

Attached table 2—acceleration and stationary noise control limits for 6<sup>th</sup> phase motor vehicles

Noise control limits of category L																								
Limits Inspection items		Categories		Accelerated noise								Stationary noise												
				PMR ≤ 25		25<PMR ≤ 50		PMR>50		≤ 50c.c		> 50c.c. ≤ 100c.c		> 100c.c. ≤ 175c.c.		> 175c.c. ≤ 550c.c.		> 550c.c.						
New type approval and new vehicle inspection				73		74		77		81		87		87		87		87		92				
In-use vehicle inspection				-		-		-		84		90		90		90		90		94				
Note		<div>1. Vehicle types of category L test procedure shall follow Noise Measurement Method of Motor Vehicle announced by Central Competent Authority.</div> <div>2. Domestic (depends on date of manufacture) and imported (depends on date of shipment) new type vehicle types of category L shall comply with the noise control limits for 6<sup>th</sup> phase motor vehicle after 2017/01/01.</div> <div>3. Domestic (depend on date of manufacture) and imported (depend on date of shipment) vehicle types of category L shall comply with the noise control limits for 6<sup>th</sup> phase motor vehicle after 2018/01/01.</div> <div>4. For motor vehicle types of category L3 tested according to paragraph 13 of Regulations Governing the Issuance and Replacement of Compliance Certification and Sample Testing for New Vehicle Model Noise Inspections (Inspection Regulation), the noise control limits shall be increased by 1 dB(A) from the values of this table. For the applications of new vehicle type approval using noise certifications issued by EU members, the exhaust system contained fibrous sound absorbing material shall perform conditioning test. Meanwhile, noise test results in acceleration and stationary shall comply with the noise control limits of this table.</div> <div>5. For vehicle types of category L3 with PMR &gt; 50 and acceleration noise test in 2<sup>nd</sup> gear only, the noise control limits of new type approval and new vehicle inspection shall be increased by 1 dB(A) from values in this table until 2018/12/31, and the noise control limits of new type approval and new vehicle inspection shall comply with the requirements of above table from 2019/01/01.</div> <div>6. For vehicle types of category L3 with PMR &gt; 25, the reported vehicle sound pressure level at wide-open-throttle after being reduced by 1 dB(A), shall not exceed noise control limits by more than 5 dB(A).</div> <div>7. For vehicle types of category L5, the noise control limit of new type approval and new vehicle inspection is 80 dB(A).</div> <div>8. For vehicle types of category L with PMR &gt; 100 and engine displacement &gt; 175c.c. tested according to paragraph 13 of Inspection Regulation, the noise control limits in stationary shall be increased by 2 dB(A) from values in this table.</div> <div>9. Vehicles of categories L tested according to paragraphs 13 and 14 of Inspection Regulation shall perform Additional Sound Emission Provisions (A.S.E.P.) procedure; meanwhile noise test results shall comply with the requirements of Noise Measurement Method of Motor Vehicle.</div> <div>10. Vehicle types of categories L3 and L5 correspond to the motor vehicle type requirements of “Vehicle Safety Inspection Standard” announced by MOTC.</div> <div>11. The 6<sup>th</sup> to 10<sup>th</sup> contents of this Note have come into force since 2018/01/01.</div>																						
Noise control limits of categories M and N																								
Limits Inspection items		Categories		Accelerated noise												Stationary noise								
				Passenger vehicle								Cargo vehicle				Sedans and station wagons		Passenger car, truck and announced special vehicle ≤ 3.5 tons		Buses, trucks and announced special vehicles > 3.5 tons				
				M <sub>1</sub>				M <sub>2</sub>				M <sub>3</sub>		N <sub>1</sub>								N <sub>2</sub>		N <sub>3</sub>
				PMR ≤ 120	120 < PMR ≤ 160	PMR > 160	Seats ≤ 4; R-point height < 450 mm	G.V.W. ≤ 2.5 tons	2.5 tons < G.V.W. ≤ 3.5 tons	G.V.W. > 3.5 tons; rated engine power ≤ 135 kW	G.V.W. > 3.5 tons; rated engine power > 135 kW	Rated engine power ≤ 150 kW	150 kW < Rated engine power ≤ 250 kW	Rated engine power > 250 kW	G.V.W. ≤ 2.5 tons	G.V.W. > 2.5 tons	Rated engine power ≤ 135 kW	Rated engine power > 135 kW	Rated engine power ≤ 150 kW	150 kW < Rated engine power ≤ 250 kW	Rated engine power > 250 kW	< 4000 c.c.	≥ 4000 c.c.	
New type approval and new vehicle inspection	1 <sup>st</sup> phase	72	73	75	75	72	74	75	75	76	78	80	72	74	77	78	79	81	82	93 (98)	96 (98)	93	93	99
	2 <sup>nd</sup> phase	70	71	73	74	70	72	73	74	74	77	78	71	73	75	76	77	79	81					
	3 <sup>rd</sup> phase	68	69	71	72	69	71	72	72	73	76	77	69	71	74	75	76	77	79					
In-use vehicle inspection				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93 (100)	96 (100)	93	93	99
