)	No
Safety	Requirement for safety belt anchorages	KMVSS Art 103 (2012)	No
Safety	Requirement for child seat anchorages – ISOFIX	KMVSS Art 103-2 (2010) KMVSS Art 27-2 (2010)	No
Safety	Requirement for flammability of interior materials	KMVSS Art 95 (2015)	No
Safety	Requirement for frontal impact – Integrity of fuel system	KMVSS Art 91 (2022)	No
Safety	Requirement for occupant protection in the event of a frontal impact	KMVSS Art 102 (2016)	No
Safety	Requirement for occupant protection and tank integrity in the event of a frontal impact - fixed barrier	KMVSS Art 102-3 (2020/2022)	No
Safety	Requirement for occupant protection and airbag Notice in the event of a frontal impact	KMVSS Art 102 (2020)	No
Safety	Requirement for mounting of windscreen	KMVSS Art 105 (2) (2006)	No
Safety	Requirement for occupant protection in the event of windscreen intrusion	KMVSS Art 105 (2) (2016)	No
Safety	Requirement for side crash - Fuel system integrity	KMVSS Art 91 (4) (2022)	No
Safety	Requirement for occupant protection in the event of a side impact	KMVSS Art 102 (1)	No
Safety	Requirement for pole side impact, World-SID	KMVSS Art 102-(4) (2022)	No



Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for door impression resistance	KMVSS Art 104 (1) (2003)	No
Safety	Requirement for rear impact – Fuel system integrity	KMVSS Art 91 (2016)	No
Safety	Requirement for driver impact protection against the steering system	KMVSS Art 89	No
Safety	Requirement for rearward displacement of the steering system	KMVSS Art 89	No
Safety	Requirement for voluntary installation of an accident data recorder	MVMA 2019 (Motor Vehicle Management Act) Art 29-3 Enforcement Regulation Art 30-3 KMOVSS Art 56-2 (2005)	No
Safety	Requirement for high-voltage safety after a crash	KMOVSS Art 91 (4) (2022) (currently under review)	No
Safety	Requirement for roof impression protection (convertibles excluded)	KMOVSS Art 92	No
Safety	Requirement for defrosting and demisting	KMOVSS Art 51 KMOVSS Art 109, table 30	No
Safety	Requirements for equipment with a car-to-car AEBS (Automatic Emergency Braking System)	KMOVSS Art 15-3 Not relevant for passenger vehicles	No
Safety	Requirement for the field of vision	KMOVSS Art 50 (1)	No
Safety	Requirement for rear pedestrian protection device	KMOVSS Art 53-2 (2022)	No
Safety	Requirement for the driver's field of vision	KMOVSS Art 94	No



Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirement for the installation of lighting and light signalling devices	KMVSS Art 38 T. 6-3,-4,-5 KMVSS Art 38-2 T. 6-6, -7 KMVSS Art 38-3 T. 6-30 KMVSS Art 38-4 T. 6-8 KMVSS Art 38-5 T. 6-9 KMVSS Art 39 T. 6-10 KMVSS Art 39-2 T. 6-31 KMVSS Art 40 T. 6-11 KMVSS Art 40-3 T. 6-32 KMVSS Art 41 T. 6-13 KMVSS Art 42 T. 6-14 KMVSS Art 43 T. 6-15,-16 KMVSS Art 44 T. 6-17 KMVSS Art 44-2 T. 6-18 KMVSS Art 45 T. 6-19 KMVSS Art 47 KMVSS Art 48 KMVSS Art 49 T. 6-23,-26,-27	No
	Requirement for lighting and signalling system: head lamp	KMVSS Art 38 KMVSS Art 48, §3 KMVSS Art 106, Item 1	
	Requirement for lighting and signalling system: front fog lamp	KMVSS Art 38-2, §1 KMVSS Art 106, Item 2	
	Requirement for lighting and signalling system: backup lamp	KMVSS Art 39 KMVSS Art 106, Item 3	
	Requirement for lighting and signalling system: clearance lamp	KMVSS Art 40 KMVSS Art 106, Item 4	
	Requirement for lighting and signalling system: registration plate lamp	KMVSS Art 41 KMVSS Art 106, Item 5	
	Requirement for lighting and signalling system: tail lamp	KMVSS Art 42 KMVSS Art 106, Item 6	
	Requirement for lighting and signalling system: stop lamp	KMVSS Art 43, §1 KMVSS Art 106, Item 7	
	Requirement for lighting and signalling system: centre high mounted stop lamp	KMVSS Art 43, §2, §3 KMVSS Art 106, Item 8	
	Requirement for lighting and signalling system: turn signal	KMVSS Art 44 KMVSS Art 106, Item 9	
	Requirement for lighting and signalling system: auxiliary turn signal	KMVSS Art 44 KMVSS Art 106, Item 10	
	Requirement for lighting and signalling system: rear fog lamp	KMVSS Art 38-2, §2 KMVSS Art 106, Item 2	
	Requirement for lighting and signalling system: retro-reflection devices	KMVSS Art 49, §1, §2 KMVSS Art 107	



Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Requirement for sound level	KMVSS Art 53 containing table 13 NVCA Reg Art 29 (Noise vibration control act)	No
Technical	Requirement for audible warning devices (horn)	KMVSS Art 53	No
Technical	Requirement for rear view mirror	KMVSS Art 108	No
Technical	Requirement for the limitation of the operation of Digital Multimedia Broadcasting(DMB) and display systems	MOLIT Not 2012-08-12	No
Technical	Safety regulations for national geodata	National Space Information Security Management Regulation (MOLIT Ordinance 949) (2016)	No
Technical	Disaster alert	Disaster and Safety Management Act Art 3 and 38 (2013)	No
Technical	Hood latch system	KMVSS Art 21	No
Environment	Requirement for exhaust gases Euro 6b and On-Board Diagnostic (OBD) Euro 6-1		No
Environment	Requirement for emission legislation and ZEV mandate	AEPA Enforcement Regulations (MOE Ord. 948-2021)	
Environment	Emission regulation Diesel (WLTP, RDE)	AEPA Enforcement Regulations (MOE Ord. 948-2021)	No
Environment	Requirement for test fuel	AEPA Enforcement Regulations (MOE Ord. 948-2021)	No
Environment	Introduction emission legislation LEV III	AEPA Enforcement Regulations (MOE Ord. 948-2021)	No
Environment	Requirement for diesel emission standard	AEPA Enforcement Regulations (MOE Ord. 948-2021)	No
Environment	Requirement for fuel evaporation	AEPA Enforcement Regulations (MOE Ord. 948-2021)	No
Environment	Requirements for Emission-relevant Components (ERC)	AEPA Enforcement Ordinance (Pres. Ord. 31847-2021) AEPA Enforcement Regulation (MOE Ord. 948-2021)	No
Environment	Requirement for the determination of weights and driving resistances	MOE Notification 99-88 (MOE Notification 2009-110 / 2009-289 / 2012-122) MOE Notification 2013-38 MOLIT Ordinance 99 MOLIT 2012-124 MKE Notification No 2013-4	No



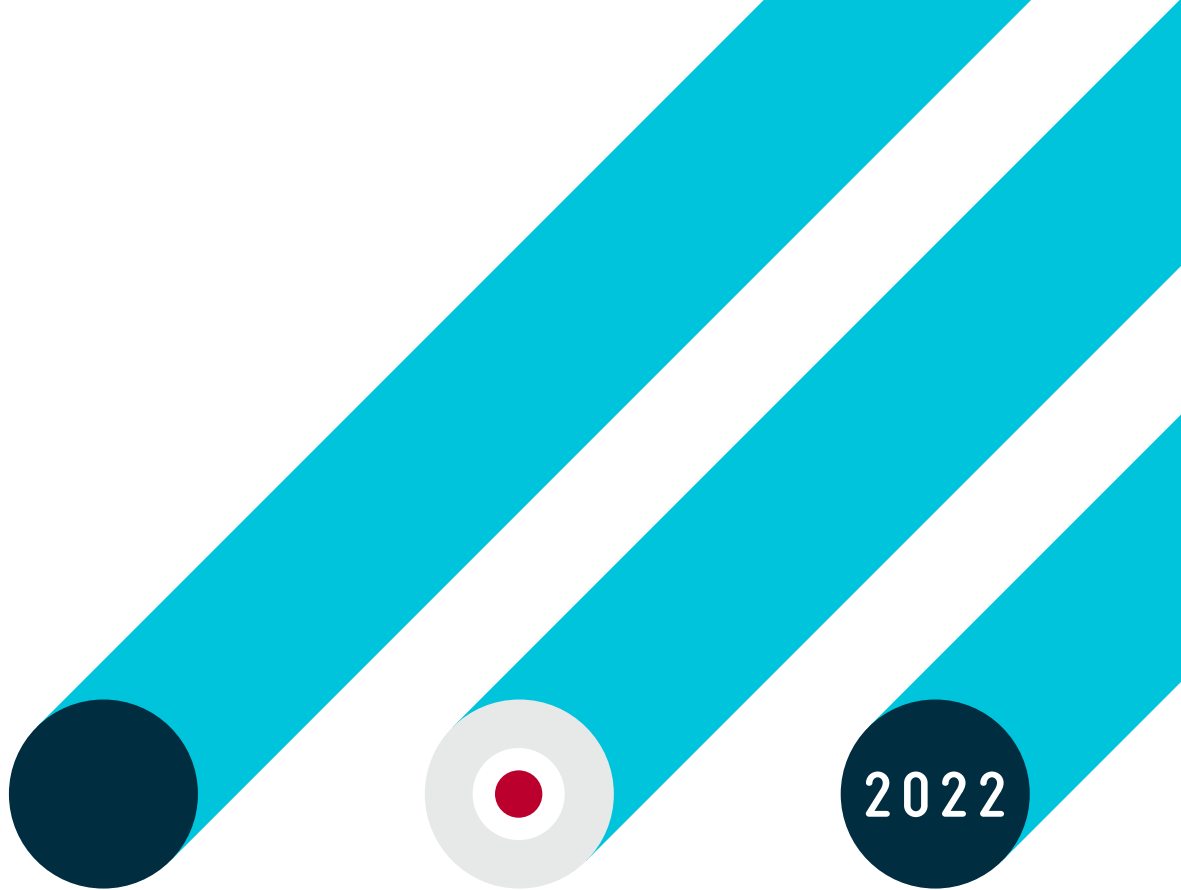
Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for external noise measurement	MOE Notification 2019-129	No
Environment	Requirement for Acoustic Vehicle Alerting Systems (AVAS)	KMVSS Art 53-3 containing table 6-33 (2020)	No
Environment	Adjustment of the weight-based, manufacturer-specific fleet consumption target value	KAIDA Regulation 2014.12	No
Environment	Requirement for fuel consumption	MOLIT Notification 2017-809 MOTIE Notification 2017-175 MOE Notification 2017-216	No
Environment	Emission and fuel consumption test	MOE Notification 2015-6	No
Environment	Requirement for electrical range at low temperature	MOE Notification 2012-122	No
Environment	Requirement for fleet consumption	MOE Notification 89 / 2011 (MOE Notification 2017-225)	No
Environment	DF / KI determination for WLTP vehicles	MOE Notification 99-88 (MOE Notification 2018-45)	No
Environment	Requirement for warranty period for emission values in In Use Test for diesel-powered taxis	MOE Ordinance 608 (2013 / 2015)	No
Environment	Control standard for indoor air quality	MOLIT Not. 2019-144 (Amendment under discussion)	No
Environment	Modification of exhaust pipe angle	KMVSS Art 17, § 1, sub 2 KMVSS Art 19, § 1, sub 2 (2018) KMVSS Art 37 (2018)	No
Environment	Requirement for OBD thresholds	OBD Euro 6-2 (2018)	No
Environment	Procedure for determination of road load resistance	MOLIT / MOE / MOTIE Notification 14.11.20	No
Environment	Requirement for combustion engine	KMVSS Art 11 (1) (2014) KMVSS Art 111 (1) (2014)	No
Environment	Requirement for electric motor	KMVSS Art 11 (1) (2014) KMVSS Art 111 (2) (2014)	No
Environment	Requirement for the recycling of end-of-life vehicles and material bans	Act No 17848 (2021) Pres. Ordinance 31874 (2021) MOE Ordinance 928 (2021)	No
Environment	Specification Diesel Test Fuel, Requirement Test Fuel Certificates for Diesel FE Tests	AEPA and Petroleum Business Act (2016)	No
Environment	Requirement for EMC	KMVSS Art 111-2 (2016)	No
Mixed	Type approval according to KMVSS Art equivalent table (table 4)	MOLIT Notification 2019-76	No



Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Safety regulation for ground clearance	KMVSS Art 5	No
Mixed	Determination of Korean weights and driving resistance	Weight definition Korea (2015)	No
Mixed	Requirement for connecting devices	KMVSS Art 20 (2) (2018)	No
Mixed	Requirement for towing device	KMVSS Art 20 (1)	No
Mixed	Requirement for speedometer / odometre	KMVSS Art 54 (1) KMVSS 110 (2016)	No
Mixed	Requirements for the mounting of registration plates	MOLIT Notification 2016-406 (MOLIT Notification 2019-89) Art 6-2	No
Mixed	Requirement for HV batteries systems of electric vehicles	KMVSS Art 18-2 KMVSS Art 18-3 (2016)	No
Mixed	Requirement for fire extinguishers for vehicles with > 7 seats	KMVSS Art 57 (2006)	No
Mixed	Approval of pharmaceutical products (relevant for first aid kits)	§ 35 Pharmaceutical Affairs Act (2017)	No
Mixed	Requirement for Vehicle Identification Number (VIN)	MVMA 2019 (Motor Vehicle Management Act) Art 22-23	No
Aftersales	Requirement for spare parts for mandatory KC certification, registration and permanent labelling	MOLIT Notification 2017-668, table 6	Yes
Aftersales	Brake linings	KMVSS Art 112-10 (2018)	Yes
Aftersales	Rims	KMVSS Art 12 (4) KMVSS Art 112-11 containing table 30-7 (2018)	Yes
Aftersales	Safety belts	KMVSS Art 112-3 containing table 16 (2013)	Yes
Aftersales	Warning triangle	KMVSS Art 112-8 (2018)	Yes
Aftersales	Lighting system	KMVSS Art 112-4 (2013)	Yes
Aftersales	Rear retro-reflectors	KMVSS Art 112-5 (2013)	Yes
Aftersales	Vehicle safety glazing	KMVSS Art 112-7 (2018)	Yes
Aftersales	Brake hoses	KMVSS Art 112-2	Yes
Aftersales	Rear under-run protection	KMVSS Art 19, § 4 KMVSS Art 96	Yes
Aftersales	Rear marking plates for heavy and long vehicles	Harmonised with UN R70	Yes



Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Rear marking plates for slow-moving vehicles	Harmonised with UN R69	Yes
Aftersales	Possibility of labeling on the packaging	MOLIT Notification No 2018-788	Yes
Aftersales	Amendments to KC marking for vehicle parts	MOLIT Notice No 2019-440	Yes
Mixed	Mutual acceptance of UN Regulations for vehicles and parts	EU-South Korea Free Trade Agreement (Annex 2-C Motor vehicles and parts)	Yes
Radio	Radio components	Radio Waves Act Enforcement Ordinance of Radio Act Presidential Notification No 27971 (2013 / 2018) Announcement on conformity assessment of broadcasting and communication equipment, etc [National Radio Research Agency Notice No 2021-20, 17.11.2021]	Yes
Environment	Partial amendment of the Public Notice on Corporate Average Energy Efficiency Standards, Greenhouse Gas Emission Standards for Motor Vehicles and Application and Management of the Standards (Ministry of Environment Notice No 2019-34, 30.01.2019) setting CO2 emissions performance standards for new passenger cars and for new light commercial vehicles	MOE Notification No 2021-37 (16.02.2021) effective from 2021	n/a



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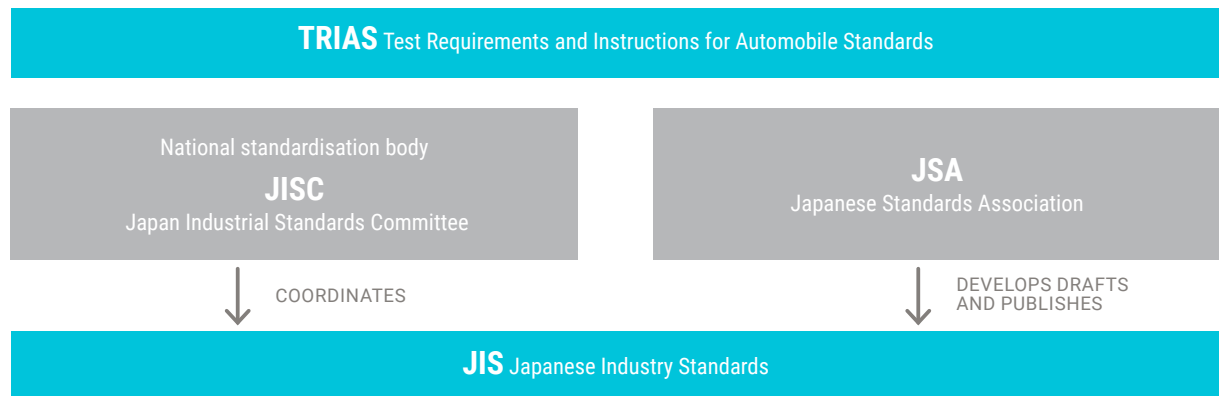


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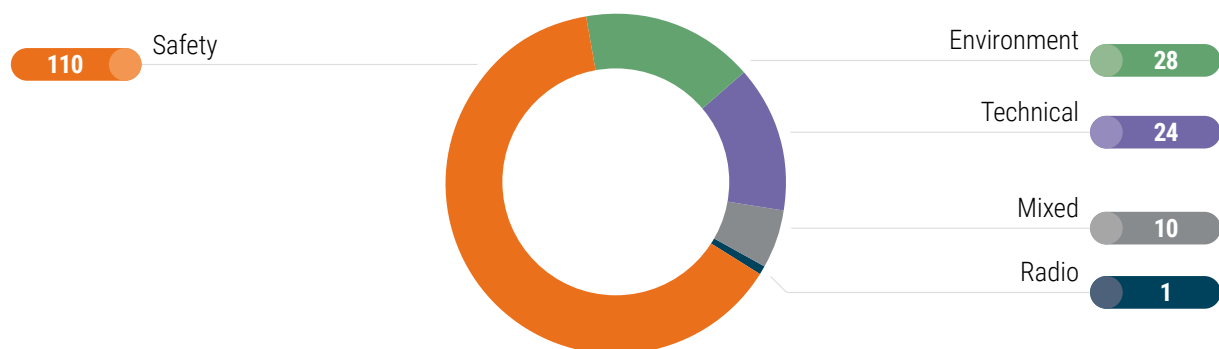
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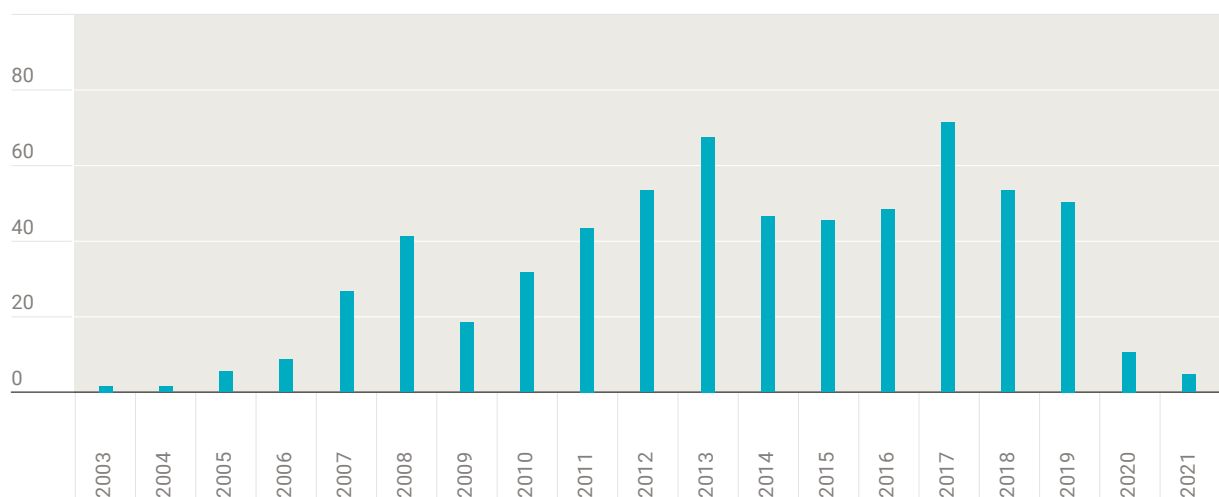
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for steering systems Adoption of R79: Passenger cars with 10 persons or more and with gross vehicle weight (GVW) of more than 5t and trucks with GVW over 12t Adoption of R79: Other than above ACSF Category A and B1, and Corrective Steering Function Allow use of Emergency Steering Function (ESF) indicator as optical signal for Corrective Steering Function (CSF) activation: - ESF and ACSF Category C (turn signal-originated lane change) - Review and addition of Annex 6 (provisions to secure safety of electronic systems) requirements Clarification of the following requirements: - Requirements for using flashing for CSF optical alarms - Requirements for ESF warning display - Category C (turn signal-originated lane change) termination requirement, hands-off warning	TRIAS 11-R079-01 TRIAS 11-R079-02 TRIAS 11-R079-03 Ordinance No 54, Announcements No 675 and 676, Kokujigi No 32-2 Announcement No 88 Ordinance No 61, Announcement No 906, Kokujigi No 135-2 Ordinance No 80, Announcement No 1175, Kokujigi No 134-2 Ordinance No 80, Announcement No 1175, Kokujigi No 134-2 Announcement No 52 Harmonised with UN R79	No
Safety	Testing of passenger car braking systems	TRIAS 12-R013H-02 (2012) Harmonised with UN R13H	No
Safety	Testing of brake assist systems	TRIAS 12-R139-01 Ordinance No 7 Announcements No 88 and 89 Announcement No 1395 Announcement No 52 Harmonised with UN R139	No
Safety	Testing of Electronic Stability Control systems (ESC)	TRIAS 12-R140-01 Ordinance No 7 Announcements No 88 and 89 Announcement No 1175 Announcement No 1395 Announcement No 52 Harmonised with UN R140	No
Safety	Brake system for commercial vehicles	TRIAS 12-J010-01 TRIAS 12-R013-02 Harmonised with UN R13	
Safety	Requirement for testing of pneumatic tyres	TRIAS 09-J003-R030-01 (2012)	
Technical	Requirement for temporary use spare tyres	TRIAS 09-R064-02 Ordinance No 54, Announcements No 675 and 676 Announcement No 1048 Ordinance No 7 Announcements No 88 and 89 Announcement No 52 Harmonised with UN R64	No

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Testing of tyres regarding rolling sound emission and / or adhesion on wet surfaces and / or roll resistance	TRIAS 09-R117-01 Ordinance No 74 Announcements No 1048 and 1049 Kokujikan No 136-2 Announcement No 226 Announcement No 88 Announcement No 52 Harmonised with UN R117	No
Technical	Testing of tyre pressure monitoring systems (RDC)	TRIAS 09-R141-01 Ordinance No 7 Announcements No 88 and 89 Harmonised with UN R141	
Technical	Testing of pneumatic tyres mounted on motor vehicles	TRIAS 09-R142-01 Ordinance No 7 Announcements No 88 and 89 Kokujigi No 226-2 Announcement No 1175 Harmonised with UN R142	No
Safety	Testing of light metal - disc wheels	TRIAS 09-J002-02 (Attachment 2) (2012)	No
Safety	Requirement for exterior projections	TRIAS 18-J020-R026-01 (2009)	No
Safety	During the type approval test of the wheel covers, the tyre width without rim flange protection and lettering or ornamentation is taken into account.	Safety Regulation Art 22 No 843 (2017)	No
Safety	Pedestrian head and leg protection verification	TRIAS 18-J099(1)-01 TRIAS 18-J099(2)-01 (2018 / 2019) TRIAS 18-R127-01 Harmonised with UN R127	No
Safety	Test specification for active front flaps	TRIAS 18-R127-X based on GTR 9	No
Safety	Testing of plastic fuel tanks for passenger cars (component test)	TRIAS 15-J016-02	No
Safety	Testing of fuel tank leakage in the event of an impact	TRIAS 15-J017-01	No
Safety	Requirement for testing of fuel tank (component test)	TRIAS 15-R034(1)-01	No
Safety	Requirement for testing of vehicle	TRIAS 15-R034(2)-01	No
Safety	Testing of rear underride protection devices	TRIAS 18(2)-R058(2)-02 (2012) Harmonised with UN R58 (vehicle test)	No
Safety	Technical guideline for front night vision systems (optional application, divergences from the guideline must be agreed in special processes with the authorities in Japan)	Technical Guideline – Attached Sheet 4 (Kokujigi 17 / 2002)	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Verification of controls, indicator lights and displays	TRIAS 10-R121-02 (2017) Ordinance No 73, Announcements No 826 and 827 Announcement No 126 Announcement No 1175 Ordinance No 47 Announcements No 723 and 724 Kokujigi No 47-2 Announcements No 88 and 89 Announcement No 640 Announcement No 945 Announcement No 1175 Harmonised with UN R121	No
Safety	Testing of locking devices for four-wheeled vehicles	TRIAS 11(2)-J007-R018-R116-01	No
Safety	Testing of engine immobilisers	TRIAS 11(2)-J009-R097-R116-01	No
Safety	Safety regulations for road vehicles Engine and power train Pedal lever	Safety Regulation Art 8 Ord 67 / 1951 (2005)	No
Safety	Testing of door locks and door suspensions	TRIAS 25-R011-01 TRIAS 25-J036-01 Harmonised with UN R11	No
Safety	Requirement for interior fittings	TRIAS 20-R021-01 Harmonised with UN R21	No
Safety	Application of UN ECE-R 21 (interior fittings of vehicles) - Elimination of the obligation to provide proof	TRIAS 20-J028-02 (dashboard) TRIAS 20-J087-01 (sun visor)	No
Safety	Requirement for head restraints	TRIAS 22(4)-J034R025-01 Harmonised with UN R25	No
Safety	Elimination of headroom requirements	Safety Regulation Art 26 (2017) Acceptance of UN ECE-R 17	No
Safety	Elimination of seat width requirements	Safety Regulation Art 28 (2017) Acceptance of UN ECE-R 14 and 16	No
Safety	Testing of seats and seat anchorages	TRIAS 22-R017(1)-01 (2011) Harmonised with UN R17	No
Safety	Testing of seat belt anchorages	TRIAS 22(3)-R014-01 (2012) Harmonised with UN R14	No
Safety	Seat belt anchorage	TRIAS 22(3)-R014-01 TRIAS 22(5)-R014-02 TRIAS 22(3)-J031-01 Harmonised with UN R14	
Safety	CRS	22(5)-R044-01, 22(5)-R014-02 (ISOFIX), 22(5)-R016-02 (ISOFIX CRS load ability) Harmonised with UN R44, R 129	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	CRS Installation	TRIAS 22(5)-R145-01 Harmonised with UN R145	
Safety	Testing of seat belts	TRIAS 22(3)-R016(1)-01 (2018) TRIAS 22(3)-R016(2)-01 (2021 / 2022) Harmonised with UN R16 (vehicle inspection) TRIAS 22(3)-R016(3)-03 (2021 / 2022) Harmonised with UN R16 (seat belt warning devices)	No
Safety	Safety belts, restraint systems, child restraint systems and ISOFIX child restraint systems	TRIAS 22(5)-R016-02 TRIAS 22(5)-R145-01	No
Safety	Safety belt anchorages, ISOFIX anchorage systems and ISOFIX upper strap anchorages	TRIAS 22(5)-R014-02 TRIAS 22(5)-R145-01	No
Safety	Testing of flame-resistant interior materials	TRIAS 20-J027-01' (2012)	No
Safety	Requirement for signal torch	Safety Regulation Art 43-2 (2006)	No
Safety	Requirement for an off-set frontal impact for high voltage cars	TRIAS 17(2)-R094-02	No
Safety	Testing of occupants protection and fuel tank tightness in the event of frontal collision	TRIAS 18-J023(1)-01 TRIAS 18-J023(2)-01 (2011) Announcements No 723 and 724 Kokujigi No 47-2	No
Safety	Testing of occupants protection in the event of a staggered impact Clarification of requirements for protection against electroshock Warning label on the use of rearward-facing CRS on seats equipped with airbag shall be visible Change of reference for airbag labeling to UN-R16 and correction of production compatibility	TRIAS 18-R094-02 (2009) Announcement No 675 Announcement No 68 Harmonised with UN R94	No
Safety	Testing of occupants protection from high voltage after a frontal collision Chest compression criterion 5th percentile co-driver: ≤34mm	TRIAS 17(2)-R137-01 TRIAS 18-R137-01 Harmonised with UN R137	No
Safety	Testing of occupants protection and fuel tank tightness in the event of a frontal collision Chest compression criterion 5th percentile co-driver: ≤34mm	TRIAS 18-R137(1)-01 Harmonised with UN R137	No
Safety	Requirement for side impact for high voltage cars	TRIAS 17(2)-R095-02	No
Safety	Testing of occupants protection in the event of lateral collisions for vehicles with combustion engines	TRIAS 18-R095-02 Harmonised with UN R95	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Side Collision	TRIAS 18-J024R095-01 TRIAS 18-R095-02 Harmonised with UN R95	
Safety	Testing of occupants' protection in the event of pole side impact	TRIAS 18-R135-01 Harmonised with UN R135	No
Safety	Testing of fuel tank tightness in case of rear impact	TRIAS 15-J017-01	No
Safety	Testing of occupants' protection from the steering system in the event of frontal collision for vehicles with combustion engine (Impact Absorbing Steering System)	TRIAS 11-R012-01 (2015) TRIAS 11-J006R012-01 Harmonised with UN R12	No
Safety	Driver's protection from the steering system in the event of an impact for high voltage cars	TRIAS 17(2)-R012-02	No
Safety	Stability Requirements for overturn angles for vehicles whose gravity point is lower when loaded than when unloaded: 35° → 30°	TRIAS 05-001-02 TRIAS 05-002-01 Announcement No 675	
Safety	Advanced Emergency Braking System Passenger Cars and Trucks	TRIAS 12-J113-01 TRIAS 12-R131-02 TRIAS 12-R152-01 Harmonised with UN R131, UN R152	
Safety	Electric safety	TRIAS 17(2)-J110-01 TRIAS 17(2)-J111(1)-0 TRIAS 17(2)-J111(2)-02 TRIAS 17(2)-R012-02 TRIAS 17(2)-R094-02 TRIAS 17(2)-R095-02 TRIAS 17(2)-R100-01 TRIAS 17(2)-J101-01 Harmonised with UN R100	
Safety	Pole Side Impact New standards for pole side impact and application of UN-R135 (Scope: All M1 vehicles and some N1 vehicles) Increase in the collision speed for vehicles whose width is 1.5m or less (26-33km/h → 31-33km/h) M1 is applicable only when it is 3.5t or less	Ordinance No 47 Announcements No 723 and 724 Kokujigi No 47-2 Ordinance No 1 Announcements No 226 and 227 Kokujigi No 214 Harmonised with UN R135	
Safety	Strength of super structure for large passenger vehicles New requirements for buses with 18 persons or more and over 12t, which are harmonised with UN R66	Harmonised with UN R66	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Rear Underrun Protection Devices (RUPD)	TRIAS 18(2)-J025-01 TRIAS 18(2)-J026-01 TRIAS 18(2)-R058(1)-01 TRIAS 18(2)-R058(2)-02 Harmonised with UN R58	
Safety	Front Under-run Protection	TRIAS 18(2)-J107R093-01 TRIAS 18(2)-J108R093-01 Harmonised with UN R93	
Safety	Seats (Seats that are installed facing backwards excluded from the scope) - Requirements for folding seats - Requirements for luggage compartment - Clarification of requirements on damage to seatbelt components after conducting luggage compartment partition strength tests - Applicable to buses and trucks - Test procedures for side-facing seats	TRIAS 22-J030-01 TRIAS 22-R017-01, 22-J030-01 TRIAS 22-R080(1)-02 (bus single-unit) TRIAS 22-R080(2)-02 (bus vehicle) Announcement No 675 Announcements No 226 and 227 Ordinance No 8, Announcement No 68, Kokujigi No 26 Announcement No 640	
Safety	Seat belt	TRIAS 22(3)-R016(1)-01 (unit) TRIAS 22(3)-R016(2)-01 (vehicle) TRIAS 22(3)-J032-01 Harmonised with UN R16	
Safety	Seat belt reminder	TRIAS 22(3)-R016(3)-03 Harmonised with UN R16	
Safety	Lamp mounting Allow the installation of DRL (UN R87 and UN R48) (Installation is optional)	TRIAS 32-J052R048-03 Harmonised with UN R48 Ordinance No 73 Announcement No 1121	
Technical	Theft prevention device	TRIAS 43(5)-J078R097R116-01 Harmonised with UN R116	
Safety	Lane Departure Warning System (LDWS)	TRIAS 43(6)-R130-01 Harmonised with UN R130	
Environment	Acoustic Vehicle Alerting System	Harmonized with R138	
Safety	Accident Emergency Call System (AECS)	Harmonized with R144	
Safety	Blind Spot Information System (BSIS)	Harmonized with R151	
Safety	Proximity field of vision Exemption of technical standards attachment No 81 for trucks over 7.5t which comply with front and passenger side proximity field of vision requirements of UN R46	TRIAS 44-J081-01 Ordinance No 50 Announcements No 826 and 827 Kokujigi No 44-2	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Testing of anti-theft devices	TRIAS 43(5)-J078-R097-R116-01	No
Safety	Driver's protection from the steering system in the event of an impact for high voltage cars	TRIAS 17(2)-R012-02	No
Safety	Testing of de-icing and de-misting devices	TRIAS 45-J086-01 (2012)	No
Technical	Verification of the installation of lightning, retro-reflecting devices and direction indicators	TRIAS 32-J052-R048-04	No
Safety	Testing of headlamps Gas discharge	TRIAS 32-R098-02 (2010) Harmonised with UN R98	No
	Testing of headlamps Halogen + LED	TRIAS 32-R112-04 (2010) Harmonised with UN R112	No
	Testing of headlamps Adoption of R149, integrating UN Regulations for road illumination devices (R19, R98, R112, R113, R119, R123)	Ordinance No 40 Announcement No 714	
	Testing of headlamps Adaptive front-lighting system	TRIAS 32-R123-05 (2010) Harmonised with UN R123	No
Safety	Headlamp cleaner	TRIAS 32-J055R045-01 TRIAS 32-J056R045-01 Harmonised with UN R45	
Safety	Testing of front fog lamps	TRIAS 33-R019-02 (2010) Harmonised with UN R19	No
Safety	Testing of cornering lamps	TRIAS 33(2)-R119-02 (2011) Harmonised with UN R119	No
	Adoption of R149, integrating UN Regulations for road illumination devices (R19, R98, R112, R113, R119, R123)	Ordinance No 40 Announcement No 714	
Safety	Maneuvering lamp	TRIAS 33(3)-R023-02 Harmonised with UN R23	
	Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	Ordinance No 40 Announcement No 714	
Safety	Testing of front position lamps	TRIAS 34-J058R007-01 (2012) Harmonised with UN R7	No
	Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	Ordinance No 40 Announcement No 714	
Safety	Front upper-end lamp	TRIAS 34(2)-J059R007-01 Harmonised with UN R7	
	Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	Ordinance No 40 Announcement No 714	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Front reflex reflector Adoption of R150, integrating UN Regulations for retro-reflective devices (R3, R27, R70, R104)	TRIAS 35-J060R003-01 Harmonised with UN R3 Ordinance No 40 Announcement No 714	
Safety	Testing of daytime running lamps	TRIAS 34(3)-R087-01 (2021) Harmonised with UN R87	No
Safety	Testing of side-marker lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 35(2)-J061R091-01 (2013) Harmonised with UN R91 Ordinance No 40 Announcement No 714	No
Safety	Side reflex reflector Adoption of R150, integrating UN Regulations for retro-reflective devices (R3, R27, R70, R104)	35(2)-J062R003-01 Harmonised with UN R3 Ordinance No 40 Announcement No 714	
Safety	Testing of side retro-reflectors	TRIAS 35(2)-J062-R003-01 (2013) Harmonised with UN R3	No
Safety	Testing of number plate lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 36-R004-01 (2020) Harmonised with UN R4 Ordinance No 40 Announcement No 714	No
Safety	Testing of rear lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 37-J064R007-01 (2012) Harmonised with UN R7 Ordinance No 40 Announcement No 714	No
Safety	Testing of rear fog lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 37(2)-J065R038-01 (1997) Harmonised with UN R38 Ordinance No 40 Announcement No 714	No
Safety	Testing of parking lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 37(3)-J066R077-01 (2013) Harmonised with UN R77 Ordinance No 40 Announcement No 714	No
Safety	Large-sized rear reflex reflector Adoption of R150, integrating UN Regulations for retro-reflective devices (R3, R27, R70, R104)	TRIAS 38(2)-R070-01 Harmonised with UN R70 Ordinance No 40 Announcement No 714	
Safety	Retro-reflective marking Adoption of R150, integrating UN Regulations for retro-reflective devices (R3, R27, R70, R104)	TRIAS 38(3)-J105R104-01 Harmonised with UN R104 Ordinance No 40 Announcement No 714	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Backup lamp Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 40-J072R023-01 Harmonised with UN R23 Ordinance No 40 Announcement No 714	
Safety	Direction-indicator lamp Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 41-J073R006-01 Harmonised with UN R6 Ordinance No 40 Announcement No 714	
Safety	Testing of rear retro-reflectors Adoption of R150, integrating UN Regulations for retro-reflective devices (R3, R27, R70, R104)	TRIAS 38-J068R003-01 (2013) Harmonised with UN R3 Ordinance No 40 Announcement No 714	No
Safety	Testing of braking lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 39-J070R007-01 (2012) Harmonised with UN R7 Ordinance No 40 Announcement No 714	No
Safety	Testing of additional brake lamps Adoption of R148, integrating UN Regulations for light signalling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 39(2)-J071R007-01 (2012) Harmonised with UN R7 Ordinance No 40 Announcement No 714	No
Safety	Testing of reversing lamps	TRIAS 40-J072R023-02 (2012) Harmonised with UN R23	No
Safety	Testing of direction indicator lamps	TRIAS 41-J073R006-02 Harmonised with UN R6	No
Safety	Rear upper-end lamp Adoption of R148, integrating UN Regulations for light signaling devices (R4, R7, R23, R38, R50, R77, R87, R91)	TRIAS 37(4)-J067R007-01 Harmonised with UN R7 Ordinance No 40 Announcement No 714	
Safety	Requirement for headlamp cleaning systems	TRIAS 32-J055-R045-01 TRIAS 32-J056-R045-01	No
Safety	Requirement for safety glass	TRIAS 29-R043(1)-02 TRIAS 29-R043(2)-01 Harmonised with UN R43	No
Technical	Testing of windscreen wipers and washers	TRIAS 45-J084-01 (2012) TRIAS 45-J085-01	No
Safety	Requirement for the driver's forward field of vision Adoption of UN-R125: Passenger cars with 9 persons or less	TRIAS 21-R125-01 Harmonised with UN R125	No

