

**High-Level 15th Regional Environmentally Sustainable
Transport Forum in Asia**
24-26 October 2023
Hilton KL, Kuala Lumpur, Malaysia

Adoption of vehicle safety regulations in Malaysia

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26 October 2023



Adoption of vehicle regulations in Malaysia

2006



2023

UN WP.29

(World Forum for Harmonization of Vehicle Regulations)

UN 1958 Agreement

(Agreement concerning Adoption of Uniform Technical Prescriptions)

Motor Vehicles (Construction and Use) Rules 1959

Vehicle Type Approval (VTA)

160 UN Regulations

PASSENGER CAR



TYPE APPROVAL OF PASSENGER CAR

Implementation of UN Regulations based on Vehicle Category

* Generally the mentioned UN Regulations are applicable.



Passive Safety		
Door Latches and Hinges	R11	1
Steering Mechanism	R12	2
Safety-belt Anchorages	R14	3
Safety-belts	R16	4
Seats	R17	5
Interior Fittings	R21	6
Head Restraints	R25	7
External Projections	R26	8
Prevention of Fire Risks	R34	9
Frontal Collision	R94	10
Lateral Collision	R95	11
Partitioning System	R126	12

Environment		
Diesel Smoke	R24	13
Diesel Emission	R49	14
Noise Emission	R51	15
Gaseous Pollutants	R83	16
Measure Engine Power	R85	17
CO ₂ Emission & Fuel Cons.	R101	18
Rolling Sound Emission	R117	19

General Safety

EMC Compatibility	R10	20
Speedometer	R39	21
Safety Glass	R43	22
Mechanical Coupling	R55	23
Vehicle Alarm System	R97	24
Battery Electric Vehicle	R100	25
LPG & CNG Retrofit S'tem	R115	26
Protect Unauthorized Use	R116	27
Forward Field Vision	R125	58
LED Light Sources	R128	59

Speed Limitation Device	R89	48
Replacement Brake Lining	R90	49
Side-marker Lamps	R91	50
Gas Discharge Headlamps	R98	51
Gas-Discharge Lights	R99	52
Retread Pneumatic Tyres	R108	53
Headlamps Asymmetrical	R112	54
Cornering Lamp	R119	55
Hand Controls, Tell-tales	R121	56
Adapt Front Light S'tem	R123	57



Active Safety		
Retro Reflecting Device	R3	28
Illumination Rear Plates	R4	29
Direction Indicators	R6	30
Stop & end-outline Lamps	R7	31
Vehicle Braking	R13H	32
Front Fog Lamps	R19	33
Reversing Lamps	R23	34
Audible Warning Devices	R28	35
Pneumatic Tyres	R30	36
Filament Lamps	R37	37
Rear Fog Lamps	R38	38
Headlamp Cleaners	R45	39
Rear-view Mirror	R46	40
Installation of Lights	R48	41
Temporary Tyres / TPMS	R64	42
Special Warning Lights	R65	43
Rear Marking Plates	R69	44
Parking Lamps	R77	45
Steering Equipment	R79	46
Daytime Running Lamps	R87	47

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UN Regulations

Electronic Stability Control (ESC) under Regulation UN R140 is a mandatory fitment for new passenger cars in Malaysia since July 2018.

MOTORCYCLE



TYPE APPROVAL OF MOTORCYCLE

Implementation of UN Regulations based on Vehicle Category

* Generally the mentioned UN Regulations are applicable



Total of 40 UN Regulations

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Kategori Active Safety

Retro Reflecting Device	R3	13
Direction Indicators	R6	14
Stop & End-outline Lamps	R7	15
Front Fog Lamps	R19	16
Audible Warning Devices	R28	17
Filament Lamps	R37	18
Rear Fog Lamps	R38	19
Headlamp Cleaners	R45	20
Rear-view Mirror	R46	21
Lights	R50	22
Installation of Lights	R53	23
Headlamps (Moped)	R56	24
Headlamps (M'cycle)	R57	25
Driver Operated Control	R60	26
Special Warning Lights	R65	27
Halogen Headlamps	R72	28
Installation of Lights	R74	29
Tyres	R75	30
Headlamps (Moped)	R76	31
Braking	R78	32
Rear-view Mirrors	R81	33
Halogen Headlamps (HS2)	R82	34
Day Time Running Lamps	R87	35
Replacement Brake Lining	R90	36
Gas-Discharge Headlamps	R98	37
Headlamps Asymmetrical	R112	38
Headlamps Symmetrical	R113	39
LED Light Sources	R128	40

Environment

Noise (3-Wheeled Vehicle)	R9	1
Diesel Smoke	R24	2
Exhaust Emission	R40	3
Noise	R41	4
Exhaust Emission	R47	5
Noise (Moped)	R63	6

General Safety

EMC Compatibility	R10	7
Speedometer	R39	8
Safety Glass	R43	9
Protect Unauthorized Use	R62	10

Passive Safety

Safety-belts	R16	11
Head Restraints	R25	12

40 UN Regulations

Mandatory of motorcycle ABS for new model -150cc and above (13kW above) starting 1st January 2025.

