

**Changes to legislation:** There are outstanding changes not yet made to Commission Regulation (EU) 2017/2400. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

## ANNEX III

## INPUT INFORMATION RELATING TO THE CHARACTERISTIC OF THE VEHICLE

## 3. Set of input parameters

I<sup>F1</sup> TABLE 1

## Input parameters 'Vehicle/General'

Parameter name	Parameter ID	Type	Unit	Description/Reference
Manufacturer	P235	token	[-]	
ManufacturerAddress	P2352	token	[-]	
Model	P236	token	[-]	
VIN	P238	token	[-]	
Date	P239	dateTime	[-]	Date and time when the component-hash is created
LegislativeClass	P251	string	[-]	Allowed values: 'N2', 'N3'
VehicleCategory	P036	string	[-]	Allowed values: 'Rigid Lorry', 'Tractor'
AxleConfiguration	P037	string	[-]	Allowed values: '4×2', '6×2', '6×4', '8×4'
CurbMassChassis	P038	int	[kg]	
GrossVehicleMass	P041	int	[kg]	
IdlingSpeed	P198	int	[1/min]	
RetarderType	P052	string	[-]	Allowed values: 'None', 'Losses included in Gearbox', 'Engine Retarder', 'Transmission Input Retarder', 'Transmission Output Retarder'
RetarderRatio	P053	double, 3	[-]	
AngledriveType	P180	string	[-]	Allowed values: 'None', 'Losses

**a** In case of multiple PTOs mounted to the transmission, only the component with the highest losses according to point 3.6 of Annex IX, for its combination of criteria 'PTOShaftsGearWheels' and 'PTOShaftsOtherElements', shall be declared.]

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				included in Gearbox', 'Separate Angledrive'
PTOShaftsGearWheels	P247	string	[-]	Allowed values: 'none', 'only the drive shaft of the PTO', 'drive shaft and/or up to 2 gear wheels', 'drive shaft and/or more than 2 gear wheels', 'only one engaged gearwheel above oil level'
PTOOtherElements	P248	string	[-]	Allowed values: 'none', 'shift claw, synchronizer, sliding gearwheel', 'multi-disc clutch', 'multi-disc clutch, oil pump'
CertificationNumber	P261	token	[-]	
CertificationNumber	P262	token	[-]	
CertificationNumber	P263	token	[-]	
CertificationNumber	P264	token	[-]	
CertificationNumber	P265	token	[-]	
CertificationNumber	P266	token	[-]	
CertificationNumber	P267	token	[-]	
CertificationNumber	P268	token	[-]	
ZeroEmissionVehicle	P269	boolean	[-]	
VocationalVehicle	P270	boolean	[-]	
NgTankSystem	P275	string	[-]	Allowed values: 'Compressed', 'Liquefied' Only relevant for vehicles with engines of fuel

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				type 'NG PI' (P193)
Sleeper cab	P276	boolean	[-]	

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#### Textual Amendments

**F1** Substituted by Commission Regulation (EU) 2019/318 of 19 February 2019 amending Regulation (EU) 2017/2400 and Directive 2007/46/EC of the European Parliament and of the Council as regards the determination of the CO2 emissions and fuel consumption of heavy-duty vehicles (Text with EEA relevance).

TABLE 2

#### Input parameters 'Vehicle/AxleConfiguration' per wheel axle

Parameter name	Parameter ID	Type	Unit	Description/Reference
TwinTyres	P045	boolean	[-]	
AxleType	P154	string	[-]	Allowed values: 'VehicleNonDriven', 'VehicleDriven'
Steered	P195	boolean		

TABLE 3

#### Input parameters 'Vehicle/Auxiliaries'

Parameter name	Parameter ID	Type	Unit	Description/Reference
Fan/Technology	P181	string	[-]	Allowed values: 'Crankshaft mounted - Electronically controlled visco clutch', 'Crankshaft mounted - Bimetallic controlled visco clutch', 'Crankshaft mounted - Discrete step clutch', 'Crankshaft mounted - On/off clutch', 'Belt driven or driven via transm. -

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				Electronically controlled visco clutch', 'Belt driven or driven via transm. - Bimetallic controlled visco clutch', 'Belt driven or driven via transm. - Discrete step clutch', 'Belt driven or driven via transm. - On/off clutch', 'Hydraulic driven - Variable displacement pump', 'Hydraulic driven - Constant displacement pump', 'Electrically driven - Electronically controlled'
SteeringPump/ Technology	P182	string	[-]	Allowed values: 'Fixed displacement', 'Fixed displacement with elec. control', 'Dual displacement', 'Variable displacement mech. controlled', 'Variable displacement elec. controlled', 'Electric' <b>Separate entry for each steered wheel axle required</b>
ElectricSystem/ Technology	P183	string	[-]	Allowed values: 'Standard technology', 'Standard