Note		<div>1. Vehicle types of categories M and N vehicle test procedure shall follow UN/ECE Regulation NO. 51-03 and its amendments. Test site shall comply with requirements of ISO10844:2014 since 2021/01/20.</div> <div>2. For vehicle types other than category N2 that have obtained type approval certifications of 5<sup>th</sup> phase since 2018/7/1, applicants may apply to continue use, modify and extension of certifications until 2023/06/30, and until 2024/06/30 for vehicle types of category N2.</div> <div>3. Domestic (depend on date of manufacture) and imported (depend on date of shipment) vehicles of category M and N shall comply with the requirements of the noise control limits of 6<sup>th</sup> phase vehicle during each phase as following:<div>(a) Vehicle types of categories M1, M2, and N1:<div>1) The 1<sup>st</sup> phase came into force on 2018/07/01 and may apply to continued use, modification and extension of certifications until 2023/06/30.</div><div>2) The 2<sup>nd</sup> phase came into force on 2021/07/01 and may apply to continued use, modification and extension of certifications until 2027/06/30.</div><div>3) The 3<sup>rd</sup> phase came into force on 2025/07/01.</div></div><div>(b) Vehicle types of category M3:<div>1) The 1<sup>st</sup> phase came into force on 2018/07/01 and may apply to continued use, modification and extension of certifications until 2023/06/30.</div><div>2) The 2<sup>nd</sup> phase came into force on 2021/07/01 and may apply to continued use, modification and extension of certifications until 2028/06/30.</div><div>3) The 3<sup>rd</sup> phase came into force on 2027/07/01.</div></div><div>(c) Vehicle types of category N2:<div>1) The 1<sup>st</sup> phase came into force on 2018/07/01 and may apply to continued use, modification and extension of certification until 2024/06/30.</div><div>2) The 2<sup>nd</sup> phase came into force on 2023/07/01 and may apply to continued use, modification and extension of certification until 2028/06/30.</div><div>3) The 3<sup>rd</sup> phase came into force on 2027/07/01.</div></div><div>(d) Vehicle types of category N3:<div>1) The 1<sup>st</sup> phase came into force on 2018/07/01 and may apply to continued use, modification and extension of certification until 2023/06/30.</div><div>2) The 2<sup>nd</sup> phase came into force on 2021/07/01 and may apply to continued use, modification and extension of certification until 2028/06/30.</div><div>3) The 3<sup>rd</sup> phase came into force since 2027/07/01.</div></div></div> <div>4. For motor vehicle types of categories M and N tested according to paragraph 13 Inspection Regulation, the noise control limits of accelerated and stationary noise shall be increased by 1 dB(A) from the values of this table, and the provision of stationary noise is only for sedans and station wagons with rear-engine design. For the applications of new vehicle type approval using noise certifications issued by EU members, the exhaust system contained fibrous sound absorbing material shall perform conditioning test. Meanwhile, noise test results in acceleration and stationary shall comply with the noise control limits of this table.</div> <div>5. The control limits of the following vehicle types can be equivalent to values of vehicle types of category N1 with gross vehicle weight (G.V.W.) &gt; 2.5 metric tons:<div>(a) Vehicle types of category M1 divided from category N1 with G.V.W. &gt; 2.5 metric tons and R-point &gt; 850mm.</div><div>(b) Vehicle types of category N1 with G.V.W. ≤ 2500 kg, engine displacement ≤ 660 c.c., PMR ≤ 35, and the horizontal distance from front axle center to R-point &lt; 1100mm.</div></div> <div>6. For off-road vehicles (which are defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.3, Para. 2, fire trucks and disaster relief vehicles (include chassis developing stage) with G.V.W. &gt; 3.5 metric tons and proving documents, the accelerated noise shall meet the requirements as follows:<div>(a) For vehicle types of categories M3 and N3, the noise control limits in acceleration shall be increased by 2 dB(A) from the values of this table.</div><div>(b) For vehicle types of category M1 with G.V.W. &gt; 2.0 metric tons and the other categories, the noise control limits in acceleration shall be increased by 1 dB(A) from the value of this table.</div></div> <div>7. For vehicle types of category M1 complied with the requirements of wheelchair accessible vehicles of “Vehicle Safety Inspection Standards” announced by the MOTC, the noise control limits in acceleration shall be increased by 2 dB(A) from the value of this table.</div> <div>8. For vehicle types of category M3 equipped with a gasoline engine only, the noise control limits in acceleration shall be increased by 2 dB(A) from the value of this table.</div>																						

	<p>9. For sedans and station wagons with rear-engine design, the noise control limits shall not exceed 98 dB(A) for applications of new vehicle type approval and new vehicle inspection. (The motor vehicle would be considered as having a rear-engine design if the plane of front edge of engine body, which is perpendicular to the longitudinal direction of the vehicle, is located behind the middle point of the connected line made of each center of front and rear axle.)</p> <p>10. Motor vehicles of categories M and N tested according to paragraphs 13 and 14 of Inspection Regulation shall perform Additional Sound Emission Provisions (A.S.E.P.) procedure; meanwhile, noise test results in each test procedure shall comply with the requirements of UN/ECE Regulation NO. 51-03 and its amendments.</p> <p>11. Vehicle types of categories M1, M2, M3, N1, N2, and N3 correspond to the motor vehicle type requirements of “Vehicle Safety Inspection Standards” announced by the MOTC.</p> <p>12. The definition of R-point corresponds to paragraph 2.10 of item No. 78 of “Vehicle Safety Inspection Standards” announced by the MOTC.</p> <p>13. The 6<sup>th</sup> phase vehicle noise control standards came into force on 2018/07/01.</p>
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