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for rear-view mirrors	TRIAS 44-R046(1)-01	No
	Requirement for rear-view mirrors and their mounting	TRIAS 44-R046(2)-02 Harmonised with UN R46	No
	Requirement for rear-view mirrors	TRIAS 44-R046-xx (2021)	No
Safety	Requirement for CMS (camera monitoring system)	TRIAS 44-R046(1-2)-01 Harmonised with UN R46	No
Technical	Requirement for in-vehicle display systems (Human Machine Interface)	JAMA Guidelines for In-vehicle Display Systems - Vers 3.0	No
Technical	Requirement for eCall systems	TRIAS 43(8)-R144-01 (2021)	No
Technical	Hydrogen Fuel Cell Vehicles (HFCV) Requirements for passenger cars with GVW less than 4,540kg, fuelled by compressed hydrogen gas, are harmonised UN GTR	TRIAS 17-J100-01 17-GTR013(1)-01 17-GTR013(2)-01 Announcements No 126 and 127 Announcement No 1048	
Technical	Hydrogen Fuel Cell Vehicles Apply UN R134 as requirements for HFCV (however, materials used for a tank should always meet the KHK standards)	TRIAS 17-R134(1)-01 (2018) TRIAS 17-R134(2)-01 (2018) TRIAS 17-R134(3)-01 (2018) Ordinance No 50 Announcements No 853 and 854 Kokujigi No 57-2 Harmonised with UN R134	
Safety	External projection The requirement $R \geq 2.5$ shall not apply to the posterior part of the bonnet or the edge of the panel located at the anterior end of the trunk	TRIAS 18-J020R026-01 TRIAS 18-J021R026-01 TRIAS 18-J022R026-01 Harmonised with UN R26 Announcement No 872	
Technical	Speedometer and odometre	TRIAS 46-J088R039-02 Harmonised with UN R39	
Technical	Tachographs	TRIAS 48(2)-J089-01	
Technical	Speed indication devices	TRIAS 48(3)-J090-01	
Technical	Tyre Run flat tyre Three-wheeler added for exempted vehicles Application extended to include trucks with GVW of 3.5t or more Abolish Technical Standards Attachment 3 and quote UN R30: Category M1 Abolish Technical Standards Attachment 3 and quote UN R30: Category N1	TRIAS 09-J003R30-01 Announcements No 1437 and 1438 Announcement No 89 Announcement No 206 Announcement No 68 Announcements No 1048 and 1049 Kokujikan No 136-2 Announcement No 88 Announcement No 147 Announcement No 1175 Announcement No 52 Harmonised with UN R30	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Horns	TRIAS 43-J074R028-01 TRIAS 43-J075R028-01 TRIAS 43-R028(1)-01 TRIAS 43-R028(2)-01 Harmonised with UN R28	
Technical	Axle weight, etc (Increase in the maximum axle load allowed for tractors having two axles)	Ordinance No 18 Announcement No 459	
Technical	Tyre Three-wheeler added for exempted vehicles Application extended to include trucks with GVW of 3.5t or more	TRIAS 09-J004R54-01 Announcement No 89 Announcement No 206 Announcement No 68 Announcement No 42 Announcements No 1048 and 1049 Kokujikan No 136-2 Announcement No 226 Announcements No 88 and 89 Announcement No 147 Announcement No 1395 Harmonised with UN R54	
Technical	Light alloy wheel ISO standardisation	TRIAS 09-J002-01 Announcement No 869	
Technical	Locking device	TRIAS 11(2)-J007R018R116-01 Ordinance No 85 Announcement No 1217 Announcement No 826 Announcement No 126 Announcement No 714 Harmonised with UN R18	
Technical	Immobilizer Voluntary installation EMC test should be conducted based on R10 / 04: Vehicles with electric motors that can be charged by external power supply EMC test should be conducted based on R10 / 04: Vehicles other than those with electric motors that can be charged by external power supply Technical Standards Attachment 9: Replace "Attachment 10" with "R13" EMC test should be conducted based on R10 / 05 ·Addition of devices using telecommunication line to the definition of locking devices; however, hardware designed and manufactured by non-vehicle manufacturers, such as smartphones, is excluded from the devices using telecommunication lines. ·When using the devices that use telecommunication lines for the key, it is necessary to prove that appropriate measures are taken to prevent serious problems due to unauthorized activities of programs, etc.	TRIAS 11(2)-J009R097R116-01 Announcements No 1203 and 1204 Announcements No 725 and 726 Announcement No 826 Announcements No 975 and 976 Announcement No 714 Harmonised with UN R97	

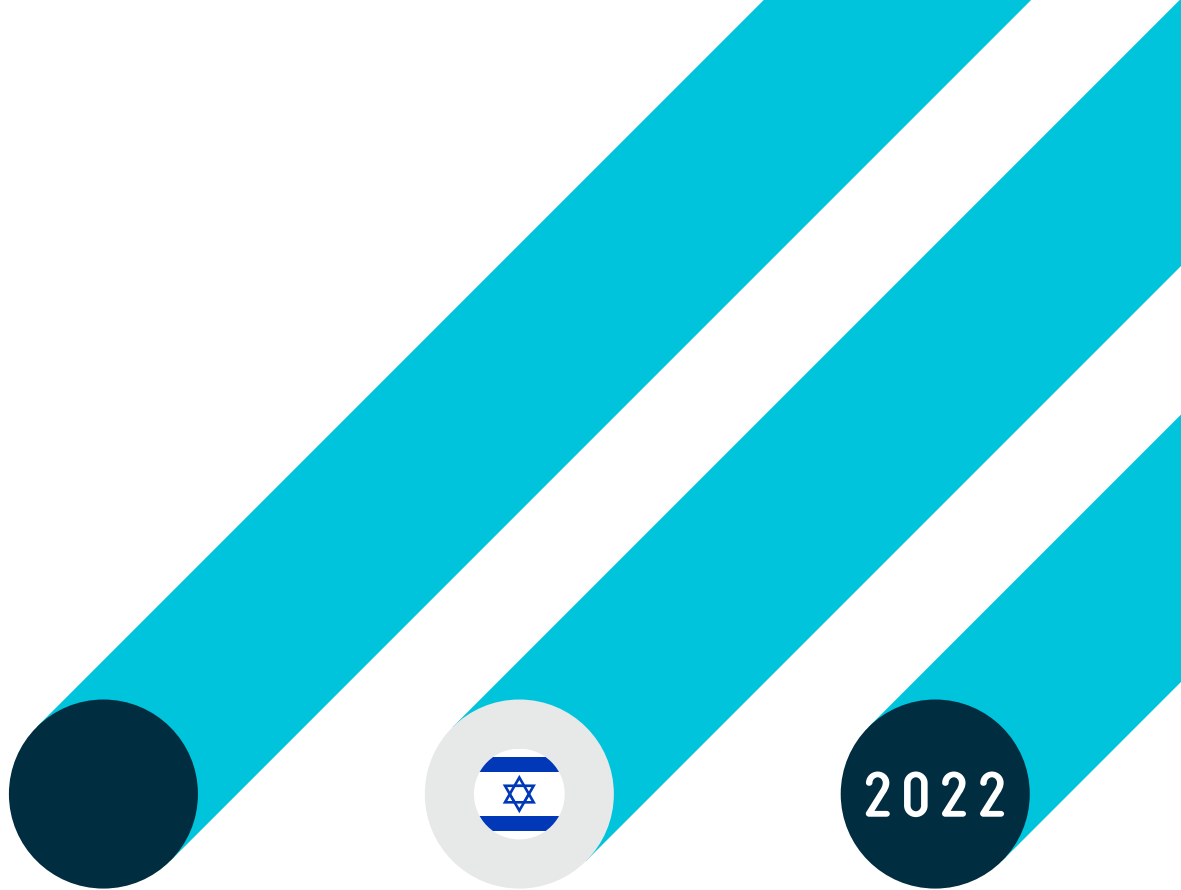
Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Brake system (for tractors)	TRIAS 12-J012R013H-01 TRIAS 12-J015-01	
Technical	Requirement for acoustic signals	TRIAS 43-J074-R028-01	No
Technical	Testing of sound pressure of acoustic warning devices (fanfare)	TRIAS 43-J075-R028-01	No
Technical	Requirements for safety glass and glazing materials	TRIAS 29-J037-01	No
Environment	Verification of copper emissions in SCR catalyst systems	Kokuikkan No 91 (2013)	No
Environment	Verification of exhaust emissions of light and medium-duty vehicles	TRIAS 31-J042(4)-02 (2020)	
Environment	Verification of the light absorption coefficient of the exhaust gas emitted under free acceleration at no-load. Opacimeter	TRIAS 31-J109-01	No
Environment	Verification of evaporation emissions (10-15 mode)	TRIAS 31-J049(1)-01	No
	Verification of evaporation emissions (JC08-Mode)	TRIAS 31-J049(2)-02	No
Environment	Requirement for OBD (petrol)	TRIAS 31-J048(2)	No
Environment	Requirement for OBD (diesel)	TRIAS 31-J048(3)	No
Environment	Requirement for EVAP test procedure	Safety Regulation Art 11-3-49 (2022)	No
Environment	Verification of stationary noise in the near field - Phase 1 Measurement method : Attachment 38 (MLIT Announcement 619 / 2002) - TRIAS 30-J038-01 TRIAS 30-J038-01 Testing of stationary noise in the near field TRIAS 30-J039-01 Testing of noise examination at constant speed TRIAS 30-J040-01 Testing of noise examination during acceleration	TRIAS 30-J038-01 TRIAS 30-J039-01 TRIAS 30-J040-01 (2016 / 2022)	
Environment	Requirement for exterior noise	TRIAS 30-R051-01	No
Environment	Testing of the acoustic system warning of approaching vehicles	TRIAS 43(7)-R138-02 (2020) Harmonised with UN R138	
Environment	Monitoring fuel consumption, Basis JC08	Energy Conservation Law (2020)	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Fuel efficiency requirement	Guideline Regarding FE	No
Environment	Test method for fuel consumption (WLTP and JC08)	TRIAS 08-002-02 Attachment 42Article 41 (2020)	
Environment	Requirement for combustion engines	TRIAS 08-R085-01 TRIAS 99-014-01 (Benzin) TRIAS 99-015-01 (Diesel) TRIAS 99-017-02 (E-Motor) (2011)	No
Environment	Completion inspection	MLIT Ordinance No 85 MLIT Announcement No 1168 (2019)	
Environment	Requirement for COP for fuel consumption	TRIAS 31-J042(2)-01 TRIAS 31-J042(3)-01 (2016)	
Environment	Ban of mercury usage	METI & MOE Regulation (2018)	
Environment	Fuel Standards Diesel: Sulfur contained (0.005% → 0.001%) Gasoline: Sulfur contained (0.005% → 0.001%) E10 gasoline (Ethanol: over 3 volume % and 10 volume % or less; oxygen content: over 1.3 mass % and 3.7 mass % or less, etc)	Announcement No 1513 Announcement No 384	
Environment	Engine and powertrain system	TRIAS 08-J001-01 TRIAS 08-001-01, 08-002-01 TRIAS 08-003-01, 08-003(1)-01 TRIAS 08-004-01, 08-005-01 TRIAS 08-006-01, 08-007-01 TRIAS 08-R085-01 Harmonised with UN R85	
Environment	Addition of regulations on fuel efficiency and electric energy efficiency to Safety Regulations for Road Vehicles Due to adoption of UN-R0 (IWVTA), UN-R85 is adopted as procedure for measuring engine output. Improvement of charge-air-cooled engine measurement procedure	Ordinance No 67 Announcement No 619 Ordinance No 16 Announcement No 465 Announcement No 52	
Environment	Gas emission for light-duty vehicles (3.5t or less)	TRIAS 31-J042(2)-03 TRIAS 31-J042(3)-03 TRIAS 31-J042(4)-01 TRIAS 31-J119-01	
Environment	Gas emission for middle and heavy-duty vehicles (more than 3.5t) (including OCE requirements)	TRIAS 31-J041(4)-01 TRIAS 31-J041(4)-02 TRIAS 31-J116-01	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Fuel System Addition of E10 gasoline specs to 'Properties of Reference Fuel' Correction of standards for 50% distillation temperature to «Properties of Reference Fuel»	TRIAS 15-J016-01 TRIAS 15-J017-01 Announcement No 985	
Environment	Fuel System Addition of E10 gasoline specs to 'Properties of Reference Fuel' Correction of standards for 50% distillation temperature to 'Properties of Reference Fuel' Fuel System Application of UN-R34 / 03 (Requirements for fuel tanks and pipes for automobiles and requirements for prevention of fuel leak from fuel tanks and pipes for passenger cars less than 10 people and with GVW of less than 2.8t and trucks with GVW of less than 2.8t) Add requirements for fuel leak on collision by UN-R137, R94, R95 and R135 to the Details Announcement Article No 18, Paragraph No 2 Change in vehicle speed for crash test in Annex 4 (38km/h → 48-52km/h) Revision to prepare provisions relating to fuel tank protection in three official languages (French, English and Russian)	TRIAS15-R034(1)-01 TRIAS 15-R034(2)-01 Announcement No 985 15-R034(1)-01, 15-R034(2)-01 Ordinance No 47 Announcements No 723 and 724 Kokujigi No 47-2 Announcements No 826 and 827 Announcement No 1121 Announcement No 68	
Environment	Restriction of refrigerant in air conditioning systems	Fluorocarbons Control Act Art 64 / 2001 (2023)	
Environment	Requirement for safety and geometry of exhaust outlet pipes	MLIT Announcement No 619 of 15.07.2002	No
Mixed	Verification of measurement of specifications Vehicle weight	TRIAS 02-001-01 (2012)	No
Mixed	Verification of measurement of specifications Dimensions	TRIAS 02-001-01 (2012)	No
Mixed	Requirement for speedometer (including installation)	TRIAS 46-J088-R039-02	No
Mixed	Embossing / Instamping of the vehicle identification number (eg bleach / aluminium sample with letters and numbers inserted)	Road Vehicles Act Art 29 - 32 (Law 185 / 1951) (2012)	No
Mixed	Requirement for the fitting and mounting angle of the registration plates, their presentation and form	Road Vehicles Act Art 7, 8-2, 11 (Ord. 74 / 1951)	No
Mixed	Requirement for testing of electric drive of vehicles	TRIAS 17(2)-R100(1)-01	No
Mixed	Requirement for testing of electric drive components of vehicles	TRIAS 17(2)-R100(2)-01	No

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Testing of electromagnetic compatibility (Regulation No 10) (Vehicle and electrical / electronic sub-assembly (ESA))	TRIAS 17(2)-R010-01 Harmonised with UN R10	No
Mixed	Verification of motor vehicles fuel systems fuelled with compressed hydrogen (Regulation No 134)	TRIAS 17-R134(1)-01 (2018)	
Safety	Verification of fuel tank leak tightness in the event of impact etc, of motor vehicles fuelled by compressed hydrogen	TRIAS 17-R134(2)-01 Harmonised with UN R134	
Safety	Verification of motor vehicles fuel systems fuelled by compressed hydrogen (Regulation No 134 (installation and strength))	TRIAS 17-R134(3)-01 Harmonised with UN R134	
Safety	CNG Vehicles	TRIAS 17-R110(2)-01 Harmonised with UN R110	
Environment	On-board fuel and/or energy consumption monitoring device	Outline of draft legislation for OBFCM (Draft partial amendments of "Public Notice that Prescribes Details of Safety Regulations for Road Transport Vehicles", etc.) G/TBT/N/JPN/692	
Technical	ePTI	ISO 20730	
Mixed	Mutual acceptance of vehicles and parts covered by UN Regulations	EU-Japan Economic Partnership Agreement (Annex 2-C Motor vehicles and parts)	
Safety	Cybersecurity (Regulation No 155)	TRIAS not confirmed Ordinance No 100, Announcement No 1577, Kokujiki No 127-2 Harmonization with UN 155	
Safety	Software update (Regulation No 156)	TRIAS not confirmed Ordinance No100, Announcement No1577, Kokujiki No127-2 Harmonization with UN 156	
Safety	Rear-end collision (Regulation No 153)	TRIAS not confirmed Ordinance No 100, Announcement No 1577, Kokujiki No 127-2 Harmonization with UN 153	
Safety	Devices for means of rear visibility or detection (Regulation No 158-01)	TRIAS 44(2)-R158-01 Ordinance No 40, Announcement No 521, Kokujiki No 11-2 Harmomization with R158-01	
Safety	Automated Driving Systems (Regulation No 157-01)	TRIAS 48-J122-01, 48-J123-01, 48-R157-01 Ordinance No 100, Announcement No 463, Kokujiki No 127-2 Harmonization with UN 157-01	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Vehicle exhaust emission	Ordinance No 50, Announcement No 1084(2021) Harmonization with UN 154	
Safety	On-board fuel and/or energy consumption monitoring device	Announcement No 521(2021) Kokujigi No 151, Kokujikan No 134	
Radio	Radio devices (MIC type approval)	Radio law	
		Ordinance regulating radio equipment	
		Ordinance on technical standards conformity certification of specified radio equipment	



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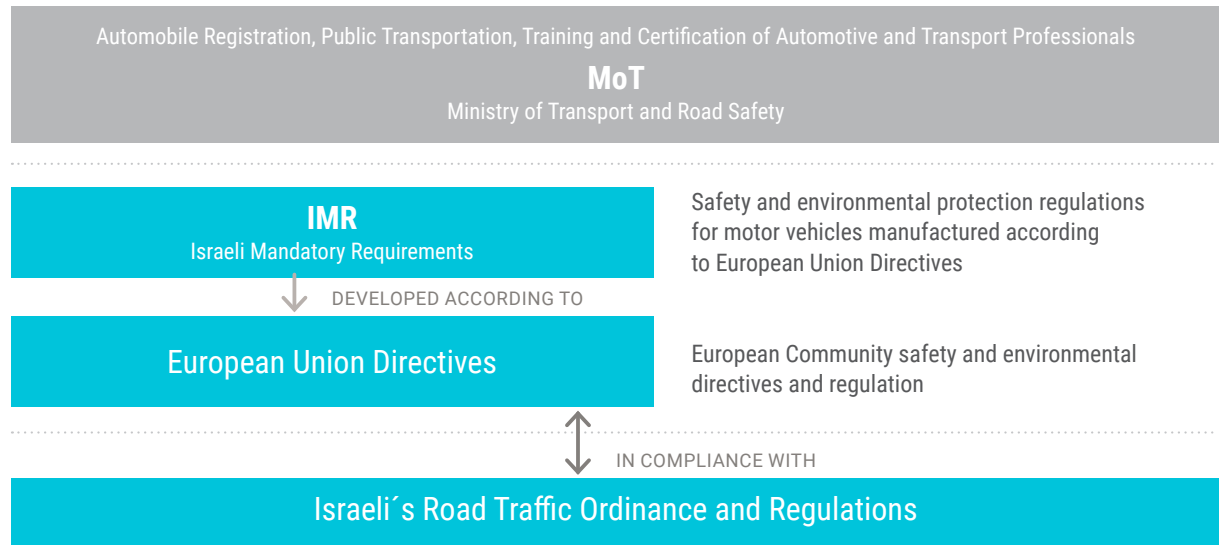


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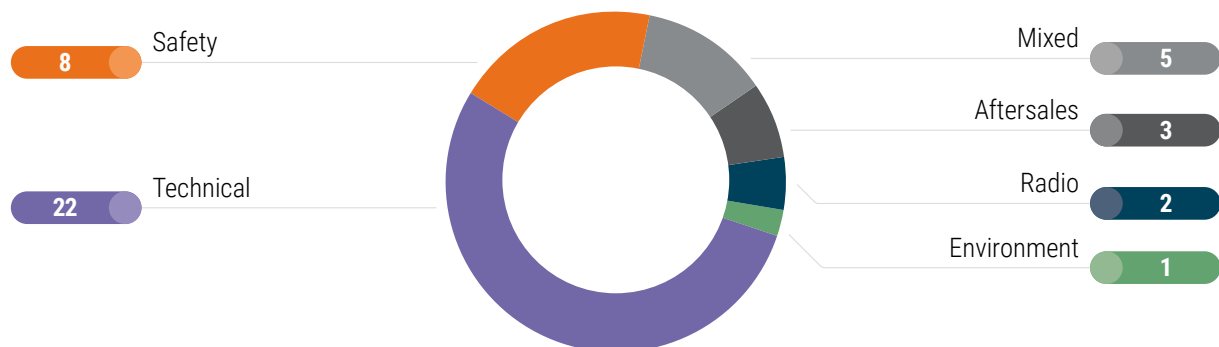
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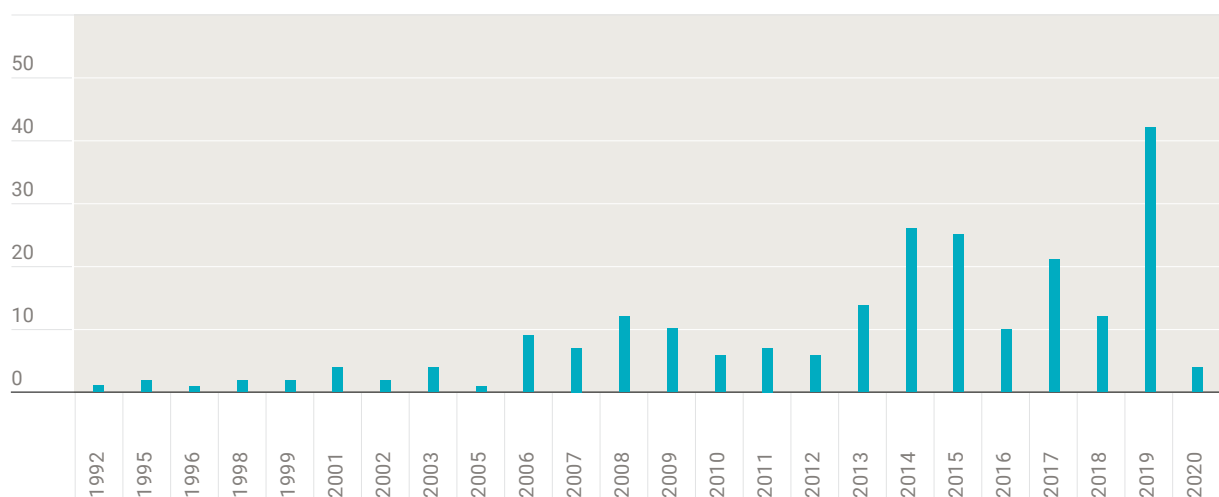
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Flammability of interior materials or burning behaviour of materials used in the interior construction (M, N category)	(EC) No 661 / 2009 ECE118 FMVSS 302 amended by (EU) No 2019 / 543	
Safety	Head restraints of seats (N1, N2 category)	Israeli Road Traffic Ordinance and Regulations – §355 (c)	
Safety	Safety chains (O category)	Israeli Road Traffic Ordinance and Regulations – §375	
Safety	Devices to prevent unauthorised use (Anti-Theft, Immobilizer and Alarm system) (M, N category)	74 / 61 / EEC	
	Devices to prevent unauthorised use (Anti-Theft, Immobilizer And Alarm System) (M1, N1 category)	ECE 116	
	Devices to prevent unauthorised use (Anti-Theft, Immobilizer and Alarm system) (M2, M3, N2, N3 category)	ECE 18	
Safety	Retarder (Endurance Braking System) (M3, N2, N3 category)	(EC) No 661 / 2009 ECE 13 amended by Commission Regulation (EU) 2019 / 543	
Technical	Recording equipment in road transport (Tachograph) (M3, N2, N3 category)	3821 / 85 / EEC 165 / 2014 / EEC amended by (EU) 2016 / 130, (EU) No 2018 / 502	
Technical	On-Board Weighing (OBW) (M2, M3, N2, N3, O3, O4 category)	Directive 96 / 53 / EC Amended by Regulation (EU) 2019 / 1213	
Technical	Retractable axle (N2, N3, O4 category)	(EC) No 661 / 2009 amended by 1230 / 2012 / EC	
Technical	Electronic Stability Control (ESC) Systems (M, N, O3, O4 category)	(EC) No 661 / 2009 ECE 13 ECE 13H	
Technical	Temporary use of spare wheel and tyre unit and run flat tyres (M1, N1 category)	ECE 64	
Safety	Tank vehicle rollover stability (N2, N3, O3, O4 category)	ECE 111	
Technical	Fuel type Unleaded gasoline (M, N category)	Israeli Std 90 Part 2	
	Fuel type Diesel engines (M, N category)	Israeli Std 107 Part 1	
Technical	Air conditioner (M, N category)	Israeli Road Traffic Ordinance And Regulations 364 (c)	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Electrical connectors of towing and towed vehicles (15 Pole) (N2, N3, O3, O4 category)	ISO 12098	
	Electrical connectors of towing and towed vehicles (13 Pole) (M, N category)	ISO 11446	
Technical	ABS electrical connection (N2, N3, O3, O4 category)	ISO 7638	
Technical	Air dryer on brake system (M3, N2, N3 category)	Israeli Requirement	
Safety	Distribution of braking effort among vehicle axles according to axle load (N2, N3, O3, O4 category)	(EC) No 661 / 2009 ECE-13, amended by 2013 / 15 / EU	
Technical	Buses – Additional requirement (M2, M3, N3 category)	Israeli Mandatory Requirements for Buses (IMRFB) 08919318 June 2018	
Technical	Rear window defroster (M1 category)	Israeli Road Traffic Ordinance and Regulations – §357 (A)	
Technical	Fenders (Wings) (O1, O2 category)		
Technical	Automotive air brake line couplers (N2, N3, O3, O4 category)	SAE J318 ISO 1728	
Technical	Reversing – Buzzer (M2, M3, N3, O4 category)	SAE J994 JSAE JASO D901	
Technical	Vehicle Identification Number (VIN) (M, N category)	ISO 3779	
Safety	Motor vehicles and trailers intended for the transport of dangerous goods (N, O3, O4 category)	(EC) No 661 / 2009 ECE 105	
Technical	Automotive Compressed Natural Gas (CNG) - quality specification (M, N category)	Israeli Std 6119	
Technical	Speed limiter (M3, N2, N3 category)	Israeli Road Traffic Ordinance and Regulations – §364e	
Technical	Electric vehicles Electric vehicle conductive charging system : general requirements (M, N category)	Israeli standard 61851-1	
Technical	Electric vehicles Electrical cord extension set used for the connection between the vehicle and the charging station (M, N category)		
Technical	Plug-in hybrid vehicles Electric vehicle conductive charging system: general requirements (M, N category)	Israeli standard 61851-1	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Plug-in hybrid vehicles Electrical cord extension set used for the connection between the vehicle and the charging station (M, N category)		
Environment	Electric vehicles Energy consumption and range (M1, N1 category)	ECE 101	
Mixed	Type approval of motor vehicles and their trailers (M, N, O category)	2007 / 46 / EC amended by (EC) No 661 / 2009	
	Type approval of motor vehicles and their trailers (M, N, O category)	(EU) 2018 / 858 amended by (EC) No 661 / 2009 up to (EU) No 2019 / 2144	
Mixed	Electric vehicles External identification markings (in addition to the markings displayed by the manufacturer) (M, N category)		
Mixed	Plug-in hybrid vehicles External identification markings (in addition to the markings displayed by the manufacturer) (M, N category)		
Mixed	Safety requirements for vehicles manufactured according to EU law	IMR 006477 - Israeli Mandatory Requirements for vehicles manufactured according to EU Directives – calendar year 2022	
Mixed	Requirements for vehicles category M2 and M3	006490 - Additional Mandatory Requirements for Buses in Categories M2 M3 – calendar year 2022	
Aftersales	Import rules for several products relevant for automotive including: brake fluid, lead-acid battery, car multimedia	Import and export decree (Import Groups), 5721-2021	Yes
Aftersales	Lead-acid starter batteries: General requirements and methods of test	SI 60095 (mandatory standard)	Yes
Aftersales	Marking requirements in Hebrew	Consumer Protection Law	Yes
Radio	Import of wireless equipment	Wireless Telegraph Ordinance (new version), 5732-1972	Yes
Radio	Ministry of Communications rules for certification (and exemption) of wireless equipment	Wireless Telegraph Regulations (Exemption from Licensing), 5781 – 2020 ("Exemption from Licensing Regulations") Draft Wireless Telegraph (Modification Certificates) Regulations, 5781 – 2020 ("Modification Certificates Regulations")	Yes



