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Subject:	ANNEX to the Commission Regulation supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Regulation (EC) No 692/2008

Delegations will find attached document D045884/02 ANNEX 17.

Encl.: D045884/02 ANNEX 17



Brussels, **XXX**
D045884/02
[...] (2016) **XXX** draft

ANNEX 17

ANNEX

to the

Commission Regulation

supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Regulation (EC) No 692/2008

ANNEX XVII

AMENDMENTS TO REGULATION (EC) No 692/2008

1. Appendix 3 to Annex I of Regulation (EC) No 692/2008 is hereby amended as follows:

a) Points 3. to 3.1.1. shall be amended to read:

- "3. PROPULSION ENERGY CONVERTER (k)
- 3.1. Manufacturer of the propulsion energy converter(s):
- 3.1.1. Manufacturer's code (as marked on the propulsion energy converter or other means of identification): "

b) Point 3.2.1.8. shall be amended to read:

- "3.2.1.8. Rated engine power (n): kW at min⁻¹ (manufacturer's declared value)"

c) Point 3.2.2.2. shall be renumbered 3.2.2.1.1. and shall read as follows:

- "3.2.2.1.1. RON, unleaded:"

d) Point 3.2.4.2.1. shall be amended to read:

- "3.2.4.2.1. System description (common rail/unit injectors/distribution pump etc.):"

e) Point 3.2.4.2.3. shall be amended to read:

- "3.2.4.2.3. Injection/Delivery pump"

f) Point 3.2.4.2.4. shall be amended to read:

- "3.2.4.2.4. Engine speed limitation control"

g) Point 3.2.4.2.9.3. shall be amended to read:

- "3.2.4.2.9.3. Description of the system"

h) Points 3.2.4.2.9.3.6. to 3.2.4.2.9.3.8. shall be amended to read:

- "3.2.4.2.9.3.6. Make and type or working principle of water temperature sensor:"
- 3.2.4.2.9.3.7. Make and type or working principle of air temperature sensor:"
- 3.2.4.2.9.3.8. Make and type or working principle of air pressure sensor:"

i) Point 3.2.4.3.4.3. shall be amended to read:

"3.2.4.3.4.3. Make and type or working principle of air-flow sensor:"

j) Points 3.2.4.3.4.9. to 3.2.4.3.4.11. shall be amended to read:

"3.2.4.3.4.9. Make and type or working principle of water temperature sensor:"

3.2.4.3.4.10. Make and type or working principle of air temperature sensor:"

3.2.4.3.4.11. Make and type or working principle of air pressure sensor:"

k) Point 3.2.4.3.5. shall be amended to read:

"3.2.4.3.5. Injectors"

l) Points 3.2.12.2. to 3.2.12.2.1. shall be amended to read:

"3.2.12.2. Pollution control devices (if not covered by another heading)

3.2.12.2.1. Catalytic converter"

m) Points 3.2.12.2.1.11. to 3.2.12.2.1.11.10 shall be deleted

n) Points 3.2.12.2.2. to 3.2.12.2.2.5. shall be deleted and replaced with the following:

"3.2.12.2.2. Sensors

3.2.12.2.2.1. Oxygen sensor: yes/no (¹)

3.2.12.2.2.1.1. Make:

3.2.12.2.2.1.2. Location:

3.2.12.2.2.1.3. Control range:

3.2.12.2.2.1.4. Type or working principle:

3.2.12.2.2.1.5. Identifying part number:"

o) Points 3.2.12.2.4.1. to 3.2.12.2.4.2. shall be amended to read:

"3.2.12.2.4.1. Characteristics (make, type, flow, high pressure / low pressure / combined pressure, etc.): ...

3.2.12.2.4.2. Water-cooled system (to be specified for each EGR system e.g. low pressure / high pressure / combined pressure: yes/no (¹)"

p) Points 3.2.12.2.5. to 3.2.12.2.5.6. shall be amended to read:

"3.2.12.2.5. Evaporative emissions control system (petrol and ethanol engines only): yes/no (¹)

- 3.2.12.2.5.1. Detailed description of the devices:
- 3.2.12.2.5.2. Drawing of the evaporative emissions control system:
- 3.2.12.2.5.3. Drawing of the carbon canister:
- 3.2.12.2.5.4. Mass of dry charcoal: g
- 3.2.12.2.5.5. Schematic drawing of the fuel tank with indication of capacity and material (petrol and ethanol engines only):
- 3.2.12.2.5.6. Description and schematic of the heat shield between tank and exhaust system:"

q) Points 3.2.12.2.6.4. to 3.2.12.2.6.4.4. shall be deleted

r) Points 3.2.12.2.6.5. and 3.2.12.2.6.6. shall be renumbered to read:

- "3.2.12.2.6.4. Make of particulate trap:
- 3.2.12.2.6.5. Identifying part number: "

s) Points 3.2.12.2.8. shall be amended to read:

- "3.2.12.2.8. Other system: "

t) New points 3.2.12.2.10. to 3.2.12.2.11.8. shall be added as follows:

