

OVERVIEW of UNR-WLTP

WLTP-29-05e

Contents		main sources	00 series		01 series
			Level 1A	Level 1B	
			WLTP-29-05e_Appendix01		
1	Scope	GTR15/19 UNR83/101 Japanese Reg.	EU-WLTP	GTR15/19	cover both Level 1A and 1B area
2	Abbreviations		←	←	←
3	Definitions		←	←	←
4	Application for approval	EU-WLTP Japanese Reg.	←	exclude in use requirement	satisfy both Level 1A and 1B requirement
5	Approval		←		
6	Specifications and tests	GTR15/19 UNR83/101 EU-WLTP Japanese Reg.	EU-WLTP	Japanese Reg.	
7	Modification and extension of the type approval	EU-WLTP Japanese Reg.	EU-WLTP	Japanese Reg.	
8	Conformity of production (COP)		EU-WLTP with slight modification	Japanese Reg.	
9	Penalties for non-conformity of production	UNR83/101	←	←	
10	Production definitively discontinued		←	←	←
11	Special Provisions		←	←	←
12	Transitional Provisions		←	←	←
13	Names and addresses of Technical Services responsible for conducting approval tests,		←	←	←
Appendix					
1	Type 1 test CoP verification for specific vehicle types	EU-WLTP Japanese Reg.	EU-WLTP with slight modification	Japanese Reg.	satisfy both Level 1A and 1B requirement
2	Verification of conformity of production for Type 1 test - statistical method				
3	Run-in test procedure to determine run-in factors	Japanese Reg.	include pollutant	←	←
4	Conformity of production for Type 4 test	UNR83	←	←	←
5	Devices for monitoring on board the vehicle the consumption of fuel and/or electric energy	EU-WLTP	←	NA	EU-WLTP
6	Requirements for vehicles that use a reagent for the exhaust after-treatment system	EU-WLTP Japanese Reg.	←	←	←
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Annexes Part A					
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2	WLTP Road Load Test Report		←	←	←
3	WLTP Test Sheet		←	←	←
4	Evaporative Emissions Test Report		←	←	←
A2.	Communication		←	←	←
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A3.	Arrangements of the approval mark		←	←	←

Contents		main sources	00 series		01 series
			Level 1A	Level 1B	
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Annexes Part B					
B1.	Worldwide light-duty test cycles (WLTC)	GTR15_Amend#5	←	←	←
B2.	Gear selection and shift point determination for vehicles equipped with manual transmissions	WLTP-29-05e_Appendix02/03	←	←	←
B3.	Reference fuels		limited to EU specifications	limited to JPN specifications	harmonised
B4.	Road load and dynamometer setting	GTR15_Amend#5	←	←	←
B5.	Test equipment and calibrations		←	←	←
B6.	Type 1 test procedures and test conditions	GTR15_Amend#5 Japanese Reg.	GTR15_Amend#5	Japanese Reg.	satisfy both Level 1A and 1B requirement
WLTP-29-05e_Appendix04					
Appendix					
1	Emissions test procedure for all vehicles equipped with periodically regenerating systems	GTR15_Amend#5	←	←	←
2	Test procedure for rechargeable electric energy storage system monitoring		←	←	←
3	Calculation of gas energy ratio for gaseous fuels (LPG and NG/biomethane)	EU-WLTP Japanese Reg.	←	←	←
B6a.	Ambient Temperature Correction Test for the determination of CO2 emissions under representative regional temperature conditions	EU-WLTP WLTP-29-05e_Appendix04	←	NA	EU-WLTP
B6b.	Correction of CO2 results against the target speed and distance		←	NA	
B7.	Calculations	GTR15_Amend#5 Japanese Reg.	GTR15_Amend#5	Japanese Reg.	satisfy both Level 1A and 1B requirement
B8.	Pure electric, hybrid electric and compressed hydrogen fuel cell hybrid vehicles	WLTP-29-05e_Appendix06	WLTP-29-05e_Appendix04		
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1	REESS state of charge profile		←	←	←
2	REESS energy change-based correction procedure		←	←	←
3	Determination of REESS current and voltage for NOVC-HEVs, OVC-HEVs, [OVC-FCHVs,] PEVs and NOVC-FCHVs	GTR15_Amend#5	include OVC-FCHV	←	←
4	Preconditioning, soaking and REESS charging conditions of PEVs and OVC-HEVs [and OVC-FCHVs]		←	←	←
5	Utility factors (UF) for OVC-HEVs [and OVC-FCHVs]	GTR15_Amend#5 Japanese Reg.	GTR15_Amend#5 including OVC-FCHV	Japanese Reg. WLTP-29-04e_Appendix04	satisfy both Level 1A and 1B requirement
6	Selection of driver-selectable modes		←	←	←
7	Fuel consumption measurement of compressed hydrogen fuel cell hybrid vehicles	GTR15_Amend#5	←	←	←
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C4.	Type 5 test – Durability	UNR83 Japanese Reg.	←	← exclude bench ageing	← exclude bench ageing
Appendix					
1	Standard Bench Cycle (SBC)	UNR83	←	exclude	exclude
2	Standard Diesel Bench Cycle (SDBC)	exclude 11 lap kilometre	←	exclude	exclude
3	Standard Road Cycle (SRC)	accumulation cycle	←	←	←
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1	Functional aspects of On-Board Diagnostic (OBD) systems	WLTP-29-05e_Appendix07	←	←	←