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MINISTRY AND REGULATORY AUTHORITIES

SEMARNAT

Ministry of Environment and Natural Resources

SENER

Secretaría de Energía

SCT

Secretariat of Communications and Transportation

SE

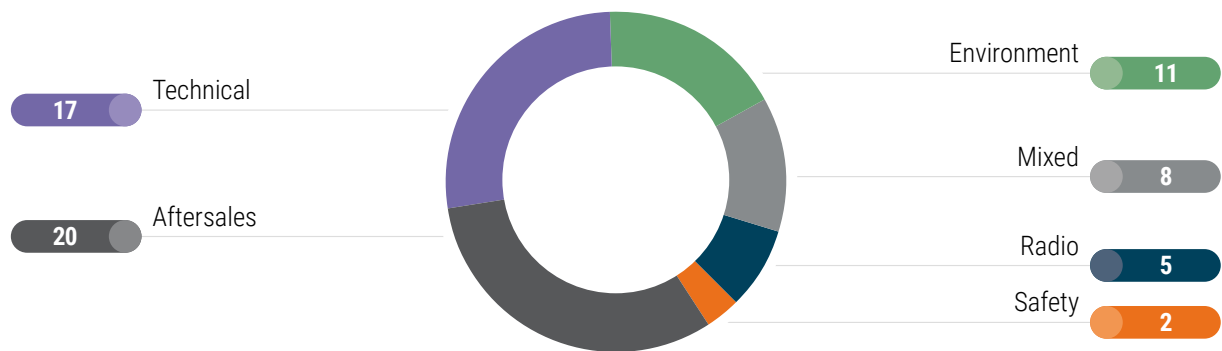
Secretaría de Economía

IFT

The Federal Telecommunications Institute

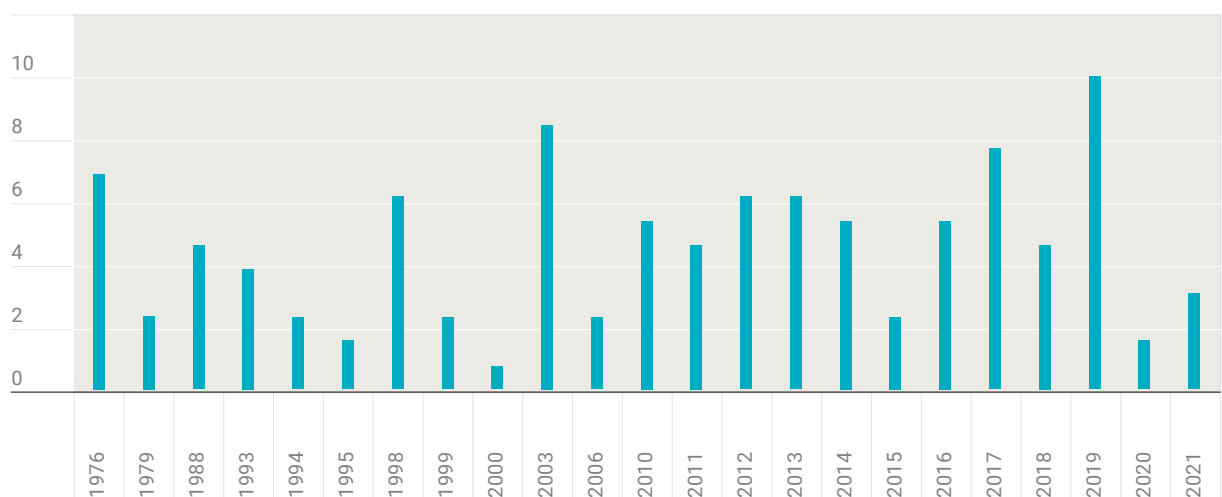
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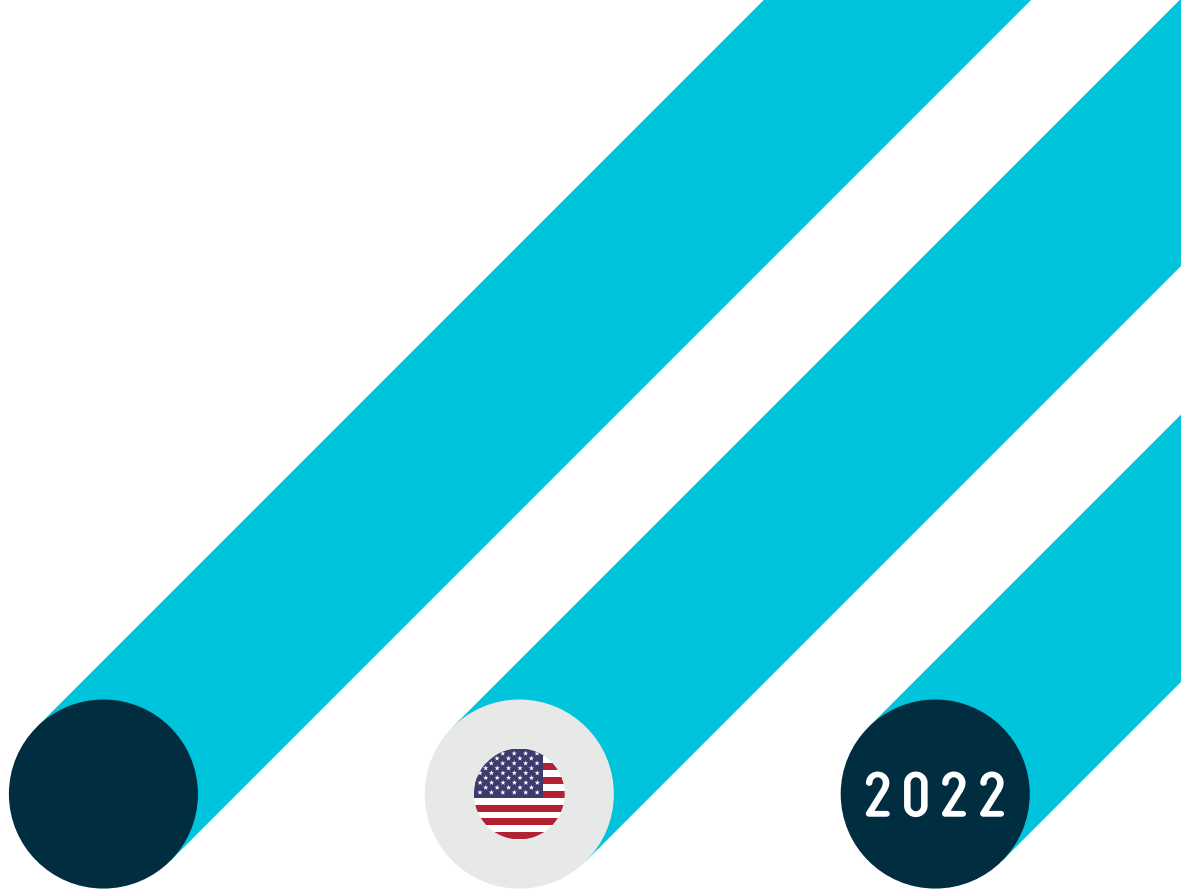


Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Essential safety devices in new vehicles / safety specifications	NOM-194-SCFI-2015	
Safety	New light vehicle safety devices - requirements and specifications	PROY-NOM-194-SE-2021 G/TBT/N/MEX/502	
Technical	Weights and dimensions	NOM-012-SCT-2-2017	
Technical	Compressed natural gas for automotive use	NOM-011-SECRE-2000 NOTICE of 23/12/2014 about the authorisation for the use of an alternative technology for the fulfillment of the purposes of the Official Mexican Standard NOM-011-SECRE-2000	
Technical	Safety Specifications for Vehicles With GVW greater than 3,857kg Requirements and Specifications	PROY-NOM-000-SE-2020 (draft)	
Technical	Vehicular natural gas. Minimum safety requirements in-vehicle installations	PROY-NOM-234-SCFI-2019 (draft)	
Technical	Determination of the braking distance in vehicles up to 2,727kg	NMX-D-148-1979	
Technical	Motor carrier - car and light truck tyres - Specifications and test methods	NMX-D-136-CT-1988	
Technical	Rear view mirrors	NMX-D-156-1979	
Technical	Products for use in motor transport- exterior lights	NMX-D-233-IMNC-2016	
Technical	Road vehicles-electrical disturbances by driving and coupling	NMX-J-756-2-ANCE-2019	
Technical	Automotive industry-warning device-specifications and test methods	NMX-D-139-SCFI-2000	
Technical	Steering system in crash test	NMX-D-084-1976	
Technical	Technical specifications and test methods for rear fenders for vehicles with a design GVW greater than 4,536kg	PROY-NOM-014-SCT2-2019	
Technical	Trailers and semi-trailers - Safety specifications and test methods	NOM-035-SCT-2-2010 PROY-NOM-035-SCT-2-2018 (draft)	
Technical	Midibuses - passenger and mixed cargo - Safety and technical specifications	NOM-067-SCT-2/SECOFI-1999	
Technical	Speedometers and odometers	NMX-CH-074-1993-SCFI	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Rear bumpers for traditional buses and single-unit trucks with a GVW rating of over 4,536kg	PROY-NOM-014-SCT2-2019	
Technical	Physicomechanical conditions of vehicles with a GVW not exceeding 3,867kg	PROY-NOM-236-SE-2020	
Environment	Emissions levels for alternative fuel motor vehicles	NOM-050-SEMARNAT-2018	
Environment	Emissions - petrol, gas and alternative fuel vehicles over 3,857kg	NOM-076-SEMARNAT-2012	
Environment	Emissions levels for motor vehicles	NOM-167-SEMARNAT-2017	
Environment	Noise limits - new vehicles	NOM-079-SEMARNAT-1994	
Environment	Maximum permissible limits of emission of noise originating in the exhaust of automobiles	NOM-080-SEMARNAT-1994	
Environment	Carbon dioxide (CO2) emissions, applicable to new motor vehicles up to 3,857kg	NOM-163-SEMARNAT-ENER-SCFI-2013	
Environment	Emissions - petrol/gasoline powered vehicles	NOM-041-SEMARNAT-2015	
Environment	Maximum permissible in-vehicle limits for total hydrocarbons or non-methane, carbon monoxide, nitrogen oxides less than 3,857kg	NOM-042-SEMARNAT-2003	
Environment	Emissions - Diesel vehicles over 3,857kg	NOM-044-SEMARNAT-2017	
Environment	Vehicles in circulation that use diesel as fuel - Maximum permissible opacity limits	NOM-045-SEMARNAT-2017	
Environment	Fuel standards	NOM-016-CRE-2016	
Mixed	Fire extinguishers	NMX-D-227-SCFI-2000	
Mixed	Determination, Assignment and Installation of VIN	PROY-NOM-001-SEGOB2-2018	
Mixed	Warning devices	NMX-D-139-SCFI-2000	
Mixed	General product labelling	NOM-050-SCFI-1994	Yes
Mixed	Physical, mechanical and safety condition for operation of vehicles on general roads	NOM-068-SCT-2-2014	
Mixed	Partial recognition of EU / UNECE technical requirements for light vehicles (under 3,857kg)	EU-Mexico Free Trade Agreement (Annex Vehicles and their parts)	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Design characteristics and conditions of use of the Official NOM Marking	NOM-106-SCFI-2017	
Mixed	Commercial practices - Regulatory elements for the commercialisation of new vehicles	NOM-160-SCFI-2014	
Radio	Conformity assessment procedure for radio equipment	Telecommunication and broadcasting conformity assessment procedure 25/02/2020	Yes
Radio	Testing procedure for radio equipment in Mexico	Disposición Técnica IFT-008-2015	Yes
Radio	Radiocommunication equipment by frequency hopping and by digital modulation to operate in the bands 902 MHz-928 MHz, 2400 MHz-2483.5 MHz and 5725 MHz-5850 MHz	NOM-208-SCFI-2016	Yes
Radio	Specific absorption rate of telecommunication equipment	Disposición Técnica IFT-012-2019	Yes
Radio	Mobile terminal equipment operating in the 700 MHz, 800 MHz, 850 MHz, 1900 MHz, 1700 MHz/2100 MHz and/or 2500 MHz frequency bands	NOM-221/2-SCFI-2018	Yes
Aftersales	List of binding NOM standards relevant for a variety of products including e.g. vehicle electronics or radio spare parts	Agreement whereby the Ministry of Economy issues general rules and criteria regarding Foreign Trade – Annex 2.4.1 with amendments	Yes
		Agreement that modifies the diverse by which the Ministry of Economy issues general rules and criteria on foreign trade (Official Gazette of the Federation of 23.10.2018) standards relevant for a variety of products including vehicle electronics or radio spare parts	
		Agreement that modifies the diverse by which the Ministry of Economy issues general rules and criteria on foreign trade (Official Gazette of the Federation of 28.02.2019)	Yes
Aftersales	Characteristics and safety requirements of electronic equipment	NOM-001-SCFI-2018	Yes
Aftersales	Commercial information for packaging, instructions and guarantees of electronic, electrical and household appliances	NOM-024-SCFI-2013	Yes
Aftersales	Electrical products	NOM-003-SCFI-2014	Yes
Aftersales	Brake fluid	NOM-113-SCFI-1995	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Lubricating oils for gasoline and diesel engine	NOM-116-SCFI-2018	Yes
Aftersales	Energy efficiency of alternating current, single-phase, induction electric motors, squirrel cage type, cooled with air, in nominal power 0.180kW to 2.238kW	PROY-NOM-014-ENER-2020	Yes
Aftersales	Commercial information - Labeling of textile products (car mats, seat mats, seat belts)	NOM-004-SCFI-2006	Yes
Aftersales	Data processing equipment safety requirements (eg data plugs)	NOM-019-SCFI-1998 PROY-NOM-019-SE-2020	Yes
Aftersales	Valves for inner tubes and valves for rims utilized for tubeless type tyres	NOM-134-SCFI-1999	Yes
Aftersales	Maximum electrical power limits for equipment and appliances requiring standby power - Testing and labelling methods	NOM-032-ENER-2013	Yes
Aftersales	Measuring instruments – Manometers with elastic element -Specifications and testing methods	NOM-013-SCFI-2014	Yes
Aftersales	Seat belts	NOM-119-SCFI-2000	Yes
Aftersales	Radial tires	NOM-086-SCFI-2010 NOM-086-SCFI-2018	Yes
Aftersales	Tyres - trucks, vans, buses and trailers	NOM-086/1-SCFI-2011 PROY-NOM-086-1-SCFI-2018	Yes
Aftersales	Controllers for artificial light sources, with general lighting purposes-Safety specifications and test methods	NOM-058-SCFI-2017	Yes
Aftersales	Commercial information for packaging, instructions and warranties of electronic, electrical and household appliances	NOM-024-SCFI-2013	Yes
Aftersales	Pressure relief valves (safety, security-relief and relief) operated by spring and pilot; made of steel and bronze	NOM-093-SCFI-1994	Yes
Aftersales	Energy efficiency and user safety requirements for commercial refrigeration appliances	NOM-022-ENER/SCFI-2014	
Aftersales	Hydraulic bottle jacks - Safety specifications and test methods	NOM-114-SCFI-2016	



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NHTSA

National Highway Traffic Safety Administration

CALIFORNIA STATE BODY

CARB

California Air Resources Board

NON-GOVERNMENT STANDARDIZATION BODY

SAE International

Society of Automotive Engineers

US EPA

U.S. Environmental Protection Agency

RADIO

FCC

Federal Communications Commission

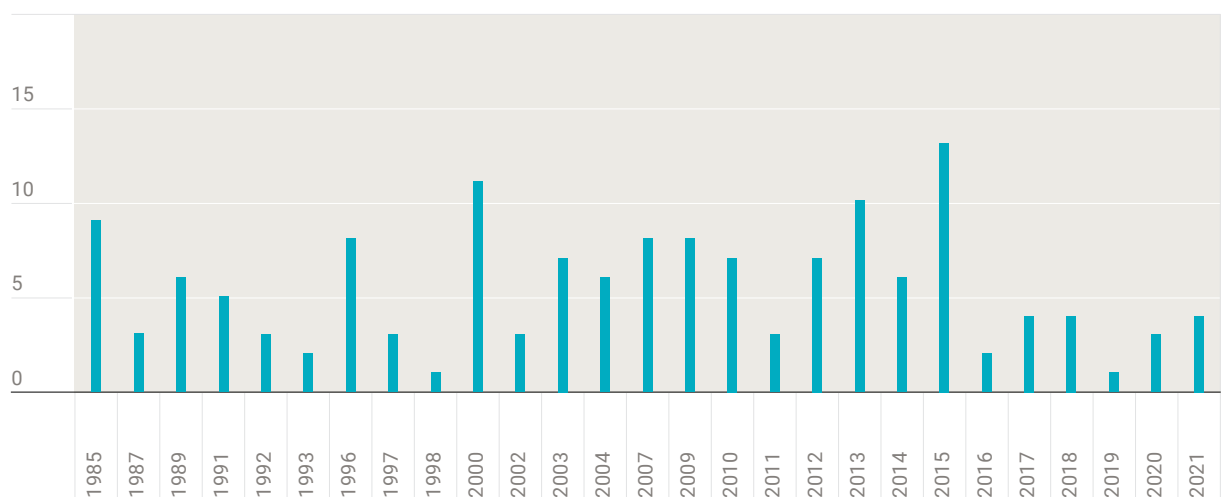
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Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Controls and displays	FMVSS 101	
Technical	Transmission shift position sequence, starter interlock, and transmission braking effect	FMVSS 102	
Safety	Windshield defrosting and defogging systems	FMVSS 103	
Safety	Windshield wiping and washing systems	FMVSS 104	
Safety	Hydraulic and electric brake systems	FMVSS 105	
Safety	Brake hoses	FMVSS 106	
Safety	Lamps, reflective devices, and associated equipment	FMVSS 108	
Technical	New pneumatic and certain specialty tyres	FMVSS 109	
Technical	Tyre selection and rims and motor home/ recreation vehicle trailer load carrying capacity information for motor vehicles with a GVWR of 4,536kg (10,000 pounds) or less	FMVSS 110	
Safety	Rear visibility	FMVSS 111	
Safety	Hood latch system	FMVSS 113	
Technical	Theft protection and rollaway prevention	FMVSS 114	
Safety	Motor vehicle brake fluids	FMVSS 116	
Technical	Retreaded pneumatic tyres	FMVSS 117	
Safety	Power-operated window, partition, and roof panel systems	FMVSS 118	
Technical	New pneumatic tyres for motor vehicles with a GVWR of more than 4,536kg (10,000Lb) and motorcycles	FMVSS 119	
Technical	Tyre selection and rims and motor home/ recreation vehicle trailer load carrying capacity information for motor vehicles with a GVWR of more than 4,536kg (10,000Lb)	FMVSS 120	
Safety	Air brake systems	FMVSS 121	
Safety	Accelerator control systems	FMVSS 124	
Safety	Warning devices	FMVSS 125	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Electronic stability control systems for light vehicles	FMVSS 126	
Technical	New non-pneumatic tyres for passenger cars	FMVSS 129	
Safety	School bus pedestrian safety devices	FMVSS 131	
Safety	Light vehicle brake systems	FMVSS 135	
Safety	Electronic stability control systems for heavy vehicles	FMVSS 136	
Technical	Tyres pressure monitoring systems	FMVSS 138	
Technical	New pneumatic radial tyres for light vehicles	FMVSS 139	
Environment	Minimum sound requirements for hybrid and electric vehicles	FMVSS 141	
Safety	Occupant protection in interior impact	FMVSS 201	
Safety	Head restraints	FMVSS 202a	
Safety	Impact protection for the driver from the steering control system	FMVSS 203	
Safety	Steering control rearward displacement	FMVSS 204	
Safety	Glazing materials	FMVSS 205	
Safety	Door locks and door retention components	FMVSS 206	
Safety	Seating systems	FMVSS 207	
Safety	Occupant crash protection	FMVSS 208	
Safety	Seat belt assemblies	FMVSS 209	
Safety	Seat belt assembly anchorages	FMVSS 210	
Safety	Windshield mounting	FMVSS 212	
Safety	Child restraint systems	FMVSS 213	
Safety	Side impact protection	FMVSS 214	
Safety	Roof crush resistance; Applicable unless a vehicle is certified to §571.216a	FMVSS 216	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Roof crush resistance; Upgraded standard	FMVSS 216a	
Safety	Bus emergency exits and window retention and release	FMVSS 217	
Safety	Windshield zone intrusion	FMVSS 219	
Safety	School bus rollover protection	FMVSS 220	
Safety	School bus body joint strength	FMVSS 221	
Safety	School bus passenger seating and crash protection	FMVSS 222	
Safety	Rear impact guards	FMVSS 223	
Safety	Rear impact protection	FMVSS 224	
Safety	Child restraint anchorage systems	FMVSS 225	
Safety	Ejection mitigation	FMVSS 226	
Safety	Fuel system integrity	FMVSS 301	
Safety	Flammability of interior materials	FMVSS 302	
Safety	Fuel system integrity of compressed natural gas vehicles	FMVSS 303	
Safety	Compressed natural gas fuel container integrity	FMVSS 304	
Safety	Electric-powered vehicles: electrolyte spillage and electrical shock protection	FMVSS 305	
Safety	Interior trunk release	FMVSS 401	
Safety	Platform lift systems for motor vehicles	FMVSS 403	
Safety	Platform lift installations in motor vehicles	FMVSS 404	
Safety	Low-speed vehicles	FMVSS 500	
Mixed	Vehicle classification	CFR Title 49: Chapter V Part 523	
Mixed	Vehicle classification	CFR Title 49: Chapter V Part 523.5	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Exemptions from average fuel economy Standards	CFR Title 49: Chapter V Part 525	
Mixed	Petitions and plans for relief under the Automobile Fuel Efficiency Act of 1980	CFR Title 49: Chapter V Part 526	
Mixed	Manufacturers of multistage automobiles	CFR Title 49: Chapter V Part 529	
Environment	Passenger automobile average fuel economy standards	CFR Title 49: Chapter V Part 531	
Environment	Light truck fuel economy standards	CFR Title 49: Chapter V Part 533	
Mixed	Rights and responsibilities of manufacturers in the context of changes in corporate relationships	CFR Title 49: Chapter V Part 534	
Environment	Medium- and heavy-duty vehicle fuel Efficiency program	CFR Title 49: Chapter V Part 535	
Environment	Transfer and trading of fuel economy credits	CFR Title 49: Chapter V Part 536	
Environment	Automotive fuel economy reports	CFR Title 49: Chapter V Part 537	
Environment	Manufacturing incentives for alternative Fuel vehicles	CFR Title 49: Chapter V Part 538	
Technical	Federal motor vehicle theft prevention standard	CFR Title 49: Chapter V Part 541	
Technical	Procedures for selecting light duty truck lines to be covered by the theft prevention standard	CFR Title 49: Chapter V Part 542	
Technical	Exemption from vehicle theft prevention standard	CFR Title 49: Chapter V Part 543	
Technical	Federal motor vehicle theft prevention Standard phase-in and small-volume line reporting requirements	CFR Title 49: Chapter V Part 545	
Mixed	Procedural rules	CFR Title 49: Chapter V Part 551	
Mixed	Petitions for rulemaking, defect, and noncompliance orders	CFR Title 49: Chapter V Part 552	
Mixed	Rulemaking procedures	CFR Title 49: Chapter V Part 553	
Mixed	Standards enforcement and defects investigation	CFR Title 49: Chapter V Part 554	
Mixed	Temporary exemptions from motor vehicle safety and bumper standards	CFR Title 49: Chapter V Part 555	