- "3.2.12.2.10. Periodically regenerating system: (provide the information below for each separate unit)
- 3.2.12.2.10.1. Method or system of regeneration, description and/or drawing:
- 3.2.12.2.10.2. The number of Type 1 operating cycles, or equivalent engine test bench cycles, between two cycles where regenerative phases occur under the conditions equivalent to Type 1 test (Distance 'D' in Figure A6.App1/1 in Appendix 1 to Sub-Annex 6 of Annex XXI to Regulation (EU) No xxx/2016 or figure A13/1 in Annex 13 to UN/ECE Regulation 83 (as applicable)): . .
- 3.2.12.2.10.2.1. Applicable Type 1 cycle: (indicate the applicable procedure: Annex XXI, Sub-Annex 4 or UN/ECE Regulation 83): ...
- 3.2.12.2.10.3. Description of method employed to determine the number of cycles between two cycles where regenerative phases occur:
- 3.2.12.2.10.4. Parameters to determine the level of loading required before regeneration occurs (i.e. temperature, pressure etc.):
- 3.2.12.2.10.5. Description of method used to load system in the test procedure described in paragraph 3.1., Annex 13 to UN/ECE Regulation 83:
- 3.2.12.2.11. Catalytic converter systems using consumable reagents (provide the information below for each separate unit) yes/no ⁽¹⁾
- 3.2.12.2.11.1. Type and concentration of reagent needed: ...
- 3.2.12.2.11.2. Normal operational temperature range of reagent: ...

- 3.2.12.2.11.3. International standard: ...
- 3.2.12.2.11.4. Frequency of reagent refill: continuous/maintenance (where appropriate):
- 3.2.12.2.11.5. Reagent indicator: (description and location)
- 3.2.12.2.11.6. Reagent tank
 - 3.2.12.2.11.6.1. Capacity: ...
 - 3.2.12.2.11.6.2. Heating system: yes/no ⁽¹⁾
 - 3.2.12.2.11.6.2.1. Description or drawing
- 3.2.12.2.11.7. Reagent control unit: yes/no ⁽¹⁾
 - 3.2.12.2.11.7.1. Make: ...
 - 3.2.12.2.11.7.2. Type: ...
- 3.2.12.2.11.8. Reagent injector (make, type and location): ..."

u) Point 3.2.15.1. shall be amended to read:

"3.2.15.1. Type-approval number according to Regulation (EC) No 661/2009 (OJ L 200, 31.7.2009, p. 1)"

v) Point 3.2.16.1. shall be amended to read:

"3.2.16.1. Type-approval number according to Regulation (EC) No 661/2009 (OJ L 200, 31.7.2009, p. 1)"

w) Point 3.3. shall be amended to read:

"3.3. Electric machine"

x) Point 3.3.2. shall be amended to read:

"3.3.2. REESS"

y) Point 3.4. shall be amended to read:

"3.4. Combinations of propulsion energy converters"

z) Point 3.4.4. shall be amended to read:

"3.4.4. Description of the energy storage device: (REESS, capacitor, flywheel/generator)"

aa) Point 3.4.4.5. shall be amended to read:

"3.4.4.5. Energy: (for REESS : voltage and capacity Ah in 2 h, for capacitor: J,)"

bb) Point 3.4.5. shall be amended to read:

"3.4.5. Electric machine (describe each type of electric machine separately)"

cc) Point 3.5. shall be amended to read:

“3.5. Manufacturer’s declared values for determination of CO₂ emissions/fuel consumption/electric consumption/electric range and details of eco-innovations (where applicable)(^o)”

dd) Point 4.4. shall be amended to read:

“4.4. Clutch(es)”

ee) Point 4.6. shall be amended to read:

“4.6. Gear ratios

Gear	Internal gearbox ratios (ratios of engine to gearbox output shaft revolutions)	Final drive ratio(s) (ratio of gearbox output shaft to driven wheel revolutions)	Total gear ratios
Maximum for CVT			
1			
2			
3			
...			
Minimum for CVT			

”

ff) Point 6.6. to 6.6.3. shall be replaced as follows:

“6.6. Tyres and wheels

6.6.1. Tyre/wheel combination(s)

6.6.1.1. Axles

6.6.1.1.1. Axle 1:

6.6.1.1.1.1. Tyre size designation

6.6.1.1.2. Axle 2:

6.6.1.1.2.1. Tyre size designation

etc.

6.6.2. Upper and lower limits of rolling radii

6.6.2.1. Axle 1:

6.6.2.2. Axle 2:

etc.

6.6.3. Tyre pressure(s) as recommended by the vehicle manufacturer: kPa”

gg) Point 9.1. shall be amended to read:

"9.1. Type of bodywork using the codes defined in Part C of Annex II of Directive 2007/46/EC:"

2. In table 1 of Appendix 6 to Annex I of Regulation (EC) No 692/2008 the rows ZD to ZL and ZX, ZY are amended as follows:

"

ZD	Euro 6c	Euro 6-2	M, N1 class I	PI, CI			31.8.2018
ZE	Euro 6c	Euro 6-2	N1 class II	PI, CI			31.8.2019
ZF	Euro 6c	Euro 6-2	N1 class III, N2	PI, CI			31.8.2019
ZG	Euro 6d-TEMP	Euro 6-2	M, N1 class I	PI, CI			31.8.2018
ZH	Euro 6d-TEMP	Euro 6-2	N1 class II	PI, CI			31.8.2019
ZI	Euro 6d-TEMP	Euro 6-2	N1 class III, N2	PI, CI			31.8.2019
ZJ	Euro 6d	Euro 6-2	M, N1 class I	PI, CI			31.8.2018
ZK	Euro 6d	Euro 6-2	N1 class II	PI, CI			31.8.2019
ZL	Euro 6d	Euro 6-2	N1 class III, N2	PI, CI			31.8.2019
ZX	n.a.	n.a.	All vehicles	Battery full electric	1.9.2009	1.1.2011	31.8.2019
ZY	n.a.	n.a.	All vehicles	Battery full electric	1.9.2009	1.1.2011	31.8.2019
ZZ	n.a.	n.a.	All vehicles using certificates according to point 2.1.1 of Annex I	PI, CI	1.9.2009	1.1.2011	31.8.2019

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