LIGHT DUTY TRUCK - LORRY



E52

Total of 60 UN Regulations

TYPE APPROVAL OF LIGHT DUTY TRUCK - LORRY Implementation of UN Regulations based on Vehicle Category

* Generally the mentioned UN Regulations are applicable



Environment

Diesel Smoke	R24	1
Diesel Emission	R49	2
Noise Emission	R51	3
Gaseous Pollutants	R83	4
Measure Engine Power	R85	5
CO ₂ Emission & Fuel Cons.	R101	6
Rolling Sound Emission	R117	7

Passive Safety

Door Latches and Hinges	R11	8
Steering Mechanism	R12	9
Safety-belt Anchorages	R14	10
Safety-belts	R16	11
Seats	R17	12
Head Restraints	R25	13
Prevention of Fire Risks	R34	14
External Projection	R61	15
Protect Lateral Collision	R95	16

General Safety

EMC Compatibility	R10	17
Speedometer	R39	18
Safety Glass	R43	19
Mechanical Coupling	R55	20
Vehicle Alarm System	R97	21
Battery Electric Vehicle	R100	22
Dangerous Goods Vehicle	R105	23
LPG & CNG Retrofit S'tem	R115	24
Protect Unauthorized Use	R116	25
Hand Controls, Tell-tales	R121	58
Adapt Front Light S'tem	R123	59
LED Light Sources	R128	60

Steering Equipment	R79	46
Daytime Running Lamps	R87	47
Speed Limitation Device	R89	48
Replacement Brake Lining	R90	49
Side-marker Lamps	R91	50
Gas Discharge Headlamps	R98	51
Gas-Discharge Lights	R99	52
Retro-reflective Markings	R104	53
Retread Pneumatic Tyres	R108	54
Retread Pneumatic Tyres	R109	55
Headlamps Asymmetrical	R112	56
Cornering Lamp	R119	57

Active Safety

Retro Reflecting Device	R3	26
Illumination Rear Plates	R4	27
Direction Indicators	R6	28
Stop & End-outline Lamps	R7	29
Heavy Vehicle Braking	R13	30
Vehicle Braking	R13H	31
Front Fog Lamps	R19	32
Reversing Lamps	R23	33
Audible Warning Devices	R28	34
Pneumatic Tyres	R30	35
Filament Lamps	R37	36
Rear Fog Lamps	R38	37
Headlamp Cleaners	R45	38
Rear-view Mirror	R46	39
Installation of Lights	R48	40
Pneumatic Tyres	R54	41
Spare Tyres / TPMS	R64	42
Special Warning Lights	R65	43
Rear Marking Plates	R69	44
Parking Lamps	R77	45

60 UN Regulations

BUS - COACH



TYPE APPROVAL OF BUS - COACH

Implementation of UN Regulations based on Vehicle Category

* Generally the mentioned UN Regulations are applicable



M₂
M₃
Kategori

Active Safety

Retro Reflecting Device	R3	24
Illumination Rear Plates	R4	25
Direction Indicators	R6	26
Stop & end-outline Lamps	R7	27
Heavy Vehicle Braking	R13	28
Front Fog Lamps	R19	29
Reversing Lamps	R23	30
Audible Warning Devices	R28	31
Filament Lamps	R37	32
Rear Fog Lamps	R38	33
Headlamp Cleaners	R45	34
Rear-view Mirror	R46	35
Installation of Lights	R48	36
Pneumatic Tyres	R54	37
Special Warning Lights	R65	38
Rear Marking Plates	R69	39
Rear Marking Plates	R70	40
Parking Lamps	R77	41
Steering Equipment	R79	42
Daytime Running Lamps	R87	43
Speed Limitation Device	R89	44
Replacement Brake Lining	R90	45
Side-marker Lamps	R91	46
Gas Discharge Headlamps	R98	47
Gas-Discharge Lights	R99	48
Retro-reflective Markings	R104	49
Retread Pneumatic Tyres	R109	50
Headlamps Asymmetrical	R112	51
Cornering Lamp	R119	52
Hand Controls, Tell-tales	R121	53

Environment

Diesel Smoke	R24	1
Diesel Emission	R49	2
Noise Emission	R51	3
Gaseous Pollutants	R83	4
Measure Engine Power	R85	5
Rolling Sound Emission	R117	6

General Safety

EMC Compatibility	R10	7
Protect Unauthorized Use	R18	8
Bus/Coach Construction	R36	9
Speedometer	R39	10
Safety Glass	R43	11
Bus/Coach Construction	R52	12
Mechanical Coupling	R55	13
Superstructure	R66	14
Battery Electric Vehicle	R100	15
Construction Bus/Coach	R107	16
LPG & CNG Retrofit S'tem	R115	17

Total of 55 UN Regulations

Passive Safety

Safety-belt Anchorages	R14	18
Safety-belts	R16	19
Seats	R17	20
Head Restraints	R25	21
Prevention of Fire Risks	R34	22
Seats	R80	23
Adapt Front Light S'tem	R123	54
LED Light Sources	R128	55

55 UN Regulations

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Thank you

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