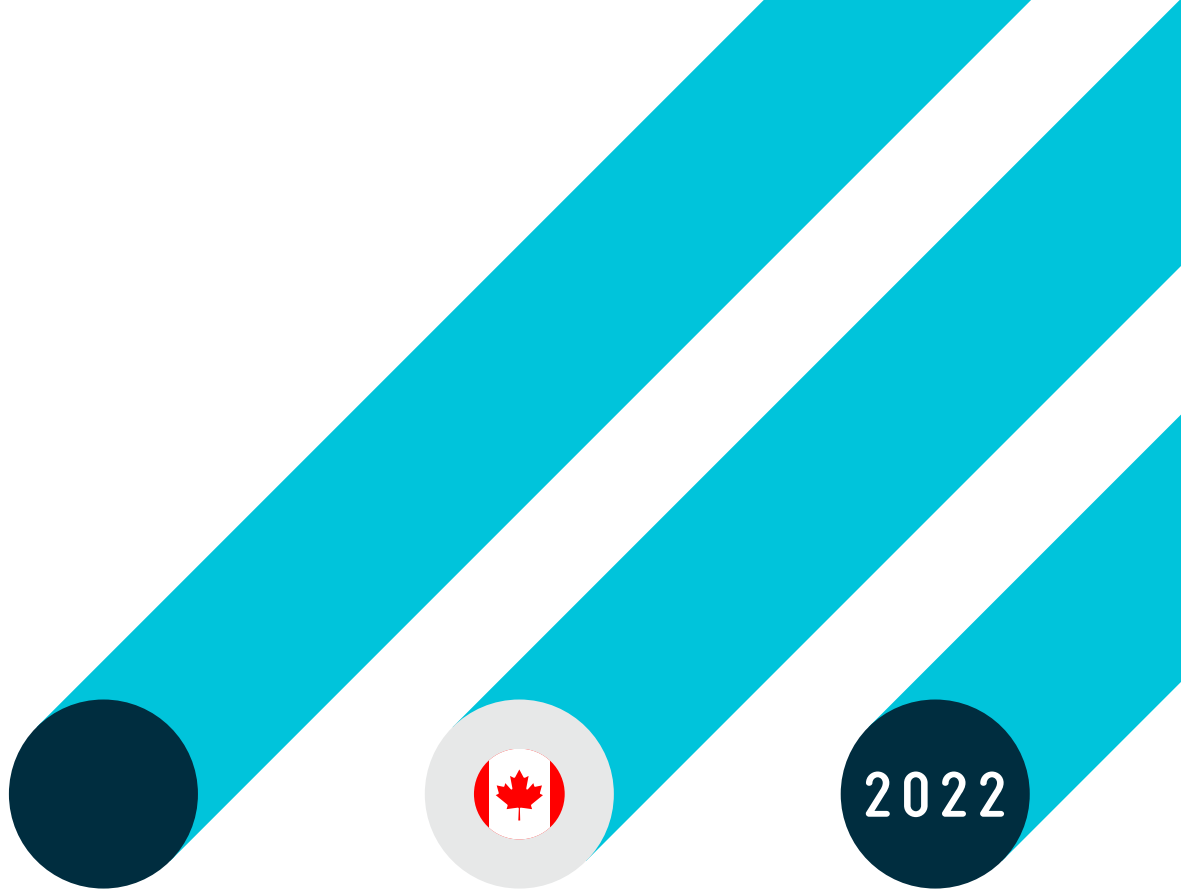
Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Temporary exemptions from motor vehicle safety and bumper standards	CFR Title 49: Chapter V Part 555	
Mixed	Exemption for inconsequential defect or noncompliance	CFR Title 49: Chapter V Part 556	
Mixed	Petitions for hearings on notification and remedy of defects	CFR Title 49: Chapter V Part 557	
Mixed	Lighting and marking of agricultural equipment	CFR Title 49: Chapter V Part 562	
Safety	Event data recorders	CFR Title 49: Chapter V Part 563	
Mixed	Replaceable light source and sealed beam headlamp information (eff. 12-1-09)	CFR Title 49: Chapter V Part 564	
Mixed	VIN requirements	CFR Title 49: Chapter V Part 565	
Mixed	Manufacturer identification	CFR Title 49: Chapter V Part 566	
Mixed	Certification	CFR Title 49: Chapter V Part 567	
Mixed	Vehicles manufactured in two or more stages	CFR Title 49: Chapter V Part 568	
Mixed	Regrooved tyres	CFR Title 49: Chapter V Part 569	
Mixed	Vehicle-in-use inspection standards	CFR Title 49: Chapter V Part 570	
Mixed	Federal motor vehicle safety standards	CFR Title 49: Chapter V Part 571	
Mixed	Anthropomorphic test devices	CFR Title 49: Chapter V Part 572	
Mixed	Defect and noncompliance responsibility and reports	CFR Title 49: Chapter V Part 573	
Mixed	Tyre identification and record keeping	CFR Title 49: Chapter V Part 574	
Mixed	Consumer information	CFR Title 49: Chapter V Part 575	
Mixed	Record retention	CFR Title 49: Chapter V Part 576	
Mixed	Defect and noncompliance notification	CFR Title 49: Chapter V Part 577	
Mixed	Civil and criminal penalties	CFR Title 49: Chapter V Part 578	
Mixed	Reporting of information and communications about potential defects	CFR Title 49: Chapter V Part 579	
Mixed	Odometer disclosure requirements	CFR Title 49: Chapter V Part 580	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Bumper standard	CFR Title 49: Chapter V Part 581	
Mixed	Insurance cost information regulation	CFR Title 49: Chapter V Part 582	
Mixed	Automobile parts content labeling	CFR Title 49: Chapter V Part 583	
Mixed	Phase-in reporting requirements	CFR Title 49: Chapter V Part 585	
Mixed	Deformable barriers	CFR Title 49: Chapter V Part 587	
Mixed	Child restraint system recordkeeping requirements	CFR Title 49: Chapter V Part 588	
Mixed	Importation of vehicles and equipment subject to federal safety, bumper, and theft prevention standards	CFR Title 49: Chapter V Part 591	
Mixed	Registered importers of vehicles not originally manufactured to conform to the federal motor vehicle safety standards	CFR Title 49: Chapter V Part 592	
Mixed	Determinations that a vehicle not originally manufactured to conform to the federal motor vehicle safety standards is eligible for importation	CFR Title 49: Chapter V Part 593	
Mixed	Schedule of fees authorized by U.S.C. 30141	CFR Title 49: Chapter V Part 594	
Mixed	Make inoperative exemptions	CFR Title 49: Chapter V Part 595	
Mixed	Requirements and procedures for consumer assistance to recycle and save act program	CFR Title 49: Chapter V Part 599	
Safety	Recommended practice for general fuel cell vehicle safety	SAE J2578	
Safety	Standard for fuel systems in fuel cell and other hydrogen vehicles	SAE J2579	
Safety	Compressed hydrogen surface vehicle fueling connection devices	SAE J2600	
Safety	Fueling protocols for light duty gaseous hydrogen surface vehicles	SAE J2601	
Safety	Hydrogen surface vehicle to station communications hardware and software	SAE J2799	
Radio	Radio frequency devices	CFR Title 47: Chapter I Part 15 Radio Frequency Devices (FCC)	
Environment	Corporate average fuel economy standards	Corporate average fuel economy standards for model years 2024-2026 passenger cars and light trucks	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Temporary exemptions from motor vehicle safety and bumper standards	CFR Title 49: Chapter V Part 555	
Mixed	Exemption for inconsequential defect or noncompliance	CFR Title 49: Chapter V Part 556	
Mixed	Petitions for hearings on notification and remedy of defects	CFR Title 49: Chapter V Part 557	
Mixed	Lighting and marking of agricultural equipment	CFR Title 49: Chapter V Part 562	
Safety	Event data recorders	CFR Title 49: Chapter V Part 563	
Mixed	Replaceable light source and sealed beam headlamp information (eff. 12-1-09)	CFR Title 49: Chapter V Part 564	
Mixed	VIN requirements	CFR Title 49: Chapter V Part 565	
Mixed	Manufacturer identification	CFR Title 49: Chapter V Part 566	
Mixed	Certification	CFR Title 49: Chapter V Part 567	
Mixed	Vehicles manufactured in two or more stages	CFR Title 49: Chapter V Part 568	
Mixed	Regrooved tyres	CFR Title 49: Chapter V Part 569	
Mixed	Vehicle-in-use inspection standards	CFR Title 49: Chapter V Part 570	
Mixed	Federal motor vehicle safety standards	CFR Title 49: Chapter V Part 571	
Mixed	Anthropomorphic test devices	CFR Title 49: Chapter V Part 572	
Mixed	Defect and noncompliance responsibility and reports	CFR Title 49: Chapter V Part 573	
Mixed	Tyre identification and record keeping	CFR Title 49: Chapter V Part 574	
Mixed	Consumer information	CFR Title 49: Chapter V Part 575	
Mixed	Record retention	CFR Title 49: Chapter V Part 576	
Mixed	Defect and noncompliance notification	CFR Title 49: Chapter V Part 577	
Mixed	Civil and criminal penalties	CFR Title 49: Chapter V Part 578	
Mixed	Reporting of information and communications about potential defects	CFR Title 49: Chapter V Part 579	
Mixed	Odometer disclosure requirements	CFR Title 49: Chapter V Part 580	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	General act on vehicle safety in the USA	49 U.S.C. Chapter 301 (National Traffic and Motor Vehicle Safety Act)	
Environment	Exhaust emissions	California Code of Regulations Title 13 Motor Vehicles Division 3 Air Resources Board	
Environment	Control of air pollution from mobile sources	40 CFR part 85	
Environment	Control of emissions from new and in-use highway vehicles and engines	40 CFR part 86	
Environment	Control of emissions from new and in-use heavy-duty highway engines	40 CFR part 1036	
Environment	Control of emissions from new and in-use heavy-duty highway engines	40 CFR part 1036	
Environment	Control of emissions from new heavy-duty motor vehicles	40 CFR part 1037	
Environment	New aftermarket diesel particulate filters (DPF)	California evaluation procedure for new after-market diesel particulate filters intended as modified parts for 2007 through 2009 model year on-road heavy-duty diesel engines	
Environment	Material compliance requirements for brake pads and shoes	Better Brake Rule, Chapter 173-901 WAC (Washington Administrative Code)	
Environment	Material compliance requirements for brake pads and shoes	California Motor Vehicle Brake Friction Material Law	
Environment	Procedure of exemption for aftermarket parts modifying the emissions performance	Procedures for the exemption of add-on and modified part(s) for on-road vehicles/engines	
Environment	Motor vehicle pollution control devices or systems	Vehicle Code of California, Section 27156	
Environment	Emissions	The California low-emission vehicle regulations for passenger cars, light-duty trucks and medium-duty vehicles	
Environment	On-board diagnostics	OBD II and associated enforcement regulations (sections 1968.2 and 1968.5, title 13, California Code of Regulations (CCR))	
Safety	General vehicle standards in California	California Vehicle Code (VEH)	
Environment	Law on modifications of emission performance of vehicles	EPA's 1974 "Interim Tampering Enforcement Policy."	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Greenhouse gas (GHG) emissions standards for light-duty vehicles for 2023 and later model years	Proposed Rule by the Environmental Protection Agency of 08/10/2021: Revised 2023 and later model year light-duty vehicle Standards	
Environment	Emissions	Low-Emission Vehicles (LEV) standard Zero-Emission Vehicles (ZEV) standard Minnesota	
Safety	Automated driving	Proposed rulemaking of NHTSA of 12.03.2020: Framework for automated driving system safety	
Mixed	Requirement for a label disclosing where the car was assembled	Buy American Act	
Mixed	Access for consumers to data relating to their motor vehicles	Right to Equitable and Professional Auto Industry Repair Act	
Mixed	Motor vehicle information	Motor Vehicle Information and Cost Savings Act	
Environment	GHG Standards for small volume manufacturers	Small volume manufacturers alternative GHG standards final determinations	
Environment	Fuel	Final Rule: The Safer Affordable Fuel Efficient (SAFE) vehicles for model years 2021-2026	
Environment	GHG emissions	Final Rule: light-duty vehicle greenhouse gas program technical amendments	
Environment	Fuel economy standards	Final rule: one national program on federal preemption of state fuel economy standards	



CANADA



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ISED

Innovation, Science and Economic Development Canada

Federal institution to foster a growing, competitive and knowledge-based Canadian economy and responsible for administering certain federal acts and regulations.

Transport Canada

Responsible for transportation policies and programs. It promotes safe, secure, efficient and environmentally-responsible transportation.

Transport Canada reports to Parliament and Canadians through the minister of Transport. It works with its portfolio partners, other government departments and jurisdictions, and industry to ensure that all parts of Canada's transportation system work well.

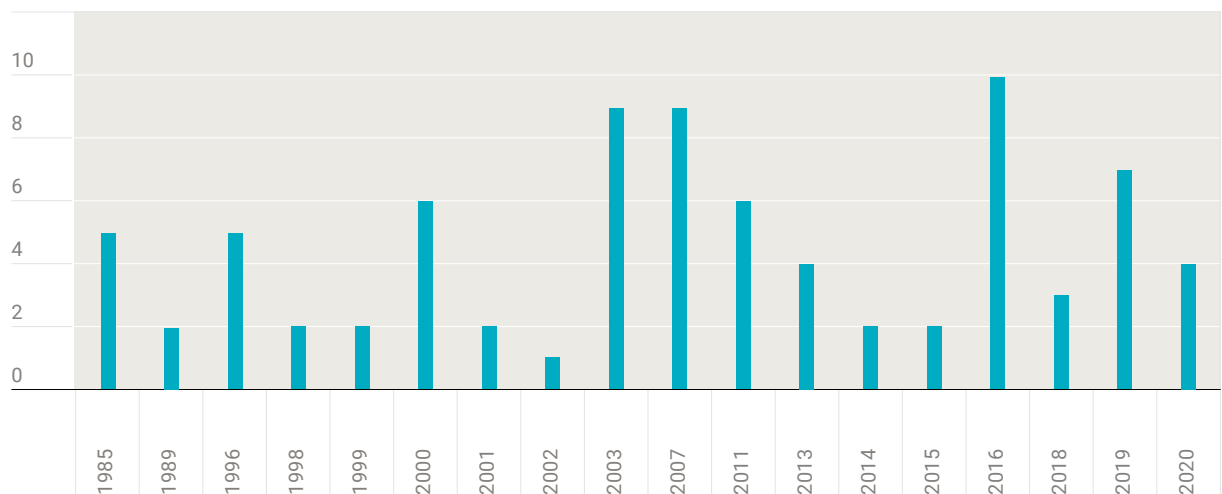
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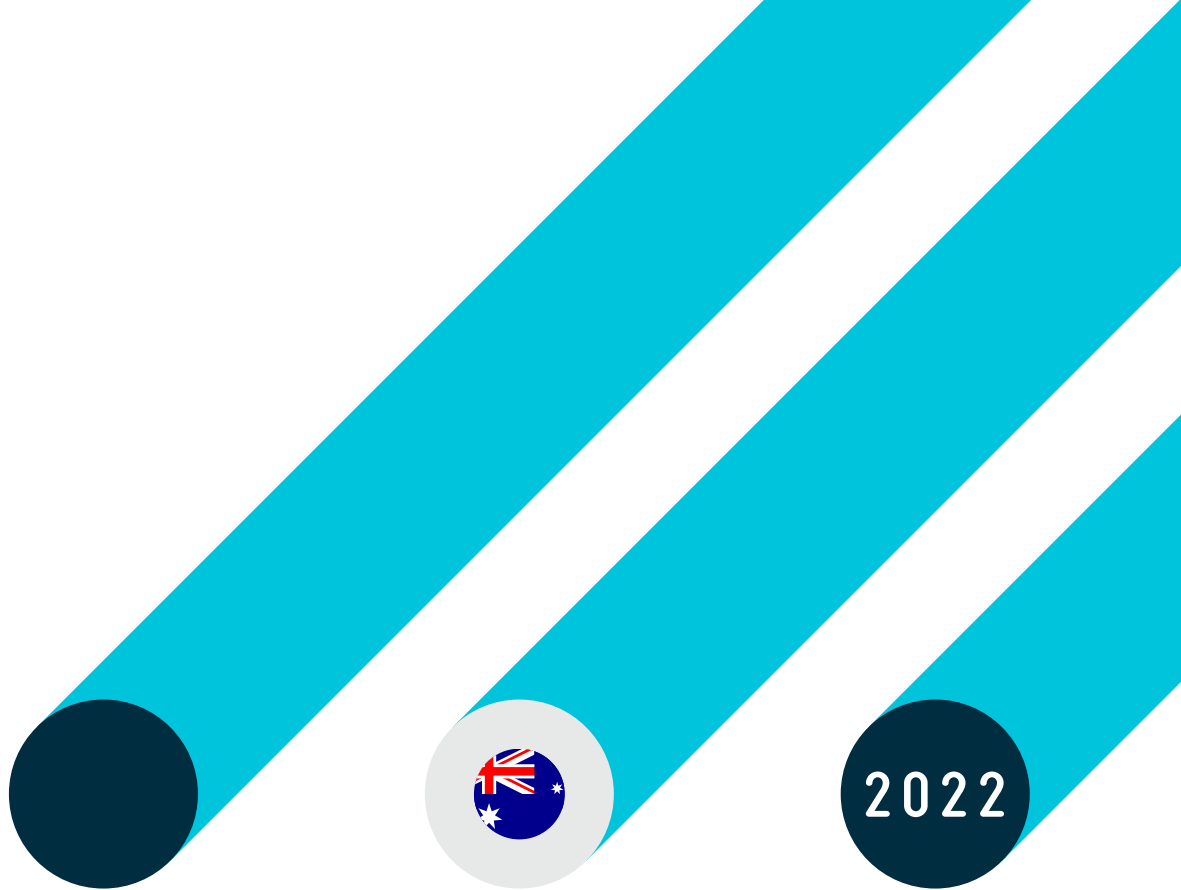


Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Controls, tell-tales, indicators and sources of illumination	CMVSS 101	
Technical	Transmission control functions	CMVSS 102	
Technical	Windshield defrosting and defogging	CMVSS 103	
Safety	Windshield wiping and washing system	CMVSS 104	
Safety	Hydraulic and electric brake systems	CMVSS 105	
Safety	Brake hoses	CMVSS 106	
Safety	Lighting systems and reflective devices	CMVSS 108	
Safety	Tyre selection and rims for motor vehicles with a GVW of 4,536kg or less	CMVSS 110	
Environment	Noise emissions	CMVSS 1106	
Safety	Mirrors and rear visibility systems	CMVSS 111	
Safety	Hood latch system	CMVSS 113	
Technical	Theft protection and rollaway prevention	CMVSS 114	
Mixed	Vehicle identification number	CMVSS 115	
Safety	Motor vehicle brake fluids	CMVSS 116	
Technical	Power-operated window, partition and roof panel systems	CMVSS 118	
Technical	Tyre selection and rims for motor vehicles with a GVW of more than 4,536kg	CMVSS 120	
Safety	Air brake systems	CMVSS 121	
Safety	Accelerator control systems	CMVSS 124	
Technical	Electronic stability control systems for light vehicles	CMVSS 126	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	School bus pedestrian safety devices	CMVSS 131	
Safety	Light vehicle brake systems	CMVSS 135	
Technical	Electronic stability control systems for heavy vehicles	CMVSS 136	
Safety	Occupant protection	CMVSS 201	
Safety	Head restraints	CMVSS 202	
Safety	Driver impact protection and steering control system	CMVSS 203	
Safety	Steering column rearward displacement	CMVSS 204	
Safety	Glazing materials	CMVSS 205	
Safety	Door locks and door retention components	CMVSS 206	
Safety	Anchorage of seats	CMVSS 207	
Safety	Occupant protection in frontal impacts	CMVSS 208	
Safety	Seat belt assemblies	CMVSS 209	
Safety	Seat belt anchorages	CMVSS 210	
Safety	User-ready tether anchorages for restraint systems and booster seats	CMVSS 210.1	
Safety	Lower universal anchorage systems for restraint systems and booster seats	CMVSS 210.2	
Technical	Windshield mounting	CMVSS 212	
Safety	Built-in restraint systems and built-in booster seats	CMVSS 213.4	
Safety	Side impact protection	CMVSS 214	
Safety	Bumpers	CMVSS 215	
Safety	Roof crush resistance	CMVSS 216	
Safety	Bus window retention, release and emergency exits	CMVSS 217	
Safety	Windshield zone intrusion	CMVSS 219	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Rollover protection	CMVSS 220	
Technical	School bus body joint strength	CMVSS 221	
Safety	School bus passenger seating and crash protection	CMVSS 222	
Safety	Rear impact guards	CMVSS 223	
Safety	Fuel system integrity	CMVSS 301	
Safety	LPG fuel system integrity	CMVSS 301.1	
Safety	CNG fuel system integrity	CMVSS 301.2	
Safety	Flammability of interior materials	CMVSS 302	
Safety	Electrolyte spillage and electrical shock protection	CMVSS 305	
Safety	Interior trunk release	CMVSS 401	
Technical	Low-speed vehicles	CMVSS 500	
Safety	Vehicle stability	CMVSS 505	
Technical	Axles	CMVSS 901	
Technical	C-dolly specifications	CMVSS 903	
Technical	C-dolly hitch requirements	CMVSS 904	
Technical	Trailer cargo anchoring devices	CMVSS 905	
Technical	Snowmobile trailers	CMVSS 906	
Environment	Sound requirements for hybrid and electric vehicles	Regulations amending the motor vehicle safety regulations (minimum sound requirements for hybrid and electric vehicles) - adding cmvss 141	
Environment	Emissions	Canadian Environmental Protection Act 1999 On-road vehicle and engine emission regulations.	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Emissions	Canadian Environmental Protection Act, 1999 - passenger automobile and light truck greenhouse gas emissions regulations.	
Environment	Fuel	Canadian Environmental Protection Act - gasoline regulations	
Environment	Fuel	Canadian Environmental Protection Act - benzene in gasoline regulations	
Environment	Fuel	Canadian Environmental Protection Act 1999 - sulphur in diesel fuel regulations	
Environment	Fuel	Canadian Environmental Protection Act 1999 - sulphur in diesel fuel regulations	
Mixed	General act on motor vehicles safety	Motor Vehicle Safety Regulations (C.R.C., c. 1038)	
Mixed	Automotive refinishing products	Volatile Organic Compound (VOC) concentration limits for automotive refinishing products regulations	
Radio	Certification of radio apparatus	Radio Standards Procedure RSP-100	
Radio	Interference-Causing Equipment Standard, ICES-006, issue 3, AC wire carrier current devices (unintentional radiators)	ICES-006, Issue 3	
Radio	Vehicular radar and airport fixed or mobile radar in the 76-81GHz frequency band	RSS-251	
Radio	Devices Using Ultra-Wideband (UWB) technology	RSS-220	
Radio	Equipment operating in the frequency bands 617-652MHz, 663-698MHz, 698-756MHz and 777-787MHz	RSS-130	
Radio	Cellular telephone systems operating in the bands 824-849MHz and 869-894MHz	RSS-132	
Radio	Point-to-multipoint broadband equipment operating in the bands 512-608MHz for Rural Remote Broadband Systems (RRBS)	RSS-196	
Radio	Implementation and interpretation of the interference-causing equipment standard for digital apparatus. (Industry Canada)	ICES-003	
Radio	Licence-exempt radio apparatus: category I equipment	RSS-210 (Issue 9)	
Radio	General requirements for compliance of radio apparatus	RSS-Gen (Issue 5)	
Radio	Intelligent transportation systems – Dedicated Short Range Communications (DSRC) – On-Board Unit (OBU)	RSS-252	



AUSTRALIA



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AUSTRALIAN GOVERNMENT

Department of Infrastructure, Transport,
Regional Development and Local Government

Administers Road Vehicles Standards, develops and implements national road vehicle standards as part of the regulation

ACMA

Australian Communications and Media Authority

Independent Commonwealth statutory authority to set and manage rules about communications and media services and markets incl. licensing of products to operate in Australia

ACCC

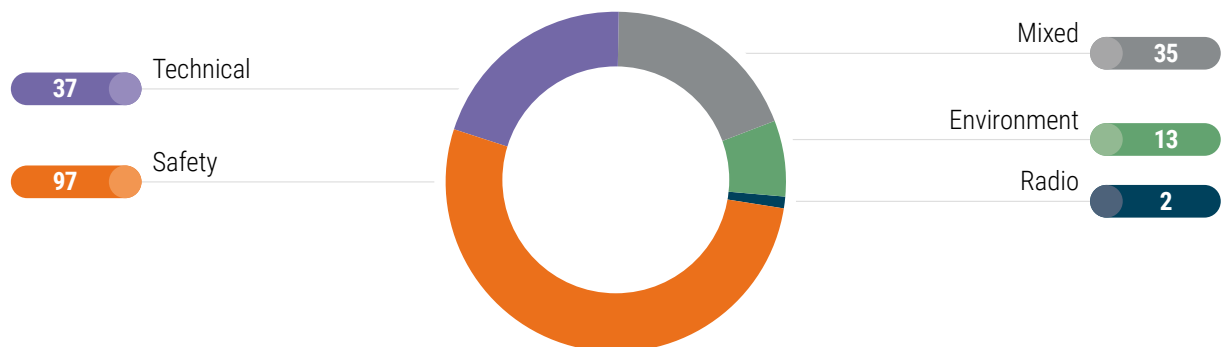
Australian Competition and Consumer Commission

Promotes competition and fair trade in markets to benefit consumers, businesses, and the community. We also regulate national infrastructure services.

Local governments & legislatures

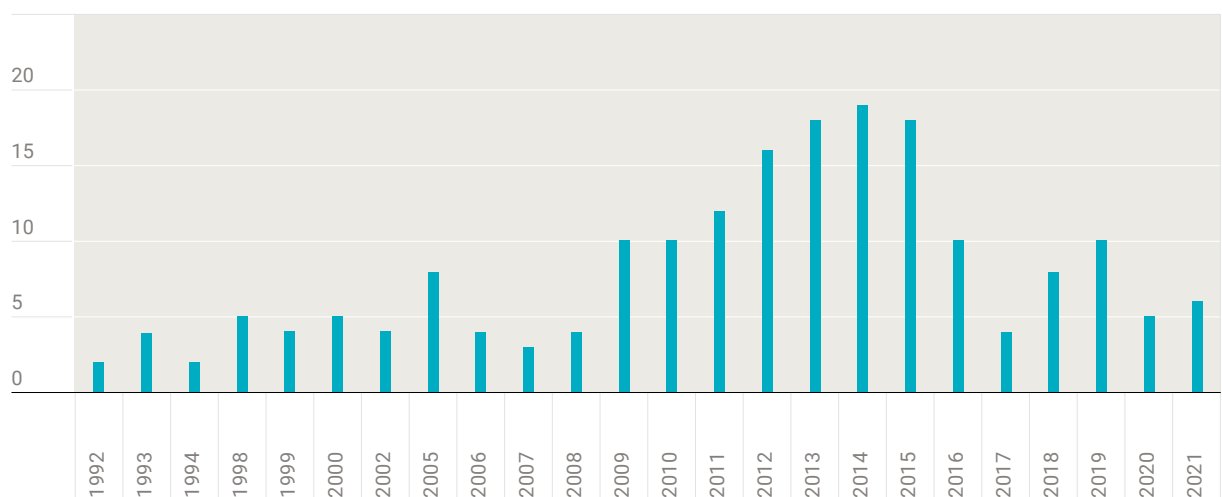
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Reversing lamps	ADR 1/00	
Safety	Side door latches and hinges	ADR 2/00	
Safety	Side door latches and hinges	ADR 2/01	
Safety	Seats and seat anchorages	ADR 3/00	
Safety	Seats and seat anchorages	ADR 3/01	
Safety	Seats and seat anchorages	ADR 3/02	
Safety	Seats and seat anchorages	ADR 3/03	
Safety	Seats and seat anchorages	ADR 3/04	
Safety	Seatbelts	ADR 4/00	
Safety	Seatbelts	ADR 4/01	
Safety	Seatbelts	ADR 4/02	
Safety	Seatbelts	ADR 4/03	
Safety	Seatbelts	ADR 4/04	
Safety	Seatbelts	ADR 4/05	
Safety	Seatbelts	ADR 4/06 valid from 01.07.2019	
Safety	Anchorage for seatbelts	ADR 5/00	
Safety	Anchorage for seatbelts	ADR 5/01	
Safety	Anchorage for seatbelts	ADR 5/02	
Safety	Anchorage for seatbelts	ADR 5/03	
Safety	Anchorage for seatbelts	ADR 5/04	
Safety	Anchorage for seatbelts	ADR 5/05	
Safety	Anchorage for seatbelts	ADR 5/06 valid from 01.07.2019	
Safety	Direction indicators	ADR 6/00	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Safety glazing material	ADR 8/00	
Safety	Safety glazing material	ADR 8/01	
Safety	Steering column	ADR 10/00	
Safety	Steering column	ADR 10/01	
Safety	Steering column	ADR 10/02	
Safety	Internal sun visors	ADR 11/00	
Safety	Installation of lighting and light-signalling devices on other than L-Group vehicles	ADR 13/00	
Safety	Rear vision mirrors	ADR 14/00	
Safety	Rear vision mirrors	ADR 14/01	
Safety	Rear vision mirrors	ADR 14/02	
Technical	Instrumentation	ADR 18/00	
Technical	Instrumentation	ADR 18/01	
Technical	Instrumentation	ADR 18/02	
Technical	Instrumentation	ADR 18/03	
Safety	Installation of lighting & light-signalling devices on L-Group vehicles	ADR 19/00	
Safety	Installation of lighting & light-signalling devices on L-Group vehicles	ADR 19/01	
Safety	Installation of lighting & light-signalling devices on L-Group vehicles	ADR 19/02	
Safety	Instrument panel	ADR 21/00	
Safety	Head restraints	ADR 22/00	
Technical	Passenger car tyres	ADR 23/00	
Technical	Passenger car tyres	ADR 23/01	
Technical	Passenger car tyres	ADR 23/02	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Passenger car tyres	ADR 23/03	
Technical	Anti-theft lock	ADR 25/00	
Technical	Anti-theft lock	ADR 25/01	
Technical	Anti-theft lock	ADR 25/02	
Safety	Side door strength	ADR 29/00	
Environment	Smoke emission control for diesel vehicles	ADR 30/01	
Safety	Brake systems for passenger cars	ADR 31/01	
Safety	Brake systems for passenger cars	ADR 31/02	
Safety	Brake systems for passenger cars	ADR 31/03	
Safety	Brake systems for passenger cars	ADR 31/04	
Safety	Child restraint anchorages and child restraint anchor fittings	ADR 34/00	
Safety	Child restraint anchorages and child restraint anchor fittings	ADR 34/01	
Safety	Child restraint anchorages and child restraint anchor fittings	ADR 34/02	
Safety	Child restraint anchorages and child restraint anchor fittings	ADR 34/03	
Safety	Commercial vehicle brake systems	ADR 35/00	
Safety	Commercial vehicle brake systems	ADR 35/01	
Safety	Commercial vehicle brake systems	ADR 35/02	
Safety	Commercial vehicle brake systems	ADR 35/03	
Safety	Commercial vehicle brake systems	ADR 35/04	
Safety	Commercial vehicle brake systems	ADR 35/05	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Commercial vehicle brake systems	ADR 35/06 from 01.01.2022	
Safety	Trailer brake systems	ADR 38/00	
Safety	Trailer brake systems	ADR 38/01	
Safety	Trailer brake systems	ADR 38/02	
Safety	Trailer brake systems	ADR 38/03	
Safety	Trailer brake systems	ADR 38/04	
Safety	Trailer brake systems	ADR 38/05 from 01.11.2019	
Safety	General safety requirements	ADR 42/00	
Safety	General safety requirements	ADR 42/01	
Safety	General safety requirements	ADR 42/02	
Safety	General safety requirements	ADR 42/03	
Safety	General safety requirements	ADR 42/04	
Safety	Wheels/tyres	ADR 42/05 from 01.07.2019	
Technical	Vehicle configuration & dimensions	ADR 43/00	
Technical	Vehicle configuration & dimensions	ADR 43/01	
Technical	Vehicle configuration & dimensions	ADR 43/02	
Technical	Vehicle configuration & dimensions	ADR 43/03	
Technical	Vehicle configuration & dimensions	ADR 43/04	
Technical	Specific purpose vehicle requirements	ADR 44/00	
Technical	Specific purpose vehicle requirements	ADR 44/01	
Technical	Specific purpose vehicle requirements	ADR 44/02	
Safety	Lighting & light-signalling devices not covered by ECE Regulations	ADR 45/00	
Safety	Lighting & light-signalling devices not covered by ECE Regulations	ADR 45/01	



Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Headlamps	ADR 46/00	
Safety	Retroreflectors	ADR 47/00	
Safety	Devices for illumination of rear registration plates	ADR 48/00	
Safety	Front and rear position (side) lamps, stop lamps and end-outline marker lamps	ADR 49/00	
Safety	Front fog lamps	ADR 50/00	
Safety	Filament lamps	ADR 51/00	
Safety	Rear fog lamps	ADR 52/00	
Safety	Front and rear position lamps, stop lamps, direction indicators & rear registration plate lamps for L-Group vehicles	ADR 53/00	
Safety	Headlamps for mopeds	ADR 54/00	
Safety	Headlamps for motor cycles	ADR 55/00	
Technical	Requirements for omnibuses designed for hire and reward	ADR 58/00	
Technical	Standards for omnibus rollover strength	ADR 59/00	
Safety	Centre high mounted stop lamp	ADR 60/00	
Technical	Vehicle marking	ADR 61/00	
Technical	Vehicle marking	ADR 61/01	
Technical	Vehicle marking	ADR 61/02	
Technical	Vehicle marking	ADR 61/03 from 01.07.2022	
Technical	Mechanical connections between vehicles	ADR 62/00	
Technical	Mechanical connections between vehicles	ADR 62/01	
Technical	Mechanical connections between vehicles	ADR 62/02	
Technical	Trailers designed for use in road trains	ADR 63/00	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Heavy goods vehicles designed for use in road trains & B-Doubles	ADR 64/00	
Technical	Maximum road speed limiting for heavy goods vehicles and heavy omnibuses	ADR 65/00	
Technical	Installation of lighting and light-signalling devices on three-wheeled vehicles	ADR 67/00	
Safety	Occupant protection in buses	ADR 68/00	
Safety	Full frontal impact occupant protection	ADR 69/00	
Safety	Dynamic side impact occupant protection	ADR 72/00	
Safety	Offset frontal impact occupant protection	ADR 73/00	
Safety	Side marker lamps	ADR 74/00	
Safety	Headlamp cleaners	ADR 75/00	
Safety	Daytime running lamps	ADR 76/00	
Safety	Gas discharge headlamps	ADR 77/00	
Safety	Gas discharge light sources	ADR 78/00	
Environment	Emission control for light vehicles	ADR 79/00	
Environment	Emission control for light vehicles	ADR 79/01	
Environment	Emission control for light vehicles	ADR 79/02	
Environment	Emission control for light vehicles	ADR 79/03	
Environment	Emission control for light vehicles	ADR 79/04	
Environment	Emission control for heavy vehicles	ADR 80/00	
Environment	Emission control for heavy vehicles	ADR 80/01	
Environment	Emission control for heavy vehicles	ADR 80/02	
Environment	Emission control for heavy vehicles	ADR 80/03	
Environment	Fuel consumption labelling for light vehicles	ADR 81/01	
Environment	Fuel consumption labelling for light vehicles	ADR 81/02	

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Engine immobilisers	ADR 82/00	
Environment	External noise	ADR 83/00	
Safety	Front underrun impact protection	ADR 84/00	
Safety	Pole side impact performance	ADR 85/00	
Safety	Parking lamps	ADR 86/00	
Safety	Cornering lamps	ADR 87/00	
Technical	Electronic stability control	ADR 88/00	
Safety	Brake assist systems	ADR 89/00	
Safety	Rear underrun impact protection	ADR 91/00	
Technical	External projections	ADR 92/00	
Safety	Forward field of view	ADR 93/00	
Safety	Audible warning	ADR 94/00	
Technical	Installation of tyres	ADR 95/00	
Technical	Commercial vehicle tyres	ADR 96/00	
Safety	Advanced emergency braking for passenger vehicles and light goods vehicles	ADR 98/00	
Safety	Advanced emergency braking for passenger vehicles and light goods vehicles	ADR 98/01	
Radio	Act on labeling of wireless devices	Radiocommunications (Compliance Labelling – Devices) Notice 2014	
Radio	Radio equipment	Radiocommunications Act 1992 Radiocommunications Legislation Amendment (Reform and Modernisation) Act 2020 Radiocommunications Equipment (General) Rules 2021	



Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Certification of new vehicles	Administrator's Circular 0-1-2	
Mixed	Safety chain connection devices for road trailers which are up to 3.5t (3,500kg) aggregate trailer mass (ATM)	Administrator's Circular 0-1-3	
Mixed	Optional equipment and/or modifications to vehicles	Administrator's Circular 0-2-4	
Mixed	Certification of trailers up to 4.5t	Administrator's Circular 0-2-7	
Mixed	Vehicles manufactured from imported used spare parts	Administrator's Circular 0-2-10	
Mixed	Selection of vehicles and components for ADR compliance testing	Administrator's Circular 0-2-11	
Mixed	Certification of new low production passenger cars	Administrator's Circular 0-2-13	
Mixed	Discontinuation of tyre Component Registration Numbers (CRNs)	Administrator's Circular 0-2-15	
Mixed	Identification plates	Administrator's Circular 0-3-2	
Mixed	Vehicle make and model designation	Administrator's Circular 0-3-3	
Mixed	Certification procedures for new vehicles	Administrator's Circular 0-3-4	
Mixed	Certification procedures for trailers	Administrator's Circular 0-3-6	
Mixed	Provision of vehicle identification numbers	Administrator's Circular 0-3-9	
Mixed	Certification of new low volume vehicles	Administrator's Circular 0-4-1	
Mixed	Final inspection certificate documents for new vehicles	Administrator's Circular 0-4-5	
Mixed	Vehicles which have undergone a second-stage-of-manufacture	Administrator's Circular 0-4-6	
Mixed	Registration and use of evaluation vehicles (including their importation)	Administrator's Circular 0-4-8	
Mixed	Certification of chassis-cab vehicles	Administrator's Circular 0-4-11	
Mixed	Certification of campervans and motorhomes	Administrator's Circular 0-4-12	
Mixed	Heavy omnibus sub-assemblies	Administrator's Circular 0-4-23	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Certification of heavy omnibuses	Administrator's circular 0-4-24	
Mixed	Applications for CRNs	Administrator's circular 0-4-26	
Mixed	Approval scheme for a used imported trailer	Administrator's circular 0-4-29	
Mixed	ADR harmonisation - certification procedures	Administrator's circular 0-4-30	
Mixed	ADR harmonisation - acceptable recent versions of UN regulations	Administrator's circular 0-4-31	
Mixed	Trailer categories	Administrator's circular 0-7-5	
Mixed	Test facility inspection	Administrator's circular 0-12-0	
Mixed	Conformity of production	Administrator's circular 0-13-1	
Mixed	Procedures for single uniform type inspections	Administrator's circular 0-14-1	
Mixed	Desktop audits of ADR evidence of compliance	Administrator's circular 0-15-1	
Mixed	General act on motor vehicle safety	Road vehicle standards act 2018	
Mixed	Light vehicle emissions and car safety standards	Australian light vehicle standards rules 2015	
Mixed	Vehicle repair information sharing	Competition and consumer amendment (motor vehicle service and repair information sharing scheme) bill 2021	
Mixed	Consumer Goods (products containing button/coin batteries) Safety Standard 2020	Safety Standard relating to secureness of goods containing button/coin type batteries.	
Mixed	Consumer Goods (products containing button/coin batteries) Information Standard 2020	Information Standard relating to safety warnings on consumer goods containing button/coin batteries.	