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				technology - LED headlights, all'
PneumaticSystem/Technology	P184	string	[-]	Allowed values: 'Small', 'Small + ESS', 'Small + visco clutch', 'Small + mech. clutch', 'Small + ESS + AMS', 'Small + visco clutch + AMS', 'Small + mech. clutch + AMS', 'Medium Supply 1-stage', 'Medium Supply 1-stage + ESS', 'Medium Supply 1-stage + visco clutch', 'Medium Supply 1-stage + mech. clutch', 'Medium Supply 1-stage + ESS + AMS', 'Medium Supply 1-stage + visco clutch + AMS', 'Medium Supply 1-stage + mech. clutch + AMS', 'Medium Supply 2-stage', 'Medium Supply 2-stage + ESS', 'Medium Supply 2-stage + visco clutch', 'Medium Supply 2-stage + mech. clutch', 'Medium Supply 2-stage + ESS + AMS', 'Medium Supply 2-stage + visco clutch + AMS', 'Medium Supply 2-stage + mech. clutch + AMS', 'Large Supply', 'Large

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				Supply + ESS', 'Large Supply + visco clutch', 'Large Supply + mech. clutch', 'Large Supply + ESS + AMS', 'Large Supply + visco clutch + AMS', 'Large Supply + mech. clutch + AMS'; 'Vacuum pump'
[ <sup>F1</sup> HVAC/Technology	P185	string	[-]	Allowed values: 'None', 'Default']

TABLE 4

**Input parameters 'Vehicle/EngineTorqueLimits' per gear (optional)**

Parameter name	Parameter ID	Type	Unit	Description/Reference
Gear	P196	integer	[-]	only gear numbers need to be specified where vehicle related engine torque limits according to point 6 are applicable
MaxTorque	P197	integer	[Nm]	

[<sup>F2</sup>TABLE 5**Input parameters for ZE-HDVs, He-HDVs and dual-fuel vehicles**

Parameter name	Parameter ID	Type	Unit	Description/Reference
Manufacturer	P235	token	[-]	
ManufacturerAddress	P252	token	[-]	
Model	P236	token	[-]	
VIN	P238	token	[-]	
Date	P239	dateTime	[-]	Date and time when the component-hash is created

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LegislativeClass	P251	string	[-]	Allowed values: 'N2', 'N3'
VehicleCategory	P036	string	[-]	Allowed values: 'Rigid Lorry', 'Tractor'
CurbMassChassis	P038	int	[kg]	
GrossVehicleMass	P041	int	[kg]	
MaxNetPower1	P277	int	[W]	If He-HDV = Y: highest maximum net power of all energy converters, which are linked to the vehicle driveline or the wheels
MaxNetPower2	P278	int	[W]	If He-HDV = Y: second highest maximum net power of all energy converters, which are linked to the vehicle driveline or the wheels
ZE-HDV	P269	boolean	[-]	
He-HDV	P279	boolean	[-]	
DualFuelVehicle	P280	boolean	[-]	]

#### Textual Amendments

**F2** Inserted by Commission Regulation (EU) 2019/318 of 19 February 2019 amending Regulation (EU) 2017/2400 and Directive 2007/46/EC of the European Parliament and of the Council as regards the determination of the CO2 emissions and fuel consumption of heavy-duty vehicles (Text with EEA relevance).

*F2* TABLE 6

#### Input parameters 'Advanced driver assistance systems'

Parameter name	Parameter ID	Type	Unit	Description/ Reference
EngineStopStart	P271	boolean	[-]	In accordance with point 8.1.1

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EcoRollWithoutEngineStop	boolean	[-]	In accordance with point 8.1.2
EcoRollWithEngineStop	boolean	[-]	In accordance with point 8.1.3
PredictiveCruiseControl	string	[-]	In accordance with point 8.1.4, allowed values: '1,2', '1,2,3']



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**Changes and effects yet to be applied to the whole legislation item and associated provisions**

