

6 March 2006

AGREEMENT

**CONCERNING THE ADOPTION OF UNIFORM TECHNICAL PRESCRIPTIONS
FOR WHEELED VEHICLES, EQUIPMENT AND PARTS WHICH CAN BE FITTED
AND/OR BE USED ON WHEELED VEHICLES AND THE CONDITIONS FOR
RECIPROCAL RECOGNITION OF APPROVALS GRANTED ON THE BASIS OF
THESE PRESCRIPTIONS */**

(Revision 2, including the amendments which entered into force on 16 October 1995)

Addendum 114: Regulation No. 115

Amendment 1 - Corrigendum 1

Corrigendum 1 to Supplement 1 to the original version of the Regulation, subject of Depository
Notification C.N.1276.2005.TREATIES-3 dated 21 December 2005

UNIFORM PROVISIONS CONCERNING THE APPROVAL OF:

**I SPECIFIC LPG (LIQUEFIED PETROLEUM GASES) RETROFIT SYSTEMS TO BE
INSTALLED IN MOTOR VEHICLES FOR THE USE OF LPG IN THEIR PROPULSION
SYSTEM**

**II. SPECIFIC CNG (COMPRESSED NATURAL GAS) RETROFIT SYSTEMS TO BE
INSTALLED IN MOTOR VEHICLES FOR THE USE OF CNG IN THEIR PROPULSION
SYSTEM**



UNITED NATIONS

*/ Former title of the Agreement:

Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958.

Paragraph 1.4., correct to read:

- "1.4. This Regulation applies to retrofit systems intended to be fitted on vehicles of categories M and N, with the exception of:
- (a) vehicles approved before the application of the requirements of Regulation No. 83, 01 series of amendments,
 - (b) vehicles type-approved pursuant to Regulation No. 83, approval A and C,
 - (c) vehicles type-approved pursuant to Regulation No. 83, others than M₁ and N₁ categories,
 - (d) vehicles type-approved pursuant to Regulation No. 83, series of amendments 01 or 02 or 03 or 04 series,
 - (e) vehicles type-approved pursuant to Regulation No. 49, series of amendments 01 or 02 or 03 series."

Insert a new paragraph 1.5., to read (footnote 1/ to the former paragraph 1.4. remains unchanged):

- "1.5. The requirements for the different categories (M₁, N₁ or others) are defined in paragraphs 2. to 7. 1/.

Once the retrofit system is installed in the vehicle, the modified vehicle shall fulfil all the provisions of the Regulation for which the type approval has been initially granted."

Paragraph 3.3., correct to read:

- "3.3. Installation manual(s) for the retrofit system installation on the parent vehicle(s)."

Paragraph 6.1.2.4., correct to read:

- "6.1.2.4. "Pollutants" means:

- (i) carbon monoxide
- (ii)
-"

Paragraphs 6.1.2.5.3.3. and 6.1.2.5.3.4., correct to read:

- "6.1.2.5.3.3. The ratios of CO₂ emissions and fuel consumption shall be calculated as follows:

$$K_{CO_2} = CO_{2LPG} / CO_{2petrol}$$

$$K_{Cons} = Cons_{LPG} / Cons_{petrol}$$

For each vehicle of the family, the official values of CO₂ emissions are multiplied by the above ratios.

6.1.2.5.3.4. Notwithstanding the provisions of paragraphs 6.1.2.5.3.1. and 6.1.2.5.3.2., for non intrusive system, as defined in paragraph 2.1.5. of this Regulation, the value of the petrol CO₂ emission and the fuel consumption may be the official values of the vehicle No. i. "

Paragraph 6.1.3.4., correct to read:

"6.1.3.4. Notwithstanding the provisions of paragraph 6.1.3.1., with regard to the way to calculate the mean of maximum power on petrol in paragraphs 6.1.3.2. and 6.1.3.3., for non intrusive system, as defined in paragraph 2.1.5. of this Regulation, the value of maximum power on petrol of the vehicle No. i may be the official value."

Paragraph 6.1.4.1.2., correct to read:

"6.1.4.1.2. "LPG emission-related component" means any component in the air inlet or in the exhaust system which supplies an input to or receives an output from the LPG controller."

Paragraph 6.2.2.4., correct to read:

"6.2.2.4. "Pollutants" means:
(i) carbon monoxide
(ii)
....."

Paragraphs 6.2.2.5.3.3. and 6.2.2.5.3.4., correct to read:

"6.2.2.5.3.3. The ratios of CO₂ emissions and fuel consumption shall be calculated as follows:

$$K_{CO_2} = CO_{2CNG} / CO_{2petrol}$$

$$K_{Cons} = Cons_{CNG} / Cons_{petrol}$$

For each vehicle of the family, the official values of CO₂ emissions and fuel consumption are multiplied by the above ratios.

6.2.2.5.3.4. Notwithstanding the provisions of paragraphs 6.2.2.5.3.1. and 6.2.2.5.3.2., for non intrusive system, as defined in paragraph 2.1.5. of this Regulation, the value of the petrol CO₂ emission and the fuel consumption may be the official values of the vehicle No. i. "

Paragraph 6.2.4.1.2., correct to read:

"6.2.4.1.2. "CNG emission-related component" means any component in the air inlet or in the exhaust system which supplies an input to or receives an output from the CNG controller."

Paragraphs 7.1.3.5. to 7.1.3.7., correct to read:

"7.1.3.5. The installation manual can be divided in two parts:

- Part I: (i) Part containing the description of the sample of the retrofit system.
(ii) Part containing the list of components indicated by the retrofit manufacturer as alternatives.

Part II: (i) Part containing installation instructions for the specific vehicle.

7.1.3.6. Installation manual of the parent vehicle(s) has to be submitted to the authority that grants the type approval.

7.1.3.7. Installation manual of the vehicles belonging to the family has to be filed by the retrofit system manufacturer for a time to be determined in accordance with the authority that grants the type approval."

Annex 1A – Addendum, item 3., correct to read:

"3. Vehicles type(s) for which the retrofit equipment type is qualified:

Fuel		Petrol (or diesel) <u>1/</u>					LPG				
Vehicle type	Engine type	Power (kW)	CO <u>3/</u> (g/km)	HC <u>3/</u> (g/km)	NO _x <u>3/</u> (g/km)	CO ₂ <u>2/</u> (g/km)	Power (kW)	CO <u>3/</u> (g/km)	HC <u>3/</u> (g/km)	NO _x <u>3/</u> (g/km)	CO ₂ <u>2/</u> (g/km)

1/ Strike out what does not apply.

2/ Applicable to vehicles of category M₁ and N₁ only.

3/ Applicable only to parent vehicle(s)"

Annex 1B - Addendum, item 3., correct to read:

"3. Vehicles type(s) for which the retrofit equipment type is qualified:

Fuel		Petrol (or diesel) <u>1/</u>					CNG				
Vehicle type	Engine type	Power (kW)	CO <u>3/</u> (g/km)	HC <u>3/</u> (g/km)	NO _x <u>3/</u> (g/km)	CO ₂ <u>2/</u> (g/km)	Power (kW)	CO <u>3/</u> (g/km)	HC <u>3/</u> (g/km)	NO _x <u>3/</u> (g/km)	CO ₂ <u>2/</u> (g/km)

- 1/ Strike out what does not apply.
- 2/ Applicable to vehicles of category M₁ and N₁ only.
- 3/ Applicable only to parent vehicle(s)"