GSO

GCC Standardisation Organisation



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GSO FACTS

Established in 2005, the Gulf Standardisation Organisation (GSO) is a standardisation organisation and regulatory body for the Gulf Cooperation Council (GCC), whose members include all the Arab Gulf states (except Iraq).

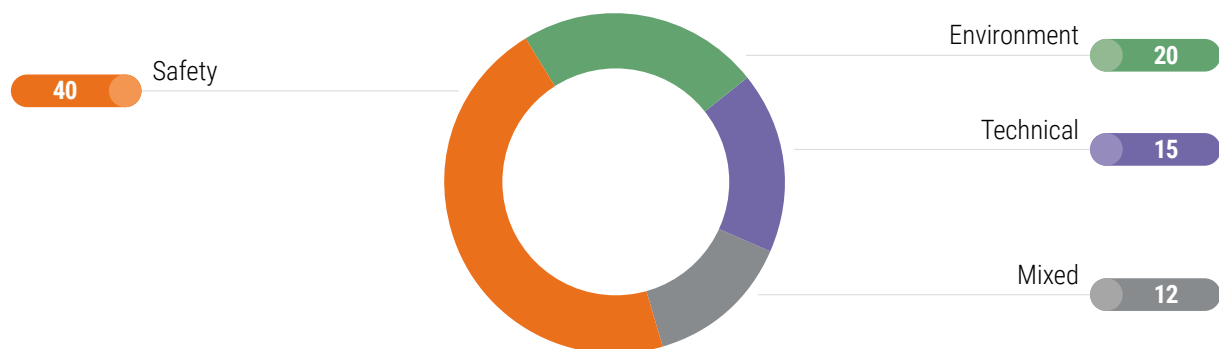
Yemen is currently in negotiations for future GCC membership, and adheres to the Technical Regulations adopted by the GCC countries.

6 GSO MEMBERS

QS Qatar General Organisation for Standardisation	BSMD Bahrain Standards and Metrology Directorate
KOWSMD Kuwait Standards and Industrial Services Affairs	MoIAT Ministry of Industry and Advanced Technology
SASO Saudi Standards, Metrology and Quality Organisation	DGSM Oman Directorate general for Specifications & Measurements

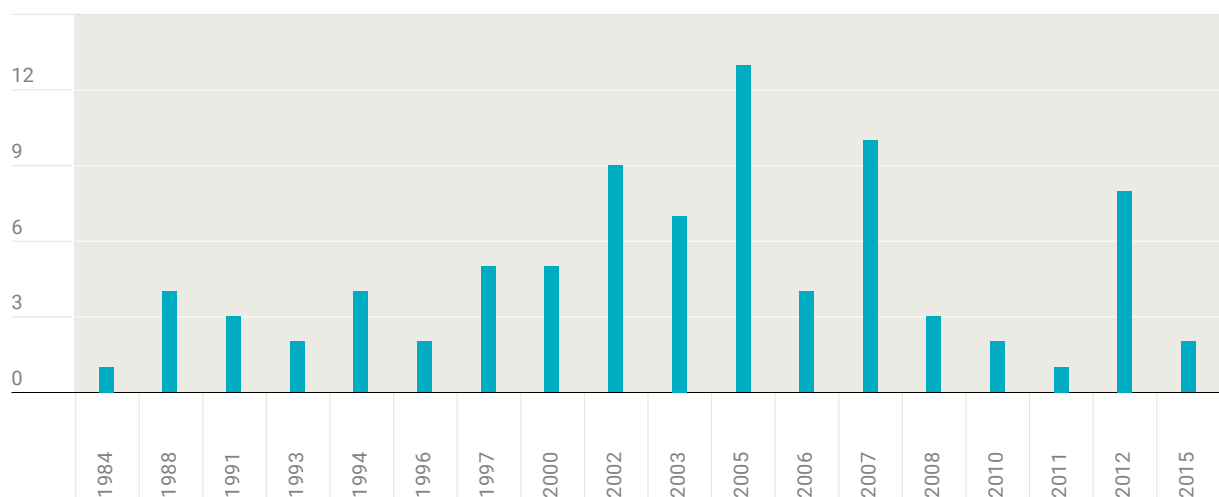
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Methods of testing for lead-acid starter batteries used for motor cars and internal combustion engines	GSO 35:2007	
Safety	Methods of testing for impact strength Part 1: Frontal impact	GSO 36:2005	
	Methods of testing for impact strength Part 2: Rear impact	GSO 37:2012	
	Methods of testing for impact strength Part 3A: Side impact	GSO 38:2005	
	Methods of testing for impact strength Part 3B: Moving barrier side impact	GSO 1707:2005 (In accordance to US standards)	
	Methods of testing for impact strength Part 3C: Moving barrier side impact	GSO 1708:2005 (In accordance to European standards)	
	Methods of testing for impact strength Part 4: Roof strength	GSO 39:2005	
Safety	Front and rear exterior protection devices for passenger cars (bumpers, etc) and its methods of testing	GSO 41:2007	
Safety	Conformity certificates	GSO 48:1984	
Safety	Tyres	GSO 42:2015	
	Passenger car tyres Part 3: Methods of testing	GSO 53:2007	
	Passenger car tyres Treadwear, traction and temperature-resistance grading	GSO 1783:2006	
	Passenger car tyres Method of testing of tyre temperature resistance grading	GSO 1784:2006	
	Multi-purpose vehicles, trucks, buses and trailers tyres Part 2: Method of testing	GSO 646:1996	
	Motor vehicles tyres Temporary use spare wheel / Tyres and their methods of testing	GSO 1052:2000*	
Safety	Methods of testing of safety belt	GSO 96:1988	
	Safety belts	GSO 97:1988	
Safety	Flammability of interior materials and testing methods	GSO 98:1988	

* Applicable for certification if provided or the vehicle is designed for

** Not applicable for certification

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Methods of testing for engine radiator	GSO 135:2007	
Safety	Instruction manual for appliances instruments and equipment	GSO 290:1994	
Safety	Methods of testing for door locks and door hinges	GSO 419:1994 GSO 420:1994	
Safety	Methods of testing of rear-view mirrors	GSO 421:2005	
Safety	Safety glasses - Test methods for optical properties	GSO ISO 3538:1997	
	Safety glazing materials - Mechanical tests	GSO ISO 3537:2008	
	Laminated safety glass	GSO 1677:2003	
Safety	Protection against theft	GSO 1053:2000	
Safety	Head lamps safety requirements	GSO 1503:2010	
Safety	Speed limiters Part 3: Methods of testing	GSO 1626:2002*	
Safety	Head restraints and their methods of testing	GSO 1598:2002	
Safety	Child restraint systems	GSO 1709:2005*	
	Methods of testing of child restraint systems	GSO 1710:2005*	
Safety	Methods of testing for braking system Part 1: Braking performance	GSO ECE-13H-1:2012	
	Methods of testing for braking system Part 2: Determination of capacity of energy storage devices	GSO ECE-13H-2:2012	
	Methods of testing for braking system Part 3: Determination of distribution of braking among the axles of vehicles	GSO ECE-13H-3:2012	
	Methods of testing for braking system Part 4: Determination of function of anti-lock systems	GSO ECE-13H-4:2012	
	Methods of testing for braking system Part 5: Determination of performance of brake lining using inertia dynamometre	GSO ECE-13H-5:2012	
	Methods of testing for braking system Part 6: Determination of coefficient of adhesion	GSO ECE-13H-6:2012	
Safety	Retro reflective number plates and its methods of testing	GSO 289:1994**	

* Applicable for certification if provided or the vehicle is designed for

** Not applicable for certification

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Safety requirements for maintenance and repair workshop	GSO 674:1997**	
Safety	Safety requirements for pilgrim buses	GSO 967:1997*	
Technical	Periodic technical inspection manual	GSO 971:1997**	
Technical	Speed limiters Part 1: General limiters, equipment inspection, certification and type approval	GSO 1711:2005	
Technical	Methods of testing brake linings Part 1: Internal shear strength of lining material	GSO ISO 6311:2005**	
Technical	Requirements for storage of motor vehicles tyres	GSO 581:2007**	
Technical	Lead-acid starter batteries used for motor cars and internal combustion engines	GSO 34:2007	
Technical	Impact strength	GSO 40:2011	
Technical	Sound signalling devices Technical specifications	GSO 99:1988	
Technical	Engine radiator	GSO 136:2007	
Technical	Rear-view mirrors	GSO 422:2005	
Technical	Speed limiters Part 2: Technical requirements	GSO 1625:2002*	
Technical	Engine test code – Net power	GSO ISO 1585:2008	
Technical	Braking system of passenger cars and multi-purpose vehicles	GSO ECE-13H:2012	
Technical	Passenger car tyres Part 1: Nomenclature, designation, dimensions, load capacities and inflation pressures	GSO 51:2007	
Technical	Passenger car tyres Part 2: General requirements	GSO 52:2007	
Technical	Passenger car tyres Part 3: Methods of testing	GSO 53:2007	
Environment	Allowable limits of pollutants emitted to the atmosphere from heavy-duty diesel engine vehicles	GSO 144:1991	

* Applicable for certification if provided or the vehicle is designed for

** Not applicable for certification

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Methods of testing for pollutants emitted from heavy-duty diesel engine vehicles Part 1: Determination of exhaust gaseous pollutants	GSO 145:1991	
	Methods of testing for pollutants emitted from heavy-duty diesel engine vehicles Part 2: Determination of smoke	GSO 146:1991	
Environment	Allowable limits of pollutants emitted to the atmosphere from light-duty diesel engine vehicles	GSO 1040:2000	
Environment	Methods of testing for pollutants emitted from heavy-duty diesel engine vehicles Part 1: Determination of exhaust gaseous pollutants	GSO 1041:2000	
	Methods of testing for pollutants emitted from heavy-duty diesel engine vehicles Part 2: Determination of smoke	GSO 1042:2000	
Environment	Noise emissions	GSO 1624:2002	
Environment	Allowable limits of gaseous pollutants emitted to the atmosphere from unleaded gasoline vehicles	GSO 1680:2003	
	Methods of testing for gaseous pollutants emitted from unleaded gasoline engine vehicles Part 1: Determination of exhaust gaseous pollutants after a cold start	GSO 1681:2003	
	Methods of testing for gaseous pollutants emitted from unleaded gasoline engine vehicles Part 2: Determination of exhaust carbon monoxide concentration	GSO 1682:2003	
	Methods of testing for gaseous pollutants emitted from unleaded gasoline engine vehicles Part 3: Determination of evaporative emissions (hydro- carbons) from the fuel system using the enclosure method	GSO 1683:2003	
	Methods of testing for gaseous pollutants emitted from unleaded gasoline engine vehicles Part 4: Determination of gaseous pollutants emitted from engine crankcase	GSO 1684:2003	
	Methods of testing for gaseous pollutants emitted from unleaded gasoline engine vehicles Part 5: Determination of durability of pollution control equipment	GSO 1685:2003	
Environment	Full-flow lubricating oil filters for internal combustion engines Dimensions	GSO 1605:2002**	

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** Not applicable for certification

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Methods of testing for full-flow lubricating oil filters for internal combustion engines Part 6: Static burst pressure test	GSO ISO 4548- 6:2002**	
Environment	Methods of testing for full-flow lubricating oil filters for internal combustion engines Part 1: Differential pressure flow characteristics	GSO ISO 4548-1:2002**	
Environment	Methods of testing for full-flow lubricating oil filters for internal combustion engines Part 2: Element by-pass valve characteristics	GSO ISO 4548- 2:2002**	
Environment	Methods of testing for full-flow lubricating oil filters for internal combustion engines Part 3: Resistance to high differential pressure and to elevated temperature	GSO ISO 4548- 3:2002**	
Mixed	All motor vehicles (either 2020 MY or 2021 MY) to be exported to GSO member countries are required to upload their Vehicle Identification Number (VIN) in ECCS	starting from 01.01.2020	
	Vehicle Identification Number (VIN) Requirements	GSO 1780:2010	
	Vehicle Identification Number (VIN) Location and attachment	GSO 1782:2008	
Mixed	World Manufacturer Identifier	GSO 1781:2006	
Mixed	General requirements	GSO 42:2015	
Mixed	Dimensions and weights	GSO 159:1993	
Mixed	Multi-purpose vehicles, trucks, buses and trailer tyres Part 1: Nomenclature, designation, dimensions, load capacities and inflation pressures	GSO 645:2005	
	Multi-purpose vehicles, trucks, buses and trailer tyres Part 3: General Requirements	GSO 647:1996	
Mixed	Conformity certificates for vehicles manufactured in multi-stages	GSO 153:1993	
Mixed	Car upholstery Testing methods of fabric for car seats	GSO 279:2005**	
Mixed	Car upholstery Fabric for car seats	GSO 280:2005**	
Mixed	General requirements for ambulances	GSO 963:1997*	
Mixed	Draft regulation for electric vehicles	GSO 02/01/FDS/ SCT2	

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** Not applicable for certification



IRAQ



NATIONAL REGULATIONS

IN ADDITION TO GSO REGULATIONS
(COUNTRY SPECIFIC)

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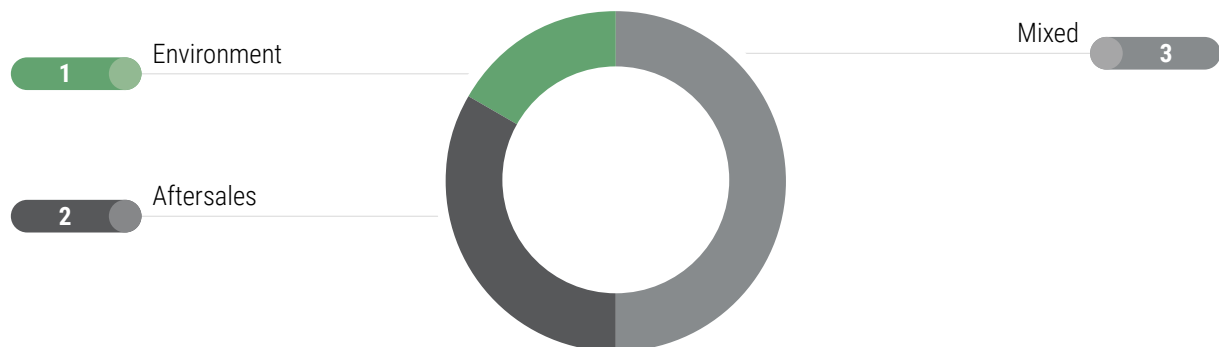
MINISTRY AND REGULATORY AUTHORITIES

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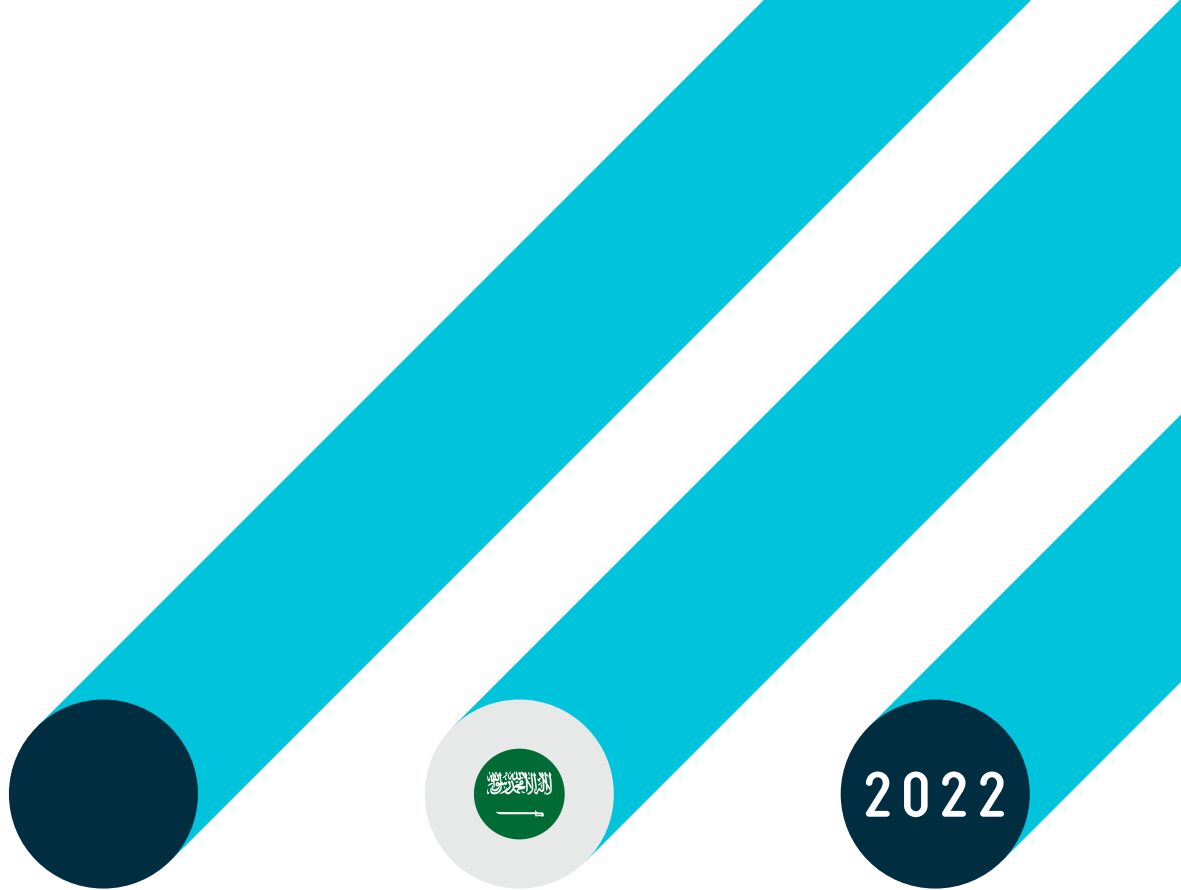


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Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Requirement for exhaust outlet pipes	IQS 2315 / 2015 Art 11	No
Mixed	Mandatory equipment with extinguisher	IQS 2315 / 2015 Art 37.2 IQS 2315 / 2015 Art 37.6	
Mixed	Mandatory equipment with first aid kit (DIN 13164 ex works)	IQS 2315 / 2015 Art 37.4 IQS 2315 / 2015 Art 37.633957	
Mixed	Requirements for certification plate and chassis number	IQS 2315 / 2015	No
Mixed	Required Plant Audit Annually		
Aftersales	Import control of vehicle components (eg, safety glass or tyres)	Pre-Importation Inspection, Testing & Certification Program of Goods to Iraq (ICIGI)	Yes
Aftersales	Import control of used and new vehicles imported to the region of Kurdistan-Iraq	Verification Of Conformity of the Imported Vehicles (VOCIV) into the region of Kurdistan-Iraq Program	Yes



SAUDI ARABIA



NATIONAL REGULATIONS

IN ADDITION TO GSO REGULATIONS
(COUNTRY SPECIFIC)

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MINISTRY AND REGULATORY AUTHORITIES

SASO Saudi Standards, Metrology and Quality Organisation

ACTIVITIES

Gulf Activity

Gulf Standardisation Organisation (GSO)

Arab Activity

Arab Industrial Development and Mining Organisation (AIDMO)

International Activities

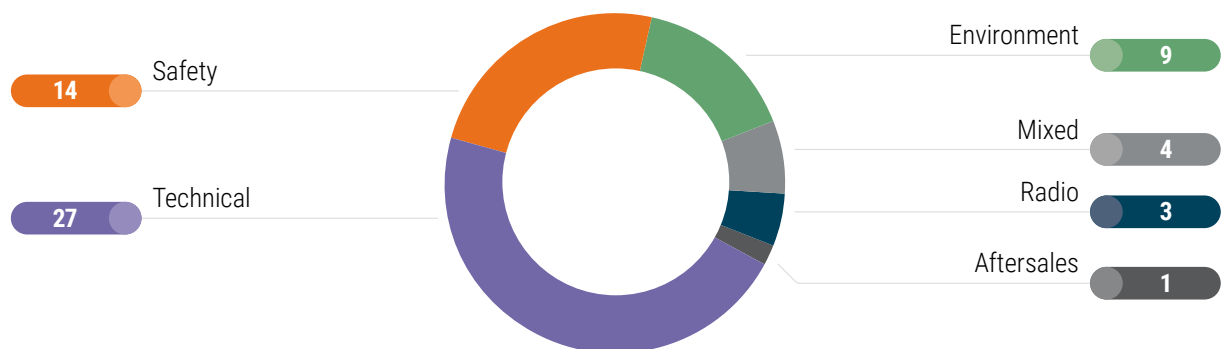
International Organisation for Standardisation (ISO)

International Organisation of Legal Metrology (OIML)

International Electrotechnical Commission (IEC)

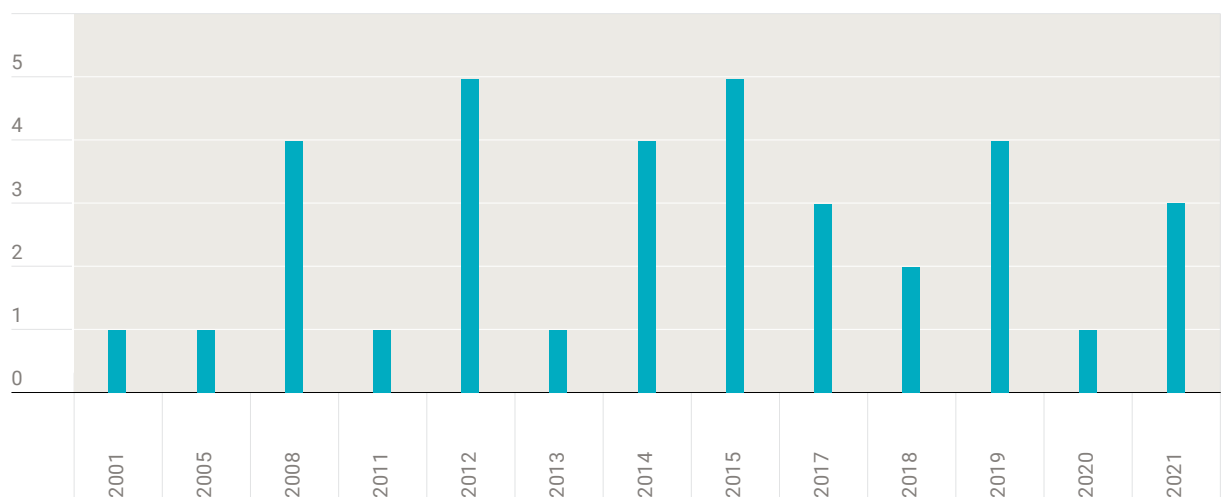
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YEARLY ISSUANCE OF NEW AND AMENDED REGULATIONS

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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Vehicle tyres rolling resistance and wet grip requirements	SASO 2857:2015	
Safety	Safety requirements for school busses	SASO GSO 2501:2017	
Safety	Front Underrun Protective Devices (FUPD) in trucks and its methods of testing	SASO GSO 2112:2012	
Safety	Lateral protection of truck and trailer and its methods of testing	SASO GSO 2113:2012	
Safety	Rear Underrun Protective Devices (RUPD) in truck and trailer and its methods of testing	SASO GSO 2114:2012	
Safety	Road vehicles safety glazing materials test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering	SASO ISO 3917:2012**	
Safety	eCall	SASO 2944:2020	
Safety	Electrical safety	MA-166-18-04-01	
Technical	Methods of test for full-flow lubricating oil filters for internal combustion engines Part 5: Cold start simulation and hydraulic pulses durability test	SASO ISO 4548-5:2014**	
Technical	Methods of test for full-flow lubricating oil filters for internal combustion engines Part 9: Inlet and outlet anti drain valve test	SASO ISO 4548-9:2008**	
Technical	Methods of test for full-flow lubricating oil filters for internal combustion engines Part 12: Filtration efficiency using particle counting, and contaminant retention capacity	SASO ISO 4548-12:2008**	
Technical	Brake linings Compressive strain test method	SASO ISO 6310:2014**	
Technical	Brake linings Shear test procedure for disc brake pad and drum brake shoe assemblies	SASO ISO 6312: 2014**	
Technical	Brake linings Effects of heat on dimensions and form of disc brake pads – test procedure	SASO ISO 6313: 2005**	
Technical	Passenger car tyres and rims Part 2: rims	SASO GSO ISO 4000-2: 2008**	
Technical	Truck and bus tyres and rims (metric series) Part 2: Rims	SASO GSO ISO 4209-2:2012**	
Technical	Light alloy wheels - Impact test	SASO ISO 7141:2015**	

* Applicable for certification if provided or the vehicle is designed for

** Not applicable for certification



Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Road vehicles wheels/rims for commercial vehicles Test methods	SASO ISO 3894:2015**	
Technical	Road vehicles passenger car wheels for road use Test methods	SASO GSO ISO 3006:2008**	
Technical	Requirement for security glazing, regulation of transparency / transmittance mandatory exclusion of SA 761, SA RG5 and SA 420	GSO for MJ 2017	No
Technical	Technical regulation for lubricating oils (brake fluid, automatic transmission fluid)	SASO TR 01-03-16-155	
Technical	Technical regulation for auto spare parts (new spare parts for motor vehicles except tyres, vehicles batteries and safety barriers)	SASO TR 02-04-17-162	Yes
Technical	Requirement for navigation system's language (Arabic and English)	SASO 9500	No
Technical	Specification for DAB, DVB and DRM Broadcasting Receivers	SASO / CITC RI 109:2013*	
Radio	Technical specifications of the radio, digital and analog broadcasting receiver for AM / FM / T-DAB+	SASO 2938:2019 mandatory onwards Models 2024	
Technical	Specification for non-specific short- range devices and ancillary equipment	SASO / CITC RI 054:2019*	
Technical	Technical regulations for electric batteries	M.A.-166-18-04-02	
Technical	Technical regulation for low voltage electric equipment and appliances (Certain electrical and electronic devices (AC 50-1000V or DC 75-1500V))	BD-142004-01 TC-143307-01	
Environment	Fuel filters for diesel engines - Test methods	SASO ISO 4020:2011 **	
Environment	Inlet air cleaning equipment for internal combustion engines and compressors – Performance testing	SASO ISO 5011:2015**	
Environment	Requirement for fleet consumption regulation	SASO Standard 29242 / 2014	No
Environment	Fuel economy labeling requirements for new light-duty vehicles	SASO 2847:2017 Amd 1: 2018	
Environment	Saudi Arabia corporate average fuel economy standard (Saudi CAFE) for incoming light-duty vehicles (2016 – 2020) CO2 and fleet consumption Phase I – Upstream emissions	SASO 2864:2015 + Amd 1: 2018	

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** Not applicable for certification



Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Saudi Arabia corporate average fuel economy standard (Saudi CAFE) for incoming light duty vehicles (2021 – 2023)	SASO 2864:2019	
Environment	Saudi Arabia Corporate Average Fuel Economy Standard (Saudi CAFE) For Incoming Light Duty Vehicles (2024 - 2028)	Draft of SASO 2864:2019 G/TBT/N/SAU/1226	
Environment	CO2 and fleet consumption Phase II	SASO 2864:0000	
Environment	Energy efficiency requirements for all pneumatic tyres	SASO TR 05-03-16-156	
Mixed	General requirements	SASO 1438 / 2001	No
Mixed	Requirements for lead starter batteries	SASO 1919 SASO 1920	
Mixed	Requirements for transmission standards	SASO / FDS / 31597:2019	
Mixed	Electric vehicles (EV with a weight not exceeding 3,500kg and speed not exceeding 25km/h)	SASO TR 03-01-17-162 SASO TR for EV 2020	
Mixed	Degradable plastic products	SASO TR 03-03-16-156	
Aftersales	SABER – Certificate of conformity and certificate of shipment conformity Effective as of 01.11.2019	B.D.-162-17-04-02 Technical regulation for auto spare parts	
Radio	Specification for Short Range Devices (SRD).	SASO-CITC-RI054:2021	
Radio	Specification for radio broadcasting equipment	SASO CITC RI121:2021	
Technical	Hydrogen vehicles	Technical regulation of hydrogen vehicles (Draft) G/TBT/N/SAU/1225	
Safety	School buses- Roof strength	Draft SASO/FDS/31832/2020 G/TBT/N/SAU/1157	
Safety	School buses – Rear crash test using moving barrier	Draft SASO/FDS/31843/2020 G/TBT/N/SAU/1156	
Safety	School buses - Pedestrian safety devices	Draft SASO/FDS/31830/2020 G/TBT/N/SAU/1155	

