

Structure of Annex 8, UNECE R-83

Initial statement	Procedure schematically shown in a flow chart.		
1. Introduction Only +ve ignition engines.			
2. Test equipment	2.1. Summary	2.1.1. Vehicles concerned. Only for positive ignition-engined vehicles.	
	2.2. Dyno	2.2.1. Adjustment of road load to -7 °C. [DC: Responsible authority may approve other road load methods. Too flexible statement.] .	
		2.2.2. Reference to Appendix 1 to Annex 4a.	
	2.3. Sampling system	2.3.1. Reference to Appendices 3 and 4 to Annex 4a.	
	2.4. Analytical equipment	2.4.1. Reference to Appendix 3 to Annex 4a but only for CO, CO ₂ and THC .	
	2.5. Gases	2.5.1. Reference to Appendices 3 to Annex 4a.	
	2.6. Additional equipment	2.6.1. Reference to paragraph 4.6. of Annex 4a.	
3. Test sequence and fuel ["Fuels" would be better placed as 2.7.]	3.1. General requirement	3.1.1. Ambient conditions.	
		3.1.2. Ambient conditions.	
	3.2. Test procedure	3.2.1. The first paragraph should be numbered 3.2.1. and should be labelled "Cycles". Reference to Figure A4a/1 in Annex 4a.	
		3.2.2. Currently 3.2.1. Engine start,	

		sampling and driving 1 st cycle. Reference to Table 1, Figure A4a/1 in Annex 4a.	
	3.3. Preparation for the test	3.3.1. Condition of the test vehicle. Reference to paragraph 3.2. of Annex 4a. Setting inertia mass. Reference to paragraph 6.2.1. of Annex 4a.	
	3.4. Test fuel	3.4.1. Reference to paragraph 2. of Annex 10.	
4. Vehicle preconditioning	4.1. Summary		
	4.2. Preconditioning [should preferably be titled Procedure]	4.2.1. Tank filling.	
		4.2.2. Vehicle to test cell and onto dyno.	
		4.2.3. Precon. cycles	
		4.2.4. Test cell temperature.	
		4.2.5. Tyre pressures.	
		4.2.6. End of precon.	
		4.2.7. Additional precon.	
	4.3. Soak methods	4.3.1. Two methods allowed.	
		4.3.2. Standard method.	
		4.3.3. Forced cooling method.	4.3.3.1. Max. storage temp.
			4.3.3.2. Cooling fans.
			4.3.3.3. Temp control around -7 °C (oil temp.).
			4.3.3.4. Temp. conditions at -7 °C.
		4.3.4. If vehicle goes through a separate warm area.	
5. Dynamometer procedure [Should be better labelled	5.1. Summary	5.1.1. Description of emissions test.	

"Exhaust emissions test"]			
	5.2. Dyno operation	5.2.1. Cooling fan.	5.2.1.1. to 5.2.1.4. Fan position, speed, area, location.
		5.2.2. Reserved.	
		5.2.3. Trial driving.	
		5.2.4. Humidity and the dyno rollers.	
		5.2.5. Dyno warm-up.	
		5.2.6. Time between dyno warm-up and test start.	
		5.2.7. Dyno setting.	
		5.2.8. Initial test cell temp.	
		5.2.9. Heating and defrosting devices turned off.	
		5.2.10. Driving distance.	
		5.2.11. 4WD vehicles.	
	5.3. Performing the [emissions] test	5.3.1. Starting, performing and sampling. 11 seconds of idling. Reference to paragraph 6.4. of Annex 4a.	
		5.3.2. Analysis of emissions. Reference to paragraph 6.5. of Annex 4a.	
		5.3.3. Calculations. Reference to paragraph 6.6. of Annex 4a.	
6. Other requirements	6.1. Irrational strategy	6.1.1. Defeat device.	
COMMENTS:			
1. Only ICE vehicles concerned.			
2. Only CO and THC measured.			
END			