- Signature words omitted by [S.I. 2022/1273 reg. 82\(18\)](#)
- Annex 5 Appendix 6 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(i\)](#)
- Annex 5 Appendix 6 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iii\)\(aa\)](#)
- Annex 5 Appendix 6 point 1.5.1 image substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iv\)\(aa\)](#)
- Annex 5 Appendix 4 point 7.4 word substituted by [S.I. 2022/1273 reg. 83\(4\)\(a\)](#)
- Annex 5 Appendix 6 point 2.1 word substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(v\)](#)
- Annex 5 Appendix 6 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iii\)\(bb\)](#)
- Annex 5 Appendix 6 point 1.5.1 words omitted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iv\)\(bb\)](#)
- Annex 5 Appendix 6 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(ii\)](#)
- Annex 5 Appendix 6 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(vi\)](#)
- Annex 10 Appendix 4 point 1.1 word substituted by [S.I. 2022/1273 reg. 83\(8\)\(d\)\(i\)](#)
- Annex 10 Appendix 1 words substituted by [S.I. 2022/1273 reg. 83\(8\)\(c\)](#)
- Annex 10 Appendix 4 point 1.1 table words substituted by [S.I. 2022/1273 reg. 83\(8\)\(d\)\(ii\)](#)
- Annex 7 Appendix 5 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(i\)](#)
- Annex 7 Appendix 5 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iii\)\(aa\)](#)
- Annex 7 Appendix 1s. 1 point 000.5 word substituted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(ii\)](#)
- Annex 7 Appendix 1 words inserted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(i\)\(aa\)](#)
- Annex 7 Appendix 1 words omitted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(i\)\(bb\)](#)
- Annex 7 Appendix 5 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iii\)\(bb\)](#)
- Annex 7 Appendix 5 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(ii\)](#)
- Annex 7 Appendix 5 point 2.1 words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iv\)](#)
- Annex 7 Appendix 5 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(v\)](#)
- Annex 8 Appendix 8 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(i\)](#)
- Annex 8 Appendix 8 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iii\)\(aa\)](#)
- Annex 8 Appendix 4 table 11 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(i\)](#)
- Annex 8 Appendix 4 table 13 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(i\)](#)
- Annex 8 Appendix 4 table 15 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(ii\)\(aa\)](#)
- Annex 8 Appendix 4 table 15 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(ii\)\(bb\)](#)
- Annex 8 Appendix 1s. 1 point 000.6 word substituted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(ii\)](#)
- Annex 8 Appendix 8 point 2.1 word substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iv\)](#)
- Annex 8 Appendix 1 words inserted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(i\)\(aa\)](#)
- Annex 8 Appendix 1 words omitted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(i\)\(bb\)](#)
- Annex 8 Appendix 8 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iii\)\(bb\)](#)
- Annex 8 Appendix 8 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(ii\)](#)
- Annex 8 Appendix 8 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(v\)](#)

- Annex 2 Appendix 2s. 2 point 2 omitted by S.I. 2022/1273 reg. 83(2)(b)(ii)
- Annex 2 Appendix 2 words inserted by S.I. 2022/1273 reg. 83(2)(b)(i)
- Annex 6 Appendix 7 point 1.3 substituted by S.I. 2022/1273 reg. 83(5)(e)(i)
- Annex 6 Appendix 7 point 1.5 image substituted by S.I. 2022/1273 reg. 83(5)(e)(iii)(aa)
- Annex 6 Appendix 7 point 2.1 word substituted by S.I. 2022/1273 reg. 83(5)(e)(iv)
- Annex 6 Appendix 1 words omitted by S.I. 2022/1273 reg. 83(5)(c)
- Annex 6 Appendix 7 point 1.5 words omitted by S.I. 2022/1273 reg. 83(5)(e)(iii)(bb)
- Annex 6 Appendix 2 point 8 words substituted by S.I. 2022/1273 reg. 83(5)(d)
- Annex 6 Appendix 3 point 8 words substituted by S.I. 2022/1273 reg. 83(5)(d)
- Annex 6 Appendix 4 point 8 words substituted by S.I. 2022/1273 reg. 83(5)(d)
- Annex 6 Appendix 5 point 8 words substituted by S.I. 2022/1273 reg. 83(5)(d)
- Annex 6 Appendix 7 point 1.4 words substituted by S.I. 2022/1273 reg. 83(5)(e)(ii)
- Annex 6 Appendix 7 point 2.1 table words substituted by S.I. 2022/1273 reg. 83(5)(e)(v)
- Art. 3(5) omitted by S.I. 2022/1273 reg. 82(4)(a)
- Art. 3(16) words substituted by S.I. 2022/1273 reg. 82(4)(b)
- Art. 3(20) words substituted by S.I. 2022/1273 reg. 82(4)(c)
- Art. 10(1a) inserted by S.I. 2022/1273 reg. 82(8)(b)
- Annex 10a para. 3(f) words inserted by S.I. 2022/1273 reg. 83(9)(a)
- Annex 10a para. 3(f) table words substituted by S.I. 2022/1273 reg. 83(9)(b)(c)
- Art. 12(8) inserted by S.I. 2022/1273 reg. 82(10)