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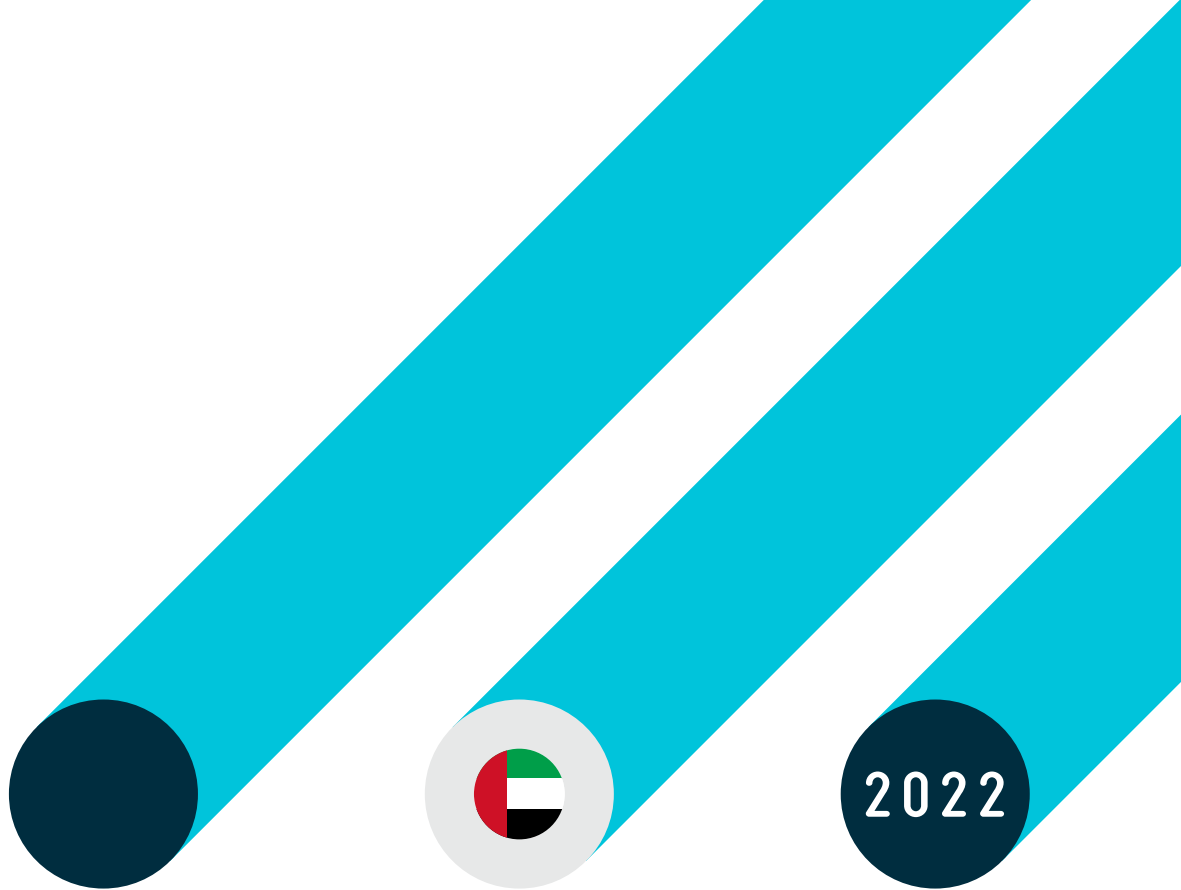
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Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Road vehicles - Transmission shift position sequence, starter interlock, and transmission braking effect	Draft SASO/FDS/31840/2020 G/TBT/N/SAU/1154	
Technical	Road vehicles – Windshield wiping and washing systems	Draft SASO/FDS/31839/2020 G/TBT/N/SAU/1153	
Technical	Road vehicles – Windshield defrosting and defogging systems	Draft SASO/FDS/31837/2020 G/TBT/N/SAU/1152	
Safety	Road vehicles – Impact protection for the driver from the steering control system	Draft SASO/FDS/31841/2020 G/TBT/N/SAU/1151	
Safety	Road vehicles - Flammability of interior materials	Draft SASO/FDS/31842/2020 G/TBT/N/SAU/1150	
Technical	Road vehicles - Controls, tell-tales and indicators	Draft SASO/FDS/31836/2020 G/TBT/N/SAU/1149	
Technical	Road vehicles - Accelerator control systems	Draft SASO/FDS/31838/2020 G/TBT/N/SAU/1148	
Safety	School buses – Body Joint Strength	Draft SASO/DS/31834/2020 G/TBT/N/SAU/1147	
Technical	School buses - General requirements	Draft SASO/FDS 31827/2020 G/TBT/N/SAU/1141	
Technical	Batteries	SASO IEC 60095-1:2019 SASO IEC 60095-2:2019	

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** Not applicable for certification



UNITED ARAB EMIRATES



NATIONAL REGULATIONS

IN ADDITION TO GSO REGULATIONS
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MINISTRY AND REGULATORY AUTHORITIES

FEDERAL LAW NO 28 OF 2001

FEDERAL AUTHORITY FOR NATIONAL STANDARDIZATION AND QUALITY INFRASTRUCTURE

MolAT

Ministry of Industry and Advanced Technology

MEMBER OF GSO, ISO & IEC

Grants **EQM** (Emirates Quality mark (voluntary))

Supervises **ECAS**
(Emirates Conformity Assessment Scheme)

Accredits **CABs** (Conformity Assessment Bodies)

Oversees the UAE's
System for Measurement & Calibration

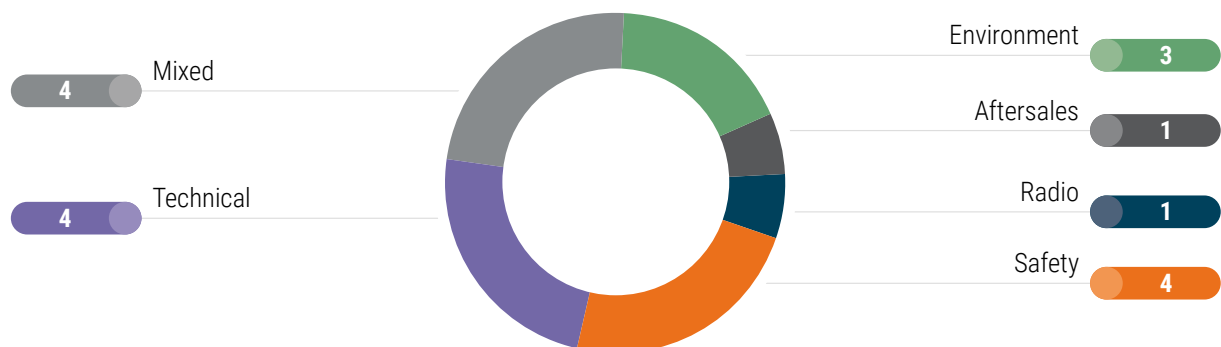
Produces **technical regulations** (mandatory)
specifications and requirements for regulated products and /
or processes including applicable administrative provisions

Formulates and issues **national standards** (not mandatory)

Adopts **international standards and mandatory standards**
issued via binding resolutions of the UAE's Council
of Ministers

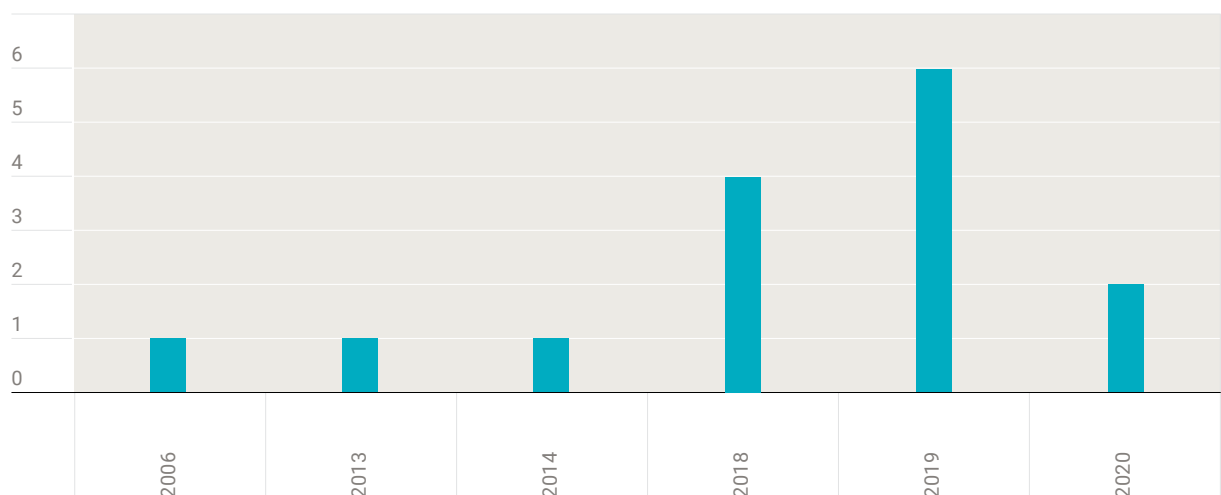
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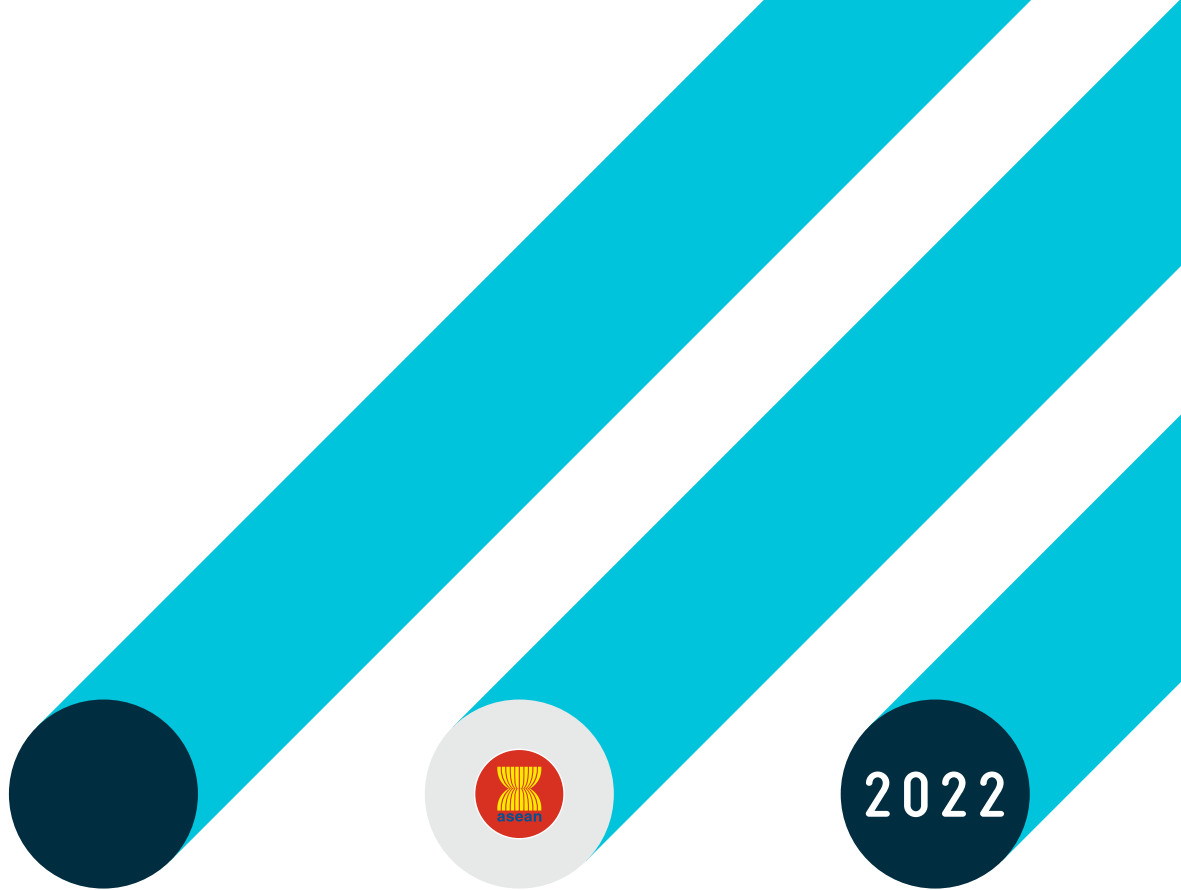




Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Seat requirements Passenger cars and multipurpose vehicles (tower back type or equipped with adjustable head restraints (except 2 rear center seat))	UAE Notification via ECCS 30.04.2020	
Safety	Front and rear outboard seats Three-point safety belts for passenger cars and multi-purpose vehicles	UAE Notification GSO Model Year 2021 requirements 11.12.2019	
Safety	Vehicle lighting requirements Front / Rear fog lamp mandatory for vehicles from model year 2025	UAE Notification dated 15 June 2020 Optional for vehicles model year 2025 (in line with the requirements of ECE 19 or SAE J583, provided that vehicles are equipped with lighting technologies that increase the efficiency of vehicles visibility while driving in a foggy conditions.)	
Safety	Speed limiting devices Busses with less than 22 seats with maximum speed of 100km/h	UAE Notification via GSO Model Year 2021 requirements 11.12.2019	
Technical	eCall all new types starting from 2021 model year. eCall will be tested by GSO when witnessed the 2021 model year new types	UAE.S 5019: 2018	
Technical	Use of repair kit as an alternative to the spare tyre For special sports design and electric vehicles and hydrogen fuel cell vehicles	UAE Notification GSO Model Year 2021 requirements 11.12.2019	
Technical	Automated driving system	DRAFT In Discussion	
Technical	UAE Terrestrial radio receiver specifications for AM / FM / DAB+	UAE.S 5021:2018	Yes
Environment	Uniform provisions for the measures against the emission of gaseous and particulate pollutants from compressing-ignition engines and positive ignition engines of vehicles.	UAE.S ECE No 49 / 2013	
Environment	Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements	UAE.S ECE No 83 / 2006	
Environment	Euro VI exhaust emission pollutant limits from vehicles model year 2025	UAE Notification GSO Model Year 2021 requirements 11.12.2019 Until GSO regulation is not updated, must comply with ECE R49 Rev6 ECE R83 Rev5	



Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Requirement for digital terrestrial television receiver	UAE.S 5017:2014	No
Mixed	Requirements for transmission standards	UAE.S 5021:2018	
Mixed	Requirements for manufacturer certification of electric vehicles	ESMA Electric Vehicle Label Requirements	
Mixed	Emirates conformity certificate and Compliance Label for Electric Vehicle certified by Emirates Authority for Standardisation and Metrology (ESMA)	UAE Notification GSO Model Year 2021 requirements 11.12.2019	
Radio	Regulation telecommunication equipment Type approval regime 2.0, dt: 02.10.2018	Effective as of 01.10.2019	Yes
Aftersales	Emirates Conformity Assessment Scheme (ECAS) and marking for control of motor vehicle spare parts	Cabinet resolution No 12 year 2018 Circular to all manufacturers, traders, suppliers and point of sale 26.11.2018 Effective as of 01.10.2019	Yes



ASEAN

Association of
Southeast Asian Nations

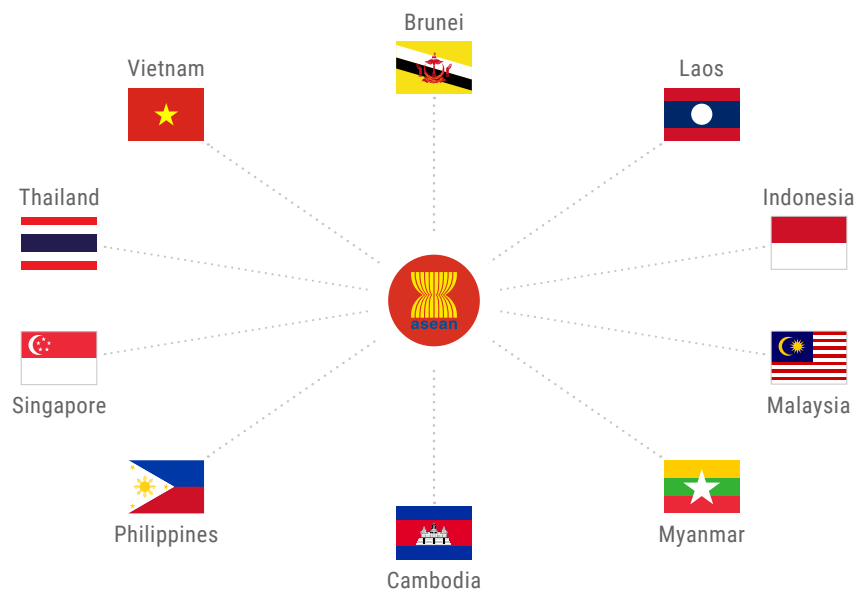


THE AUTOMOTIVE REGULATORY GUIDE

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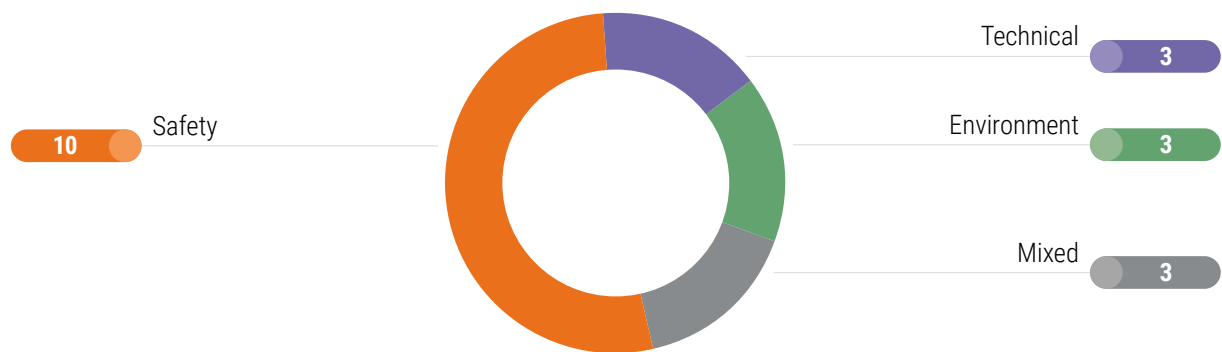
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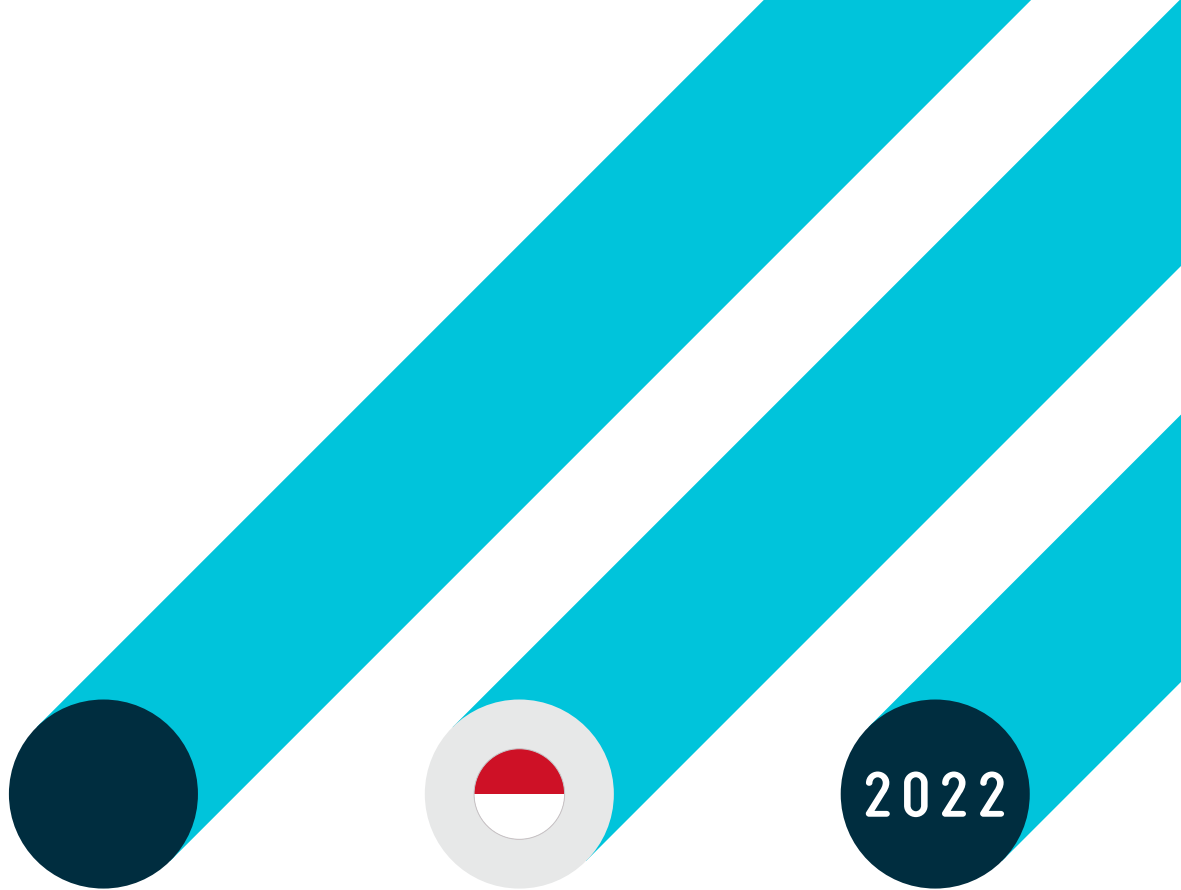


FACTS ABOUT ASEAN

2019	
TOTAL LAND AREA	4,493,516km ²
TOTAL POPULATION	661,5 million
GROSS DOMESTIC PRODUCT AT CURRENT PRICES	\$ US 3.17T
GDP GROWTH	4.6%

Item	Subject	Regulatory Act	Applicability to spare parts
The following regulations will be implemented under MRA by staged starting from 2022/2023 based on ASEAN series; full harmonisation of UNR starting in 2025			
Safety	Braking system	UN R13 (planned for adoption under ASEAN MRA)	Yes
Safety	Braking system (passenger vehicles)	UN R13H (planned for adoption under ASEAN MRA)	Yes
Safety	Seats	UN R17 (planned for adoption under ASEAN MRA)	
Safety	Head restraints	UN R25 (planned for adoption under ASEAN MRA)	Yes
Technical	Speedometers (L category)	UN R39 (planned for adoption under ASEAN MRA)	Yes
Safety	Rear view mirror	UN R46 (planned for adoption under ASEAN MRA)	Yes
Safety	Steering system	UN R79 (planned for adoption under ASEAN MRA)	Yes
Safety	Audible warning device	UN R28 (planned for adoption under ASEAN MRA)	Yes
Environment	Noise emissions	UN R51 (planned for adoption under ASEAN MRA)	No
The following regulations will be implemented under MRA by staged starting from 2023; full harmonisation of UNR starting in 2027			
Safety	Seat belt anchorages	UN R14 (planned for adoption under ASEAN MRA)	Yes
Safety	Seat belt	UN R16 (planned for adoption under ASEAN MRA)	Yes
Technical	Pneumatic tyres (passenger vehicles)	UN R30 (planned for adoption under ASEAN MRA)	Yes
Safety	Safety glass	UN R43 (planned for adoption under ASEAN MRA)	Yes
Technical	Pneumatic tyres (commercial vehicles)	UN R54 (planned for adoption under ASEAN MRA)	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
The following regulations will be implemented in stages starting from 2023 with EURO 4 level of compliance; full harmonisation of UNR starting in 2027 (EURO 5)			
Environment	Exhaust emission for heavy duty vehicle (Diesel Emission)	UN R49 (planned for adoption under ASEAN MRA)	No
Environment	Exhaust emission for light duty vehicle	UN R83 (planned for adoption under ASEAN MRA)	No
Mixed	Mutual recognition of 19 UN ECE regulations between the ASEAN members (Acceptance of ASEAN MRA test reports from each members)	ASEAN Mutual Recognition Agreement on type approval of automotive products (to be ratified)	



INDONESIA



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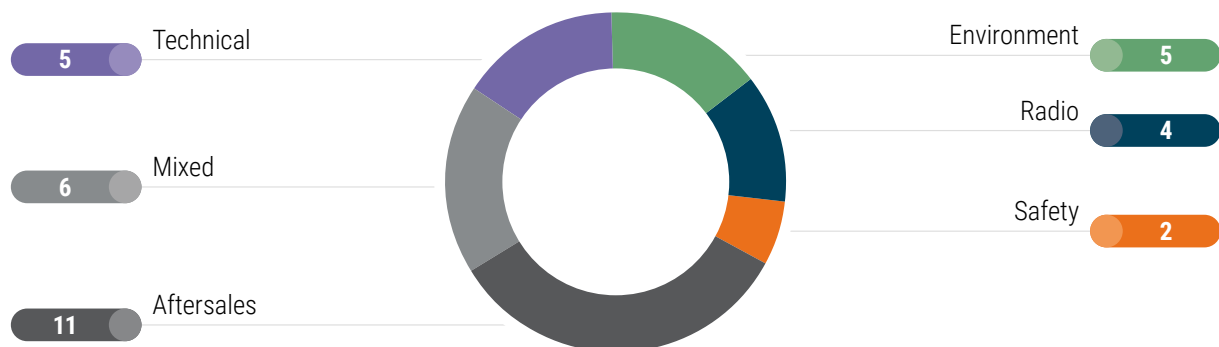
MINISTRY AND REGULATORY AUTHORITIES



- conducted by supporting KAN (National Accreditation Body) and KSNSU (National standard committee for measuring units)
- responsible for standardisation, conformity assessment, accreditation and metrology activities

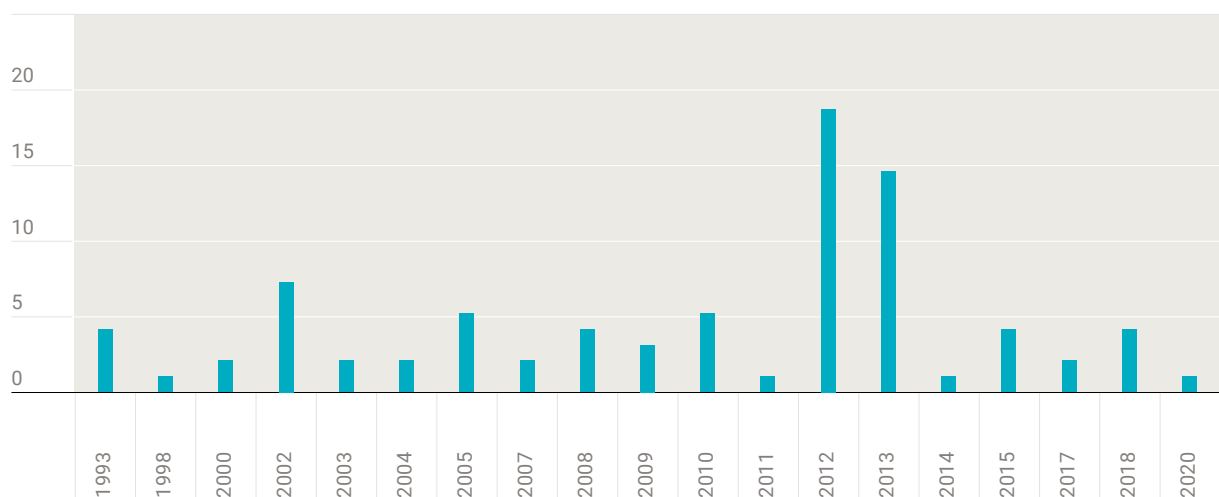
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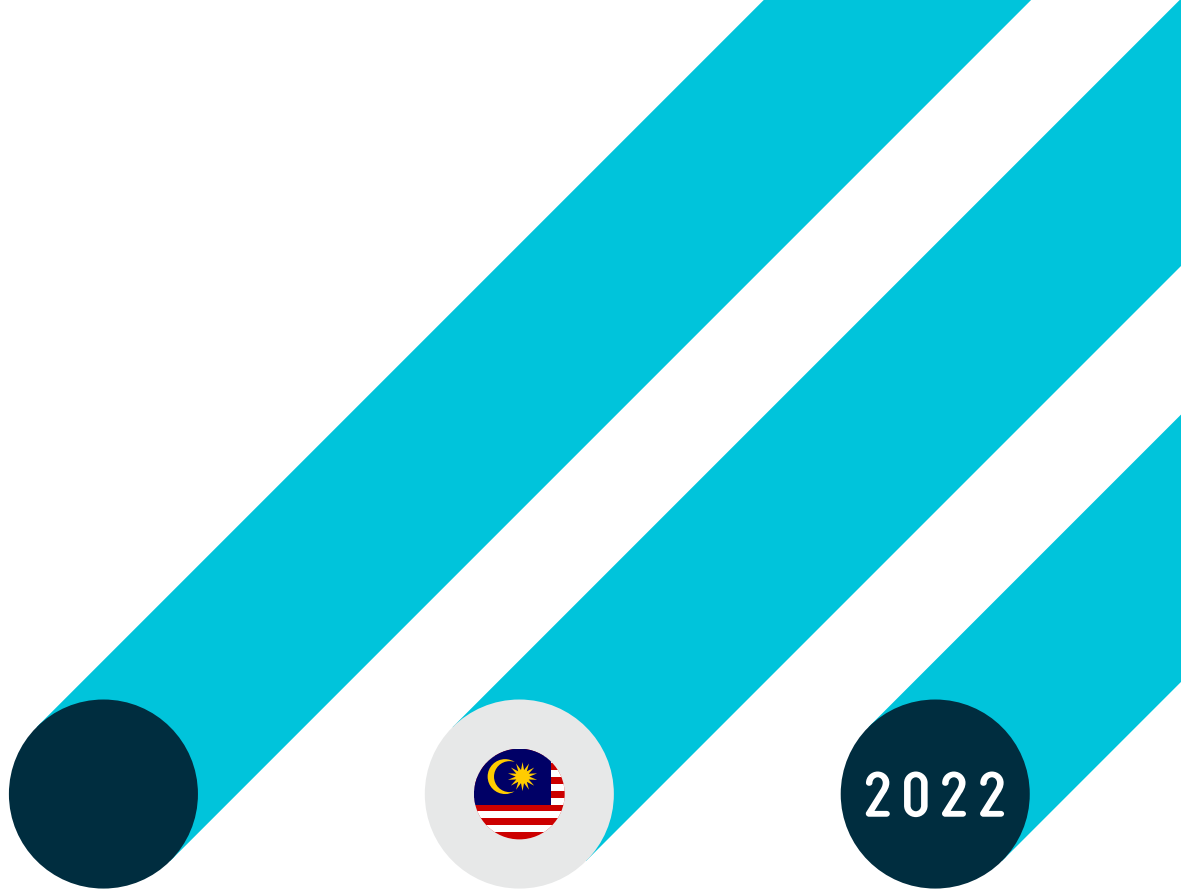
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Audible warning device Limit Value: 90-118dB	National requirement KM No 63 / 1993 or MoEF Regulation	No
Safety	Motorised vehicle emergency response facility	KP972 / AJ502 / DRJD / 2020	No
Technical	Requirement for owner's manual in local language	8 Consumer protection laws	
Technical	Requirement for warning triangle	PM 33-2018 / Reg. 55 / 2012	Yes
Technical	Braking System Brake Efficiency7 Parking Brake: Min 50% with F=500 N, h=100 m, 12 times Min 60% with F=700 N, h=150 mm, 12 times	National requirement KM No. 63 / 1993 or MoEF Regulation	No
Technical	Speedometer -10% to 15% on speed of 50km/h	National requirement KM No 63 / 1993 or MoEF Regulation	No
Technical	Turning radius Max 12,000mm	National requirement KM No 63 / 1993 or MoEF Regulation	No
Environment	Introduction of emission standard Euro 4 - gasoline: Implemented in 2018. - diesel: Postponed from April 2021 to April 2022	MoEF Reg. 20 / 2018 Permen lhK No P-20 2017 Official gazette No 554 / 2017	No
Environment	Requirement for exhaust pipe position	Reg 55 / 2012	No
Environment	CO2 initiatives and fuel efficiency Focus on energy saving and conservation, also environmentally friendly	Government Regulation No 73 / 2019 & No 74 / 2021 as basic policy for Low Carbon Emission Vehicle Program (LCEV) (Note: For tax incentive purpose).	No
Environment	CO2 Initiatives & Fuel Efficiency Affordable and Fuel Efficiency Vehicle Note: EV Movement Update - EV President Regulation No 55 Year 2019 signed in 08.08.2019 and implemented in 12.08.2019 - Scope of EV is only BEV (Battery Electric Vehicle). However EV priority is for motorcycle - Forecast elimination of Internal Combustion Engine (ICE) by 2050 - Government has been drafting the SNI (Indonesia National Standard) for EV - Provision of EV Charging Infrastructure	Minister of Industry (Mol) Reg No 33 / 2013 Director General of Mol Reg No 25 / 2013 and 29 / 2014 as technical guidance concerning production development Director General of Mol Reg No 26 / 2013 as technical guidance for verification by surveyor ESDM Reg No 13 / 2020	No
Environment	Noise regulation	MoEF ECE R51.02 in October 2021 *VTCC testing facility based on UNR 51.02 will be ready in 2022	No

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	SNI vehicle identification (revision from 1989)	SNI 09-1411-2000	No
Mixed	Requirement for VIN	SNI 09-1411-2000 §5.3	No
Mixed	Mandatory equipment with first aid kit (DIN 13164 ex works)	Law 22 / 2009 Art 57 Law 22 / 2009 Art 58	Yes
Aftersales	SNI certification and marking of spare parts (rims, tyres, batteries, vehicle glazing, audio / video components)	Law 20 of 2014 on the Standardization and Conformity Assessment (Framework Regulation for the SNI Certification)	Yes
Aftersales	Primary Battery	MoI No 36 Year 2009 SNI 04-2015.1-2004 SNI 04-2015.2-2004	Yes
Aftersales	Rim, with or without tyre	MoI 50/2012 MoI 113/2012	Yes (The regulation focuses on rims, but since the rim is related to the tyre, therefore rim fitted with tyre will be SNI mandatory)
Aftersales	Tempered safety glass	MoI No 80 Year 2015 SNI 15-0048-2005 / Amd 1:2014	Yes
	Laminated safety glass	MoI No 80 Year 2015 SNI 15-1326-2005	Yes
Aftersales	Tyre passenger	MoI No 58 / M-IND / PER / 5 / 201211 Year 2012 completed by MoI 27 / M-IND / PER / 5 / 2013 SNI 06-0098-2002	Yes (The regulation actually focuses on tyres, but since tyres are related to the rim, therefore tyres fitted on the rim will be SNI mandatory)
Aftersales	Inner tube for passenger, light truck, truck and bus and motorcycle	MoI No 58 / M-IND / PER / 5 / 201211 Year 2012 completed by MoI 27 / M-IND / PER / 5 / 2013 SNI 06-6700-2002	Yes
Aftersales	Tyre fitted on rim	MoI No 58 / M-IND / PER / 5 / 201211 Year 2012 completed by MoI 27 / M-IND / PER / 5 / 2013 SNI 06-0098-2002	Yes (The regulation actually focuses on tyres, but since tyres are related to the rim, therefore tyres fitted on the rim will be SNI mandatory)
Aftersales	Implementation of Indonesian national standards for tyres	76/M-IND/PER/9/2015	

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Import of tyres	77/M-DAG/PER/11/2016 (R77) Regulation of the Minister of Trade of the Republic of Indonesia concerning provisions of tyre import	
Aftersales	Audio Video	MoI No 15 / 2018 SNI 04-6253-2003	Yes
Aftersales	Rim, with or without tyre	59/M-IND/PER/5/2012 SNI 1896:2008	Yes
Mixed	Technical and road performance requirements for vehicles	Law of Republic of Indonesia No 22 / 2009 concerning road traffic and transportation	
Mixed	General requirements for vehicles	Government Regulation (PP) No 55 / 2012	
Mixed	Characteristics of the SNI marking	Peraturan Badan Standardisasi Nasional Nomor 2 Tahun 2017	
Radio	Automotive short-range radar systems	PERDIRJEN SDPPI No 3 Tahun 2020	Yes
Radio	Radio type approval regulation	Regulation of Minister of Communications and Informatics No 7 / 2018 (Nomor 7 Tahun 2018)	Yes
Radio	Radio type approval regulation	Regulation of the Minister of Communication and Information Technology No 16 / 2018 concerning operational provisions for certification of telecommunication equipment and/or equipment (Nomor 16 Tahun 2018)	Yes
Radio	Technical requirements for short range devices	PERDIRJEN SDPPI Nomor 161 Tahun 2019 concerning technical requirements for telecommunication tools and/or short range devices	Yes



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STANDARDS OF MALAYSIA ACT 1996 (ACT NO 549)

National Standards Body (NSB) and National Accreditation Body (NAB)

DSM

Department of Standards Malaysia

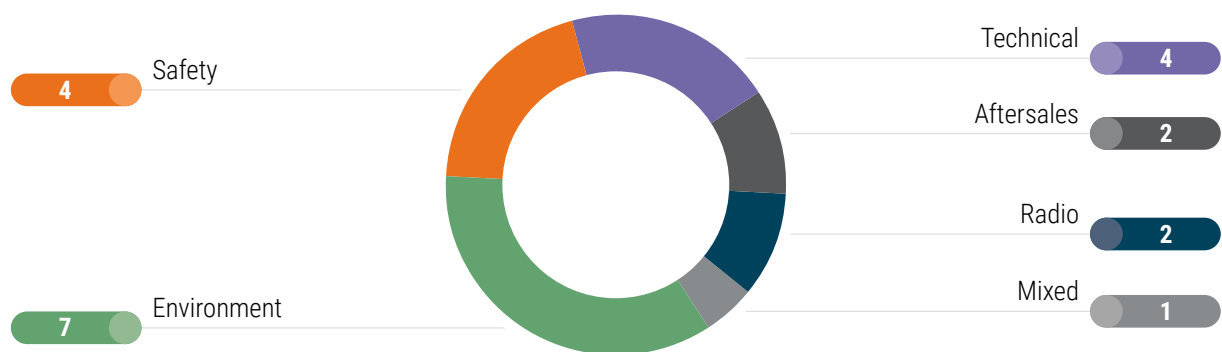
Government department under the Malaysian ministry of transport

JPJ

Road Transport Department

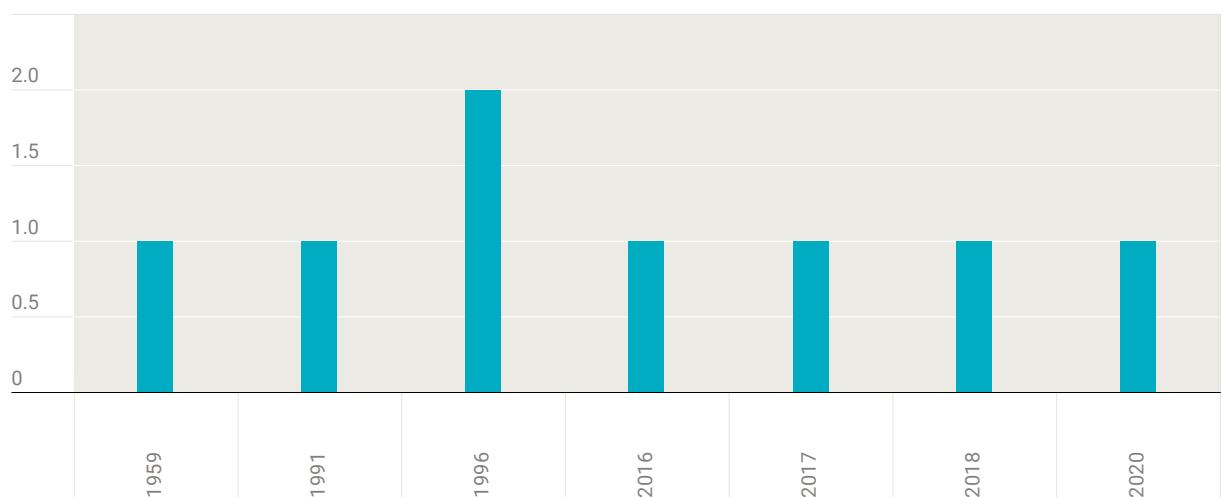
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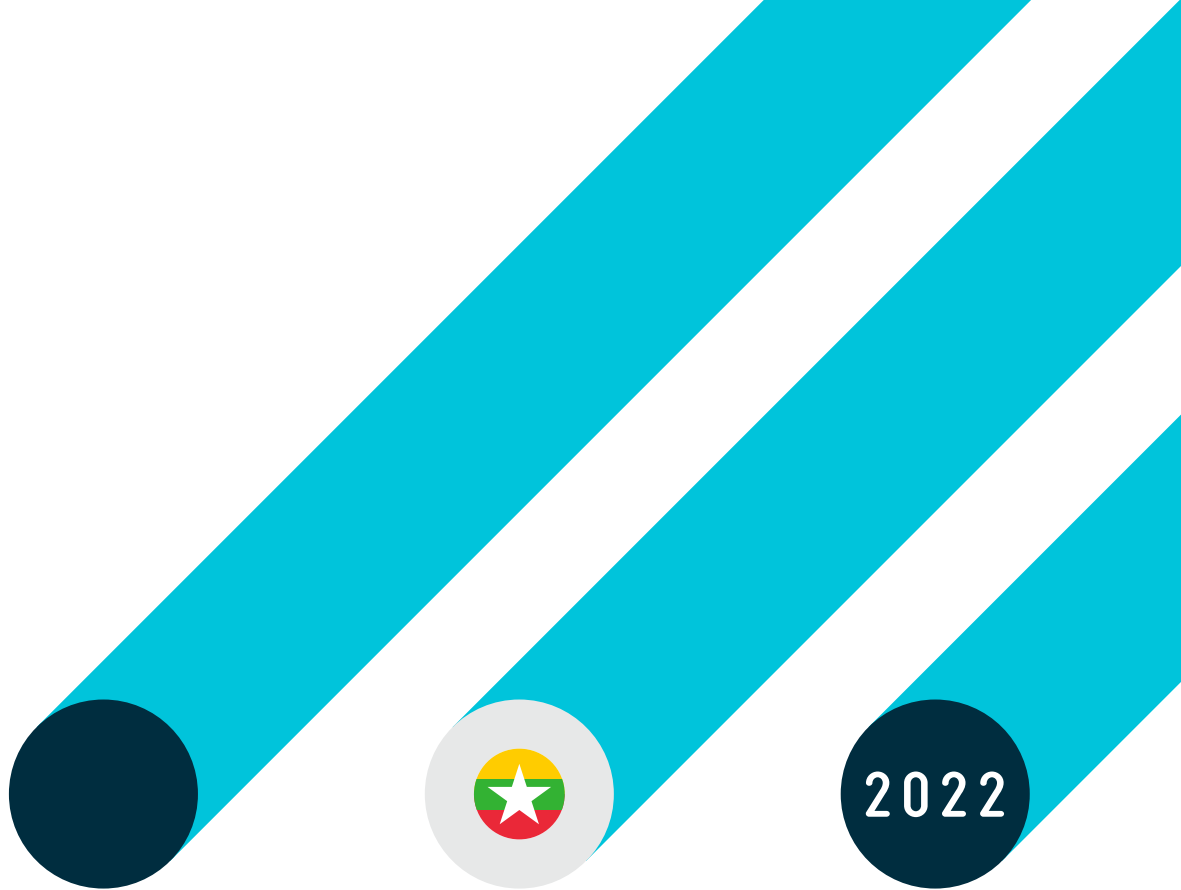
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Item	Subject	Regulatory Act	Applicability to spare parts
Vehicle Type Approval Scheme Malaysia is a contracting party of the UN 1958 Agreement and as such is obliged to accept the vehicle type approval scheme under the UN Regulation and 1958 Agreement.			
Safety	Requirements for pedestrian protection (if required SA 8TF control for NT)	VTA Guideline 2020: ECE-127.00	No
Technical	Installation of light and light signalling devices	L.N. 170 / 1959 9A, 25, 26, 32, 71, 72, 73, 96, 98, 99, 101, Anh. 1, Anh. 3 VTA Guideline 2017: ECE-48 series 03/05	No
Safety	Requirement for safety glass	P.U. (A) 39 / 1991 / VTA Guideline 2017: ECE-43.00	Yes
Technical	eCall Malaysia (study on hold)	Malaysian Institute of Road Safety Research (MIROS) & Telekom Malaysia Berhad (TM) 2018 / ECE-144 (study)	
Safety	Safety glass	Trade Description (Marking of Safety Glass For Motor Vehicles) Order 2017 / Adopted ECE.43	
Technical	Tyres	Trade Descriptions (Marking of Pneumatic Tyre) Order 2012 / Adopted ECE-30	
Safety	Seat belts	Motor Vehicle (safety seat belts) Rules 1978 / Adopted ECE-16 & 14	
Technical	Motor vehicle construction rules	Motor vehicles (construction and use) rules 1959 [LN 170/1959]	
Environment	Requirement EU2	Environmental Quality Act 1996	No
Environment	Requirement Euro 4 - gasoline: new models 01.01.2020, existing models 07.01.2022 - diesel: new models 10.01.2022, existing models 04.01.2024	Adopted ECE-83.05b	No
Environment	OBD & EVAP requirement Gasoline: Euro 4 (OBD optional, without EVAP) Diesel: Euro 4 (OBD optional)	Adopted ECE-83.05b	No
Environment	Requirement for exhaust location	Environmental Quality Act 1996	No
Environment	Tax benefits for Energy Efficient Vehicles (EEV)	MARii EEV (NAP 2020)	No
Environment	CO2 initiatives and fuel efficiency for petrol engines through VTA	UN R101 / MS 2722:2021 EEV	No
Environment	CO2 initiatives and fuel efficiency application of EEV incentive	MARii EEV (NAP 2020)	

Item	Subject	Regulatory Act	Applicability to spare parts
Vehicle Type Approval Scheme Malaysia is a contracting party of the UN 1958 Agreement and as such is obliged to accept the vehicle type approval scheme under the UN Regulation and 1958 Agreement.			
Aftersales	Brake linings	Trade descriptions (Marking of replacement part of brake lining) Order 2014	Yes
Aftersales	Import to Malaysia, relevant for several automotive products, such as tyres, safety belts, chassis etc.	Customs (prohibition of imports) Order 2017	Yes
Mixed	Road transport	Road Transport Act 1987	
Radio	Approval of communication equipment	Communications and Multimedia (Technical Standards) Regulations 2000	Yes
Radio	Specification for Short Range Devices Radio systems, short range devices, radar systems	MTSFB TC 007:2020 (cancels and replaces the MCMC MTSFB TC T007:2014)	Yes



MYANMAR

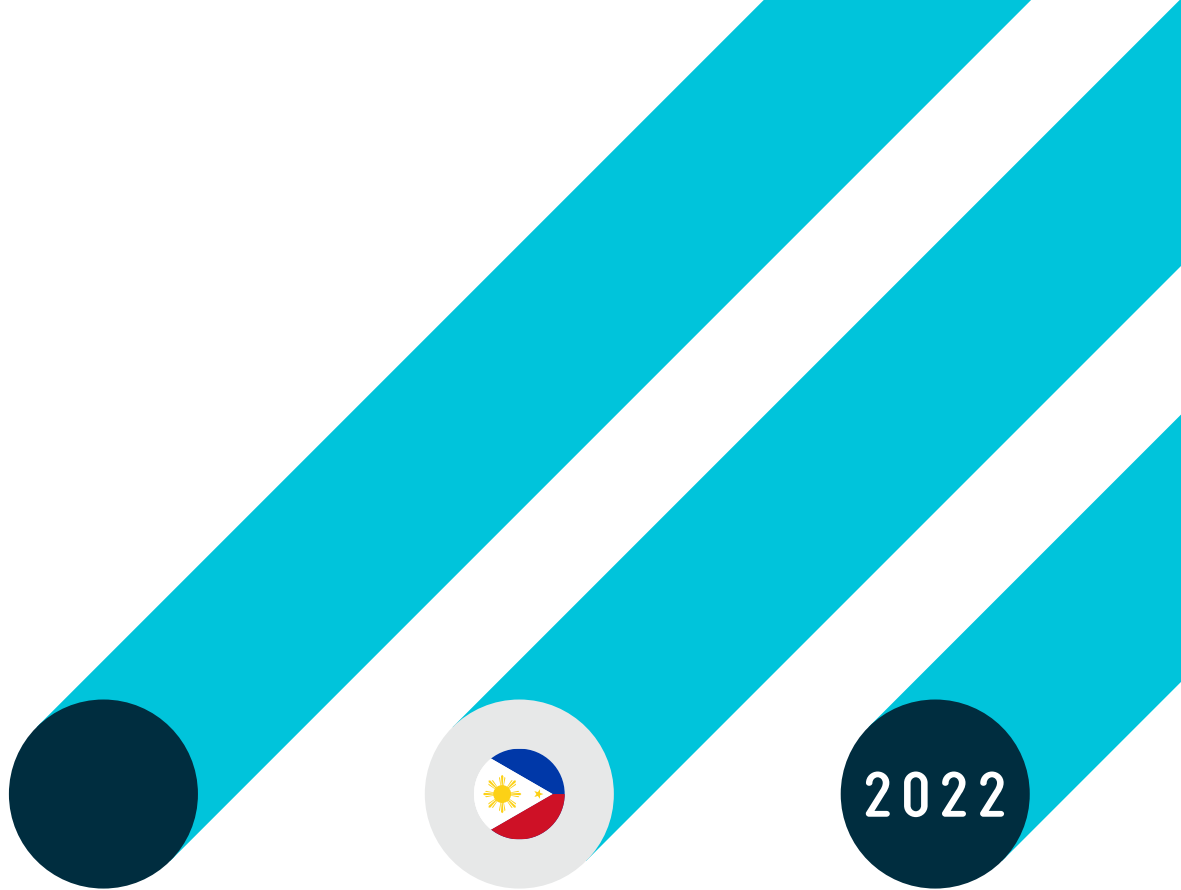


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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Seat belt anchorage	UN R14	Yes
Safety	Seat belt	UN R16	Yes
Safety	Braking system / Braking system - passenger car	UN R13 / R13H (Voluntary)	Yes
Safety	Mirror	UN R46 (Voluntary)	Yes
Safety	Horn	UN R28 (Voluntary)	Yes
Safety	Seat / Head Restraint	UN R17 / UN R25 (Voluntary)	Yes
Technical	Speedometer	UN R39 (Voluntary)	Yes
Safety	Steering equipment	UN R79 (Voluntary)	Yes
Technical	Pneumatic tyres (passenger car / commercial trucks)	UN R30 / UN R54 (Voluntary)	Yes
Environment	Noise emission	UN R51 (Voluntary)	
Environment	Introduction of emission standard Euro 4 - gasoline: starting 01/01/2023 (TBC) - diesel: starting 01/01/2023 (TBC)	UN R83.05b (on plan)	
Mixed	General provisions on automotive policy in Myanmar, covering, inter alia, certificates of approval, import of left-hand drive vehicles and acceptance of UNECE	Automotive policy of the government of the Republic of the Union of Myanmar of May 2019	
Radio	Requirements for short range devices	Technical Specifications of Short Range Device (SRD) of 17.07.2016	Yes



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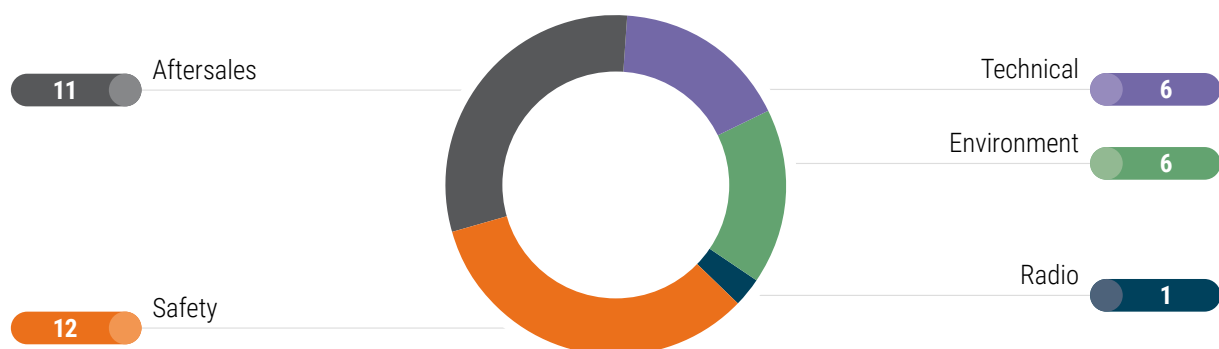
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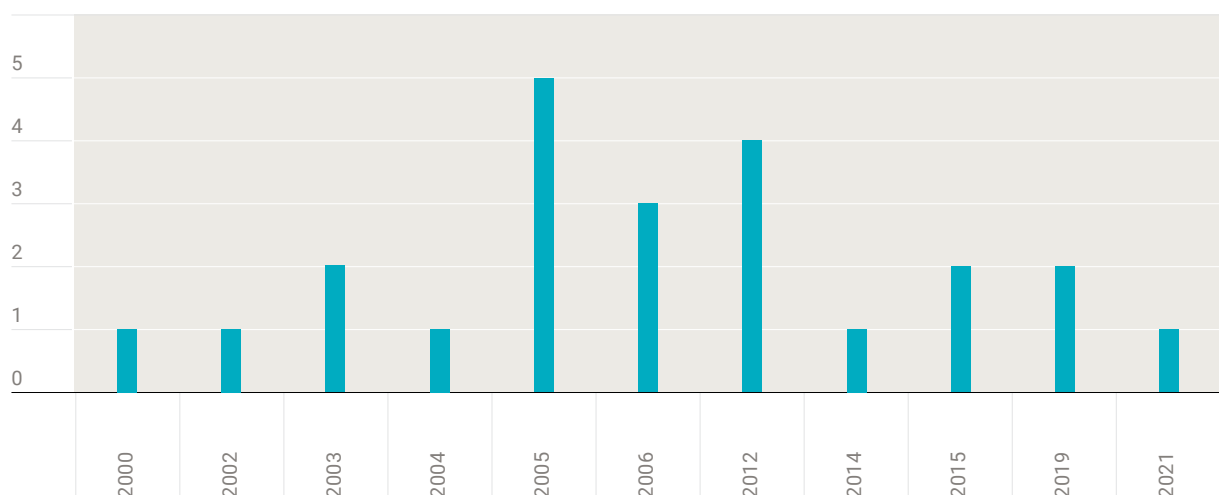
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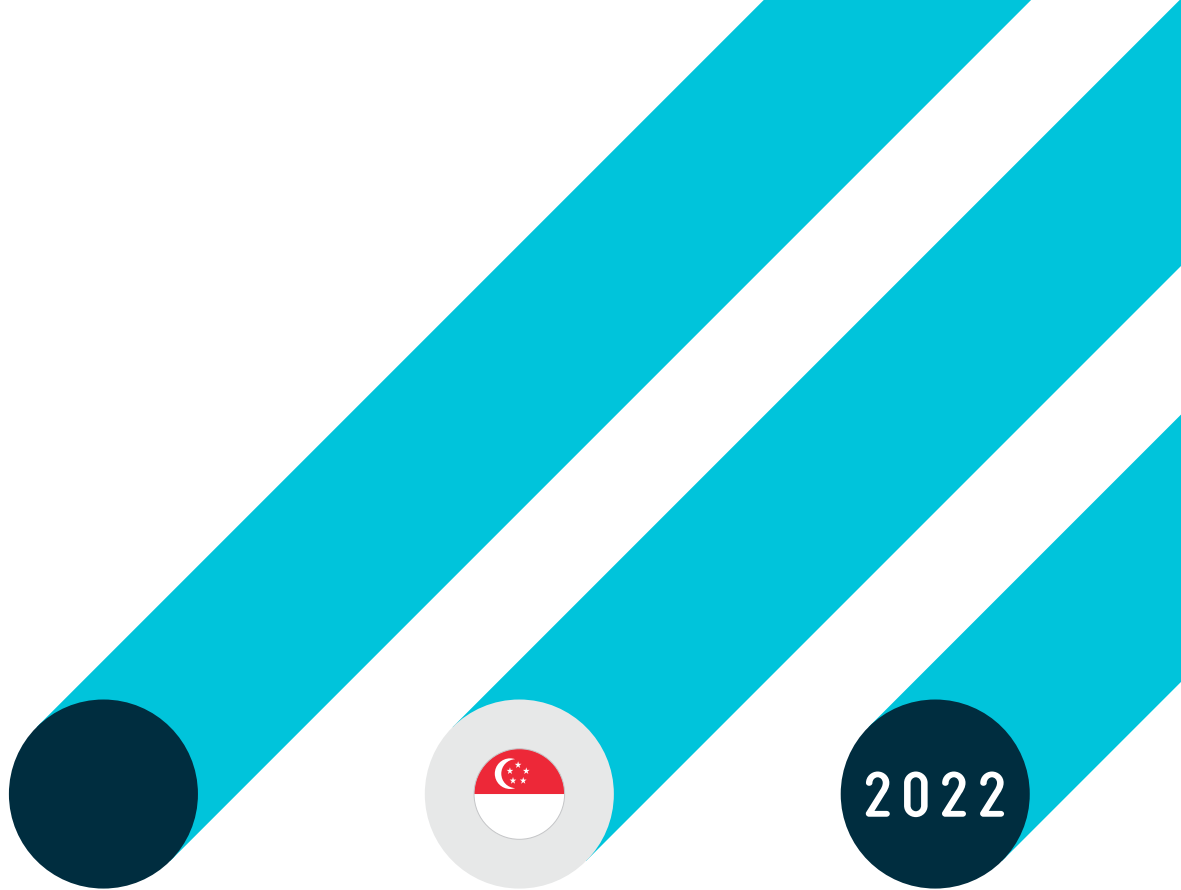
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Braking system	PNS UN R13 (2005)	Yes
Safety	Braking system (passenger cars)	PNS UN R13H (2005)	Yes
Safety	Seat belt	PNS 1892 AMD.1-2002	Yes
Safety	Safety glass	PNS 130:2004	Yes
Safety	On-board rechargeable energy storage system	PNS ISO 6469-1:2012	
Safety	Vehicle operational safety means and protection against failures	PNS ISO 6469-2:2012	
Safety	Protection of persons against electric hazards	PNS ISO 6469-3:2012	
Safety	Post crash electrical safety	PNS ISO 6469-4:2012	
Technical	Seat belt anchorage	PNS 1893:2000	
Safety	Seats	PNS UN R17	
Technical	Head restraint	PNS R25-2003	Yes
Technical	Speedometer	PNS UN R39:2006	Yes
Safety	Rear view mirror Indirect vision	PNS UN R46	Yes
Environment	Sound / noise emission	PNS UN R51:2005	No
Safety	Steering equipment	PNS UN R79:2005	No
Safety	Audible warning device	PNS UN R28:2006	Yes
Technical	Tyres	UN R30	Yes
Technical	Tyres (commercial vehicles)	PNS UN R30:2008	Yes
Environment	Exhaust emission standard Euro 4 (Heavy duty vehicle)	DAO No 2015-04 / DAO-2016-23 Ref UN R49-04	No

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Exhaust emission standard Euro4 (Light duty vehicle)	DAO 2015-04 / DAO-2016-23 Ref UN-R83-05B	
Environment	CO2 Initiatives & Fuel Efficiency / DOE VFEL CO2 label - IRR (Implementing Rules and Regulation) expected release October 2019 - separate Guidelines shall be provided for transport vehicle	Republic Act 11285 Energy Efficiency and Conservation Act signed on 12.04.2019	
Aftersales	Brake fluid container	Department of Energy: Department Circular No 2014-01-0001	Yes
Aftersales	Liquefied Petroleum Gas (LPG)	Republic Act 623 as amended by RA 5700 Republic Act 8293	Yes
Radio	Radio frequency equipment	National Telecommunications Commission Philippine Table of Frequency Allocations (NRFAT) Rev 2019 Radio Control Act 3846 Memorandum Circular 03.05.2007	Yes
Aftersales	Technical regulations concerning the mandatory product certification of automotive product: Motor vehicle brake fluids, Road vehicle safety belts, Pneumatic tyres, Pneumatic tubes, Lead-acid storage batteries, Lithium-ion batteries, Audible warning device, Rear view mirrors, Head restraint, Safety glazing materials, Retroreflecting devices, Filament lamps, Headlamps, Front position lamps, rear position lamps, stop lamps, direction indicator lamps, and rear registration plate illuminating devices)	Draft Department Administrative Order on Automotive Products as of 10.09.2021 G/TBT/N/PHL/265	Yes
Environment	Framework regulation on emissions and air quality	Philippine Clean Air of 1999	
Aftersales	Safety belts	Department Administrative Order No 04, Series of 2002 Mandatory implementation of Philippine national standard for safety belts and restraint system	Yes
Aftersales	Safety glass for automotive	Department Administrative Order No 11 - 03, Series of 2011 Mandatory PNS for safety glass and pneumatic tyres	Yes
Aftersales	Lead-acid storage batteries	Implementing Guidelines for the issuance of Philippine Standard (PS) Safety certification mark license for lead-acid storage batteries Memorandum Order No 19-718, series of 2019 Amended Guidelines for the mandatory certification of lead acid storage battery	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Aftersales	Rubber inner tubes for pneumatic tyres	Department Administrative Order No 04, Series of 2000 Mandatory PNS for Safety Mmatches, Rubber Inner tubes and Sanitary wares Department Administrative Order No 4, Series of 1996 Mandatory PNS for various products	Yes
Aftersales	Pneumatic tyres	Department Administrative Order No11-03, Series of 2011 Mandatory PNS for safety glass and pneumatic tyres Department Administrative Order No 6, Series of 1995 Mandatory implementation of Philippine National Standard for pneumatic tyres covered by PNS 25:1994	Yes
Aftersales	Pneumatic tyres	Planned: PNS/UN ECE 30:2010 = UN Reg 30 PNS/UN ECE 54:2010 = UN Reg 54 PNS/UN ECE 75:2007 (based on UN Reg 75)	Yes
Aftersales	Speed limitation devices	Department Administrative Order (DAO) No 19-14, Series of 2019 Technical regulation concerning the mandatory product certification of Speed Limitation Devices (SLD) and Adjustable Speed Limitation Devices (ASLD)	Yes
Aftersales	LPG cylinders for motor vehicles	Department Administrative Order No 12, Series of 2008 Mandatory Philippine national standard related to the use of LPG and CNG in motor vehicles	Yes



SINGAPORE



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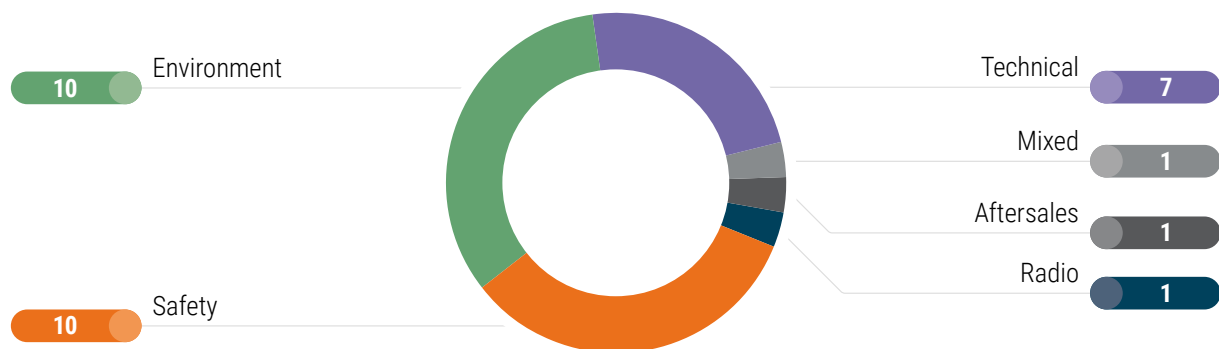
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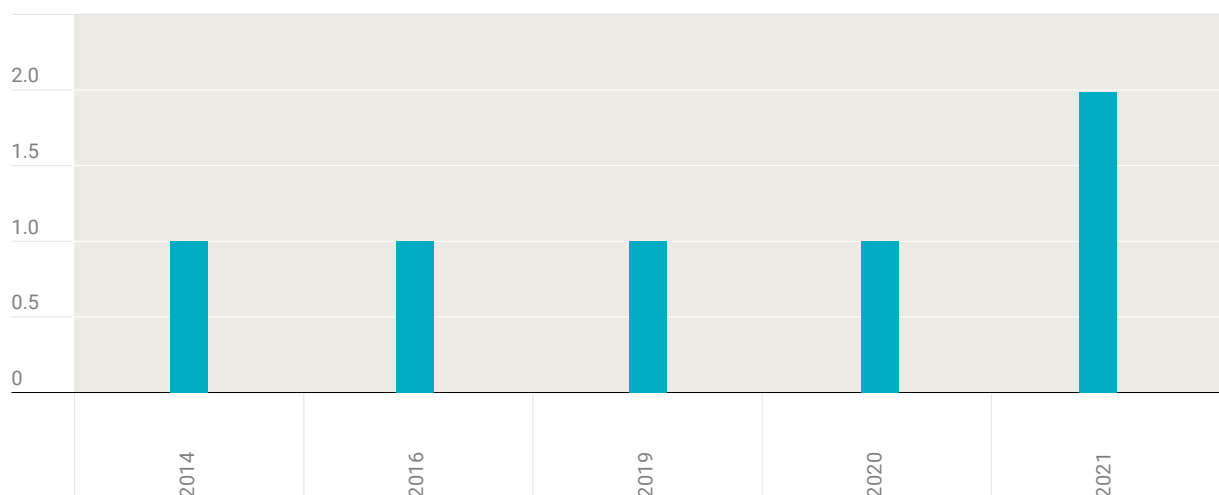
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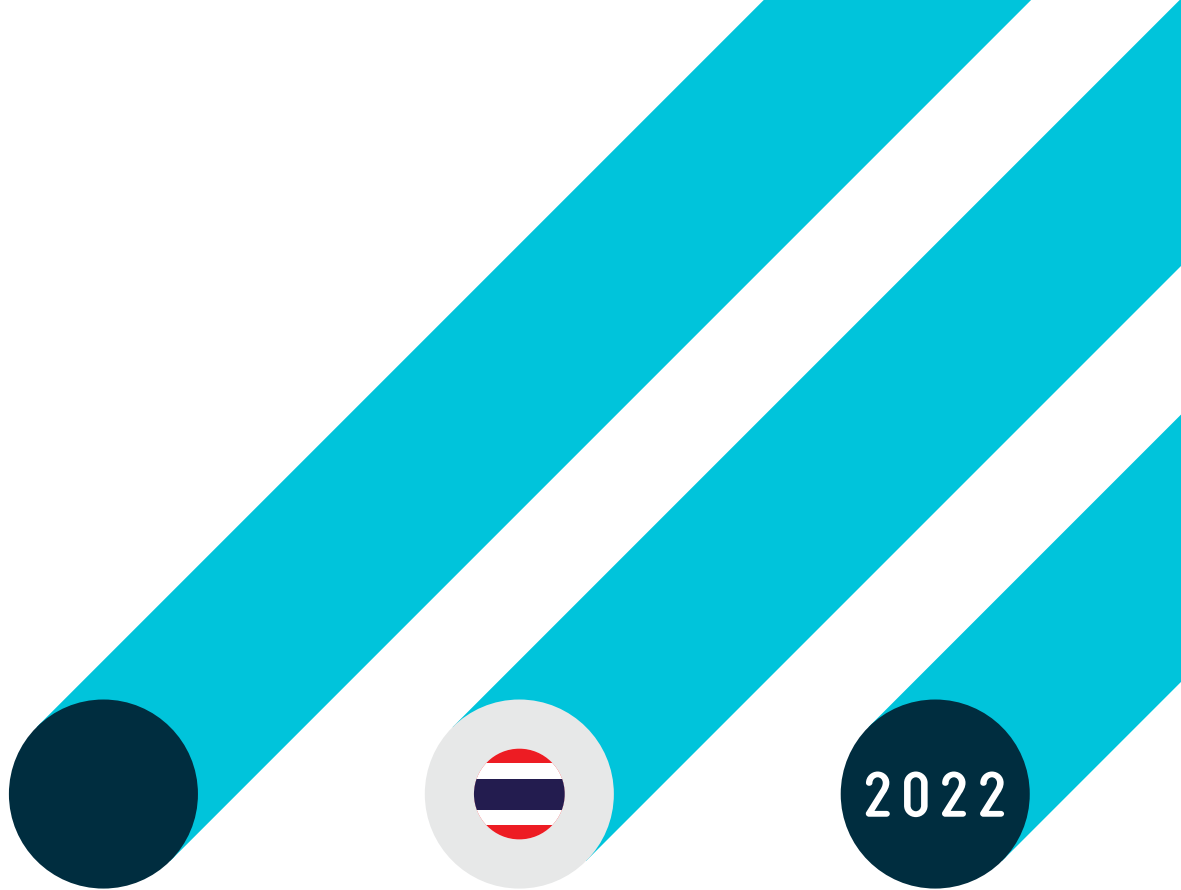
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Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Mandatory safety technical requirements for Electric Vehicles (EV) charging systems	TR25:2016 Amendment No 01.07.2020	
Technical	Requirement for installation of lighting devices	S 346 / 74	No
Technical	Requirement for safety glass	LTA / VE / V28.003.000	No
Technical	Requirement for TV / Video in driver's field of vision	S 345 Part IV 126 The Motor Vehicles Rules (1974)	No
Safety	Braking system	UN R13	Yes
Safety	Braking system (passenger car)	UN R13H	Yes
Safety	Seats	UN R17	Yes
Safety	Head restraints	UN R25	Yes
Technical	Speedometer (L category)	UN R39	Yes
Safety	Rear view mirror	UN R46	Yes
Safety	Steering system	UN R79	Yes
Safety	Audible warning device	UN R28	Yes
Safety	Seat belt anchorage	UN R14	Yes
Safety	Seat belt	UN R16	Yes
Technical	Pneumatic tyre (passenger cars)	UN R30	Yes
Technical	Pneumatic tyre (commercial vehicles)	UN R54	Yes
Environment	Requirement for exhaust location	The motor vehicle rules (construction and use) (Amendment No 2) Rules	No
Environment	Introduction of EU 6c emissions standard (particle number limit)	6 th Emission Standard National Environment Agency 30.12.2014	
Environment	Control of pollution and waste, including for hazardous substances	Environment protection and Management Act (EPMA)	
Environment	Compulsory acceptance of emission results from Worldwide Harmonized Light Vehicles Test Procedure (WLTP)	From 01.01.2019 NEA Announcement (National Environment Agency)	



Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Noise emissions	UN R51 / UN R51.03 (April 2023-Passenger car); (April 2024-Commercial vehicle)	No
Environment	Diesel emissions	UN R49	No
Environment	Exhaust emissions	UN R83 (follow EU emission standard)	No
Environment	Tighten the particle number (PN) limit for gasoline direct injection (GDI) vehicles from 6×10^{12} to 6×10^{11} from 01.09.2021.	Draft Environmental Protection and Management (Vehicular Emissions) (Amendment) Regulations 2021 G/TBT/N/SGP/55	01.09.2021 – not in force yet [as of 22.12.2021]
Mixed	Acceptance on the Singaporean market of new EU vehicles and parts which are covered by an EC or UNECE type-approval certificate without further testing or marking requirements	EU-Singapore Free Trade Agreement (Annex 2-B Motor vehicles and parts thereof)	
Radio	Requirements for Short Range Devices (SRD)	Short Range Devices (SRD) technical specification - IMDA TS SRD Issue 1 Revision 2, August 2021 version	Yes
Aftersales	Import license requirement for airbags and seatbelts	Arms and Explosive Act	Yes



THAILAND



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INDUSTRIAL PRODUCT STANDARDS ACT B.E.2511 (1968)

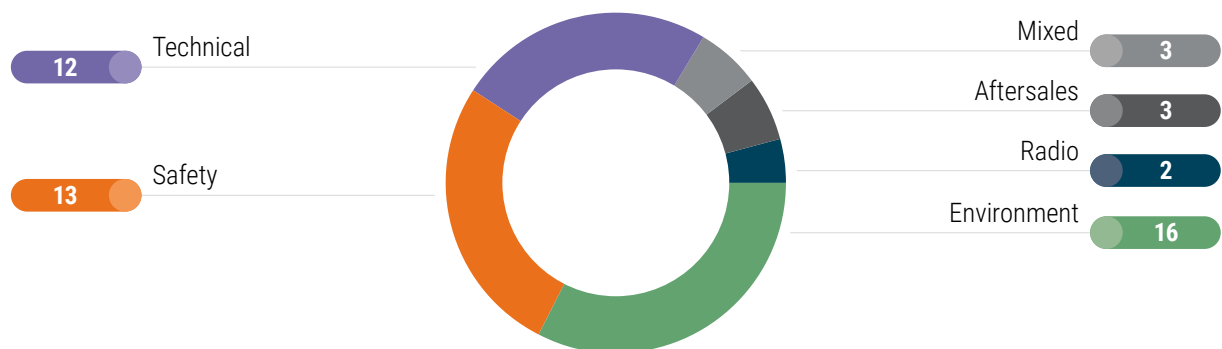
National Standards Organisation - Governmental Agency within the Ministry of Industry
TISI Thai Industrial Standards Institute

TIS Thai Industrial Standards

GOVERNMENT AGENCY WITHIN THE MINISTRY OF TRANSPORT
DLT Department of Land Transport

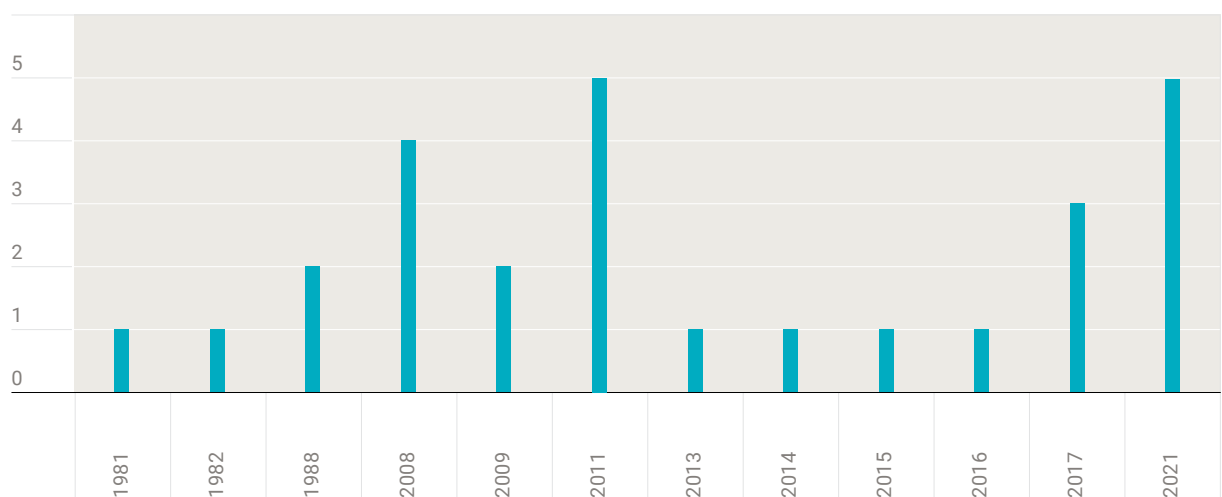
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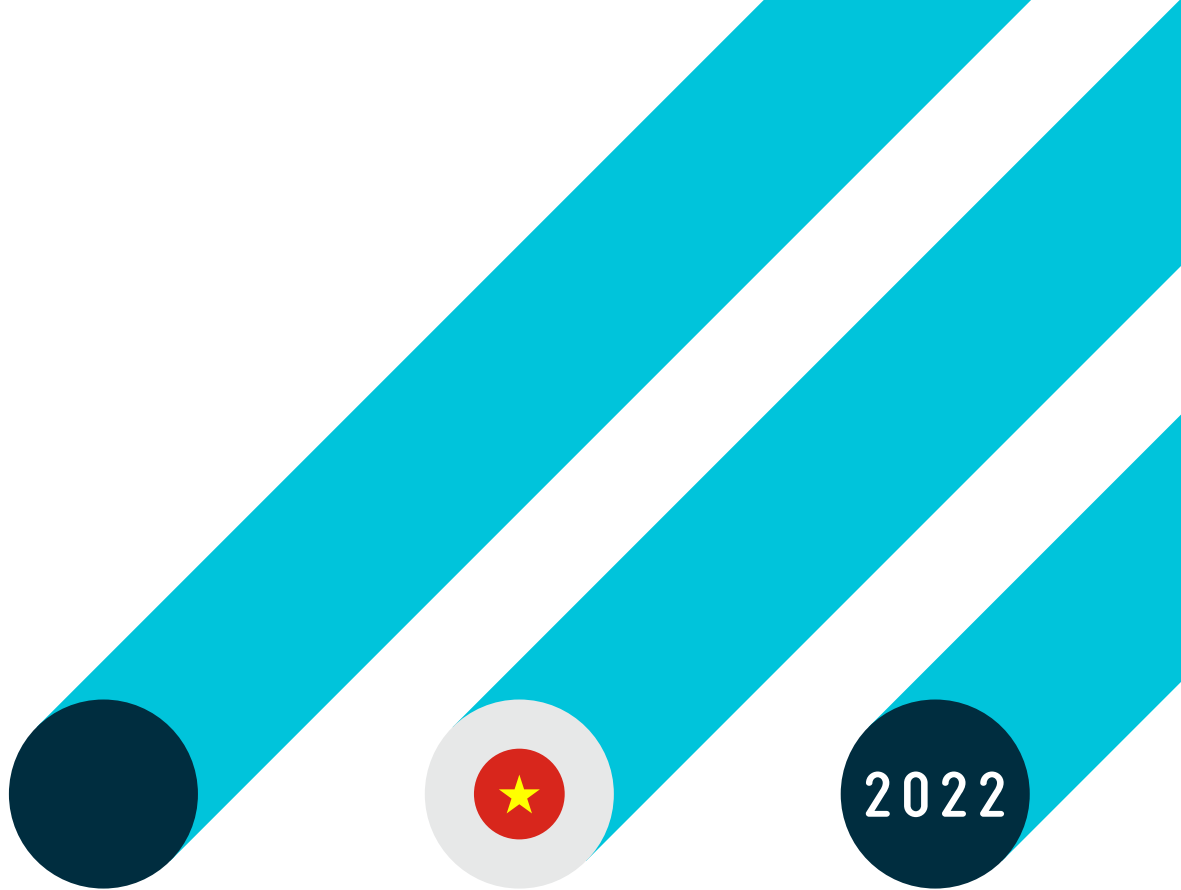


Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Requirement for seats, seat anchorages and headrests (Passenger transportation vehicles, M2, M3, N)	DLT Notice B.E. 2562 UN R17, UN R14	No
Safety	Safety glazing materials for vehicles	TIS 2602-2556 (2013) UN R43	Yes
Safety	Seat belts	TIS 721-2551 (2008) DLT Notice B.E. 2562 (UN R16.06) New Model: 01.01.2020 All Model: 01.01.2022	Yes
Safety	Seat belt anchorage (M1, N1)	DLT Notice B.E. 2560 (UN R14.07) ; TIS 1467-2550 New Model: 01.01.2020 All Model: 01.01.2022	Yes
Safety	Seats (M1, N1)	DLT Notice B.E. 2560 (UN R17.08) ; TIS 896-2549 New Model: 01.01.2020 All Model: 01.01.2022	
Safety	Head restraints (M1, N1)	DLT Notice B.E. 2560 (UN R25.03) ; TIS 896-2549 New Model: 01.01.2020 All Model: 01.01.2022	Yes
Safety	Steering equipment (M1, N1)	UN R79.03 (Draft) New model: 01.01.2025 All models: 01.01.2027	Yes
Technical	Brake lining for vehicles	TIS 97-2557 (2014)	
Technical	Transmission chain	TIS 418-2525 (1982)	
Technical	Liquefied petroleum gas cylinder for internal combustion engines	TIS 370-2552 (2009)	
Technical	Tinted float glass	TIS 1344-2560 (2017)	
Technical	Gas tank for passenger cars	TIS 830-2531 (1988)	
Technical	Small size water cooled diesel engines	TIS 787-2551 (2008)	
Technical	Two-stroke gasoline engine lubricating oil	TIS 1040-2541 (1998)	
Technical	Warning devices	DLT Notice B.E. 2559 (UN R28.00) M1 & N1: New model: 01.01.2019 All model: 01.01.2021 L3: New model: 01.01.2018 All model: 01.01.2020	Yes
Technical	Passenger vehicle tyres	UN R30 TIS 2718-2560 (2017)	Yes
Technical	Commercial vehicle tyres	UN R54 TIS 2719-2560 (2017)	Yes

Item	Subject	Regulatory Act	Applicability to spare parts
Technical	Speedometer	DLT Notice B.E. 2556 UN R39	Yes
Safety	Braking system (M1, N1)	UN R13/R13H (Draft) Issued Plan: 2021 New Model: 01.01.2023 All Model: 01.01.2025	Yes
Safety	Braking system (passenger transportation vehicles, M2, M3, N)	UN R13: 2023 with ABS, 2024 with ESC	Yes
Safety	Mandatory equipment of all seating positions with seat belt or restraint system and seat alert (except folding seat) (passenger transportation vehicles, M2, M3, N)	UN R16 B.E. 2560	Yes
Environment	Introduction of emission standard Euro 4, testing method	TIS 2560-2554 (2011)	
Environment	EVAP requirements, testing method	TIS 2560-2554 (2011)	
Environment	Exhaust emission Emission standards Euro 5 within 2024	UN R83.06	No
Environment	Emission Standards Euro 6 (TBC)	UN R83.07	No
Environment	OBD & EVAP requirement - gasoline: Euro 4 (with OBD & EVAP) - diesel: Euro 5b (with OBD & EVAP) Euro 6b (with OBD & EVAP)		
Environment	Change in excise duty rates	-	No
Environment	Requirement for use of local language in owners manual	BE 2522	
Environment	Heavy motor vehicle equipped with compression ignition engines; safety requirement; emission from engine	TIS 2315-2551 (2008)	
Environment	Safety requirements for heavy motor vehicle equipped with position ignition engines fueled with natural gas or liquefied petroleum gas, emission from engine	TIS 2320-2552 (2009)	
Environment	Passenger cars powered by an internal combustion engine or hybrid cars M1 and N1 vehicle powered by electric Emission of carbon dioxide, fuel Consumption, electric energy consumption and electric range	TIS 2335-2558 (2015)	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Safety requirements for positive ignition engine vehicles Emissions from engine	TIS 2540-2554 (2011)	
Environment	Safety requirements for light-duty compress ignition engine vehicles Emissions from engine	TIS 2550-2554 (2011)	
Environment	Safety requirements for light motor vehicles equipped with positive ignition engines fuelled with natural gas or liquefied petroleum gas	TIS 2555-2554 (2011)	
Environment	Noise (light duty vehicle M1, N1)	UN R51.02 Enforcement: New model: 01.01.2019 Existing model: 01.01.2021	No
Mixed	Tyre noise	UN R117, TIS-2721-2560	No
Environment	Current requirement is CO2-based Excise tax structure	UN R101	No
Environment	Exhaust emission (L category) National requirement: Type 1 test accept only NEDC mode. Evapo test limit value 2g / test.	EC97 / 24	
Environment	Sound emissions	UN R51.02 New model: 01.01.2019 All model: 01.01.2021	
Mixed	Motor Vehicle Act	Motor Vehicle Act (2522) or MVA - transfer from Royal Police in 1988 - cover motorcycle (L3), motor tricycle (Tuk-Tuk), passenger car (M1), pick-up truck (N1)	
Mixed	Land Transport Act	Land Transport Act (2522) or LTA - cover bus and truck	
After-sales	Framework regulation for the TIS conformity assessment	Industrial Product Standards Act, B.E. 2511 (1968)	
After-sales	Details of the TIS conformity assessment	Notification of the Thai Industrial Standards Institute („TISI“) regarding the rules and procedures on conformity assessment for licensing and surveillance, Amendment No1, B.E. 2560 (2017)	
After-sales	Exemption for low volume imports of some vehicle spare parts	"Low Volume" import regulation	

Item	Subject	Regulatory Act	Applicability to spare parts
Safety	Lateral collision	Draft Ministerial Regulation on vehicles with regard to the protection of the occupants in the event of a lateral collision (TIS 2399-256X(202X)) G/TBT/N/THA/587	
Safety	Frontal collision	Draft Ministerial Regulation on vehicles with regard to the protection of the occupants in the event of a frontal collision (TIS 2400-256X(202X)) G/TBT/N/THA/586	
Safety	Retreaded pneumatic tyres	Draft Ministerial Regulation on retreaded pneumatic tyres for commercial vehicles and their trailers (TIS 2979-2562(2019)) G/TBT/N/THA/588	
Radio	Radio type approval	Notification of the National Telecommunications Commission Re: Conformity Assessment of Telecommunication Equipment (NBTC approval)	
Radio	Radio equipment labelling	Regulations for selling radio communication equipment as per act B.E.2498	



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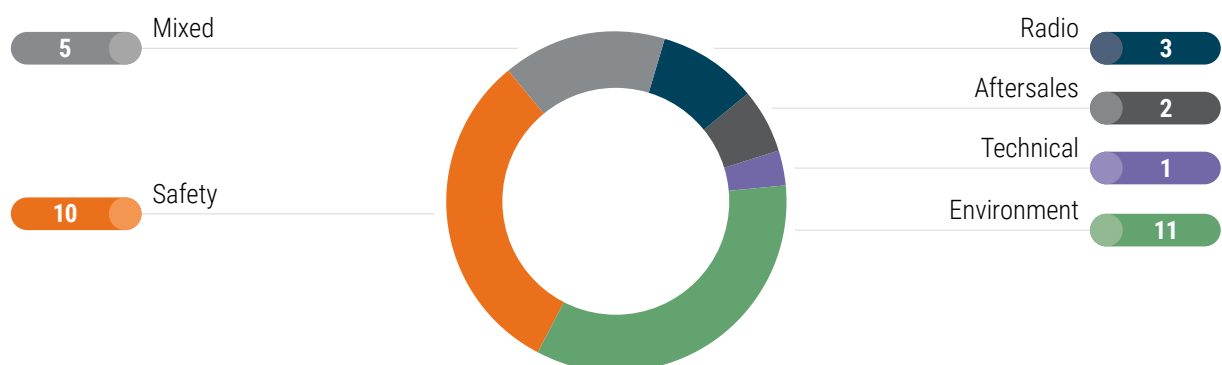
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GOVERNMENT AGENCY FOR INFORMATION MIC Ministry of Information and Communication	
GOVERNMENT AGENCY FOR ISSUING AND MANAGING NATIONAL STANDARDS MOST Ministry of Science and Technology	
QCVN National Technical Regulation	• applied mandatory • placed in the highest position of the standards • provides basic requirements to be complied with by every project
NATIONAL STANDARDS BODY UNDER MOST STAMEQ Directorate for Standards, Metrology, and Quality	
TCVN National Technical Standards	• applied voluntarily • shows provisions to be referred to by respective projects

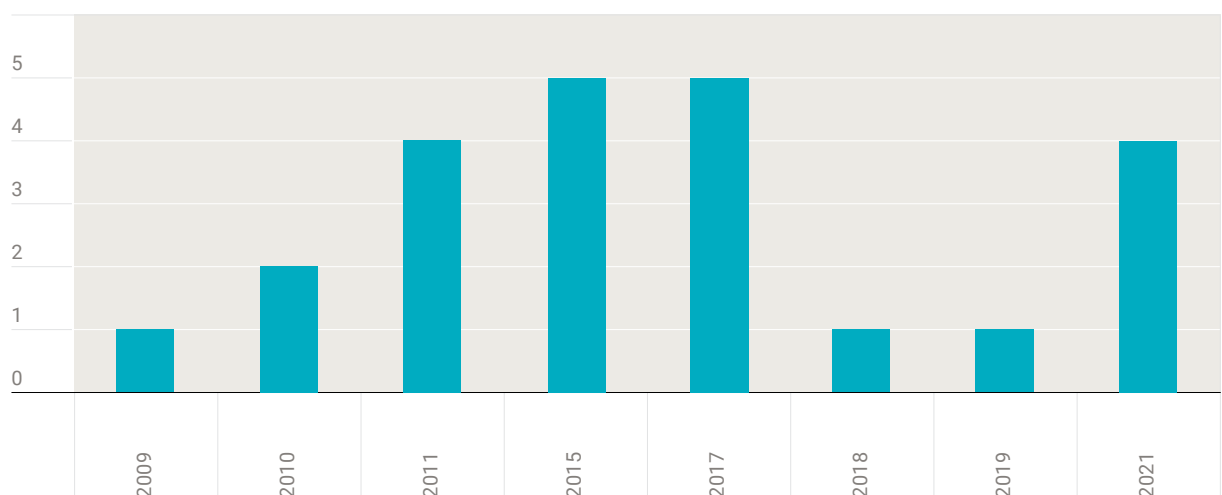
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Safety	List of applicable technical regulations for passenger cars and spare parts	Circular 41/2018/TT-BGTVT on the List of potentially unsafe products and goods	Yes
Safety	Technical safety and environmental protection for automobiles	QCVN 09:2011 BGTVT	Yes
Safety	Technical safety and environmental protection for city passenger vehicles	QCVN 10:2015/BGTVT	Yes
Safety	Safety glass	QCVN 32:2017 / BGTVT Adopted UN R43	Yes
Safety	Technical regulation on safety and environmental protection for trailer and semi-trailer	QCVN 11:2015/BGTVT	Yes
Safety	Technical regulation on urban buses designed for easy access for disabled people	QCVN 82:2014/BGTVT	Yes
Safety	Headlamp	QCVN 35:2017/BGTVT Draft QCVN 35:2021/BGTVT Adopted UN R123 Rev.02 & R149 Rev.03	Yes
Technical	Tyre (passenger cars)	QCVN 34:2017 / BGTVT Adopted ECE 30 Rev 03	Yes
	Tyre (commercial car)	QCVN 34:2017 / BGTVT Adopted UN R54 Rev 03	Yes
	Tyre (L category)	QCVN 36:2010 / BGTVT Adopted UN R75 Rev 02	Yes
Safety	Devices for indirect vision	QCVN 33:2019 / BGTVT Adopted UN R46 Rev. 06	Yes
Safety	Fuel tank	QCVN 52:2013/BGTVT Adopted UN R34 Rev.01	Yes
Aftersales	Light alloy wheel	QCVN 78:2014/BGTVT Adopted UN R124 Sup.1	Yes
Environment	Emissions standard Euro 4	Governmental decision No 49 / 2011 / QD-TTg (Application roadmap)	
Environment	On-Board Diagnostic (OBD) and EVAP requirements Gasoline: Euro 4 (no requirement) Diesel: Euro 5 (requirement not yet clear)	QCVN 86:2015 / BGTVT QCVN 109:2021/BGTVT Adopted UN R83 Rev.04 & UN R49 Rev.05	
Environment	Euro 5 emissions	Circular No 06/2021/TT-BGTVT on the promulgation of the national technical standard QCVN 109:2021/BGTVT on Level-5 Emission for newly manufactured, assembled and imported automobiles Adopted UN R83 Rev.04 & UN R49 Rev.05	

Item	Subject	Regulatory Act	Applicability to spare parts
Environment	Max. noise level (at static inspection): Passenger car & trucks, single-purpose vehicles and buses with $G \leq 3,500\text{kg}$: 103dB Trucks, single-purpose vehicles and buses with $G > 3,500\text{kg}$ and $P \leq 150\text{kW}$: 105dB Trucks, single-purpose vehicles and buses with $G > 3,500\text{kg}$ and $P > 150\text{kW}$: 107dB (P is maximum capacity of engine; G is total weight of vehicle)	QCVN 09:2015 BGTVT TCVN 7880: 2016 Based on UN R51 Rev.02	No
Environment	Exhaust emission	QCVN 86:2015 / BGTVT (as amended by the Circular No 33/2020/TT-BGTVT of 23.12.2020) UN R83-05 adopted UN 49 not yet adopted	
Environment	Noise emission	QCVN09:2015/BGTVT TCVN 7880: 2016 Based on UN R51 Rev.02	
Environment	Air pollution control	Directive No 03/CT-TTg on Environmental Air Pollution Controls of 18.01.2021 Decree XX/2021/NĐ-CP (Draft)	
Environment	Sound emission	QCVN 09:2009 / BGTVT Based on UN R51 Rev.02	
Environment	CO2 Initiatives & Fuel Efficiency Current: Labeling regulation (Green label with self-declared Fuel consumption amount and VR verify) Under studying for new regulations on Emission and Fuel consumption limits	Join circular43/2014/TTLT-BGTVT-BCT	
Environment	Recycling Regulation Management of Waste & Discarded Materials	Decree 38 / 2015 / ND-C Decision 16 / 2015 / QD-TTg Decree XX/2021/NĐ-CP (Draft)	
Mixed	Lubricating oils for internal combustion engines	QCVN 14:2018/BKHCN	
Mixed	Requirement for whole vehicle type approval, owner's manual and technical regulations Local car importers need to obtain Vehicle Type Approval (VTA) certificates from the country of origin, which certifies the quality, safety, and environmental protection of imported units in accordance with the current regulations Deletion of Vehicle Type Approval handover requirement, no lot by lot homologation anymore, new CoP process	Decree 116 / 2017 / ND-CP Circular 25:2019/TT-BGTVT & 46:2019/TT-BGTVT (Local build vehicle) Circular 03:2020/TT-BGTVT & 05:2020/TT-BGTVT (Imported vehicle) QCVN 09:2015 BGTVT as supplemented by Decree No 17/2020/ND-CP of 05.02.2020 and by the Circular No 05/2020/TT-BGTVT of 26.02.2021	

Item	Subject	Regulatory Act	Applicability to spare parts
Mixed	Requirement for Vehicle Identification Number (VIN)	Decision 556-DK EN 2011-11-23 TCVN 6580 : 2000 Based on ISO 4030 : 1983 TCVN 6578 : 2000 Based on ISO 3779 : 1977	
Mixed	Technical And Environmental Safety Inspection Of Imported Motor Vehicles certificates required for auto parts such as tyres, rearview mirrors, front lights, and glasses	Circular 03 / 2018 / TT-BGTVT Decree No. 116 / 2017 / ND-CP	
Mixed	Acceptance of ECE certificate or national type approval certificate for component parts (headlight, glass, mirror, tyre) on imported vehicle	EU-Vietnam Free Trade Agreement (Annex 2-B Motor vehicles and parts thereof)	
Aftersales	Labelling of goods	Decree No 43/2017/NĐ-CP of 14.04.2017 as amended by draft Decree (WTO Notification G/TBT/N/VNM/192)	Yes
Radio	List of devices subjected to type approval and declaration of conformity (The list of potentially unsafe commodities under the management of the ministry of information and communications)	Circular 01/2021/TT-BTTTT of 14.05.2021 Circular 11/2020/TT-BTTTT	Yes
Radio	Radio type approval procedure	Circular 30/2011/TT-BTTTT (as amended and supplemented by Circular 15/2018/TT-BTTTT)	Yes
Radio	Vehicle radars that use the 76-77 GHz frequency band	Circular 09/2021/TT-BTTTT QCVN 124:2021/BTTTT National technical regulation on Radar equipment operating in the frequency range 76GHz to 77GHz for ground based vehicle (draft)	
Safety	Road vehicle headlamps	Draft national technical regulation on road vehicles headlamps QCVN 35:2021/BGTVT G/TBT/N/VNM/195	



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