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World Forum for Harmonization of Vehicle Regulations (WP.29)  
Working Party on Pollution and Energy (GRPE)  
(Forty-third session, 15-18 January 2002,  
agenda item 4.5.)

PROPOSAL FOR DRAFT AMENDMENTS (CORRIGENDUM 3) TO REGULATION No. 110  
(Specific components for CNG)

Transmitted by the Expert from the  
European Natural Gas Vehicle Association (ENGVA)

Note: The document reproduced below was transmitted by the expert from ENGVA  
in order to correct the text of the Regulation.

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Note: This text is distributed to the experts of the Working Party on  
Pollution and Energy only.

GE.01-

**A. PROPOSAL**

Through the Regulation and its annexes, amend the words "check valve" to read "non-return valve" (in French "soupape de contrôle" or "soupape antiretour" to read "clapet antiretour"; in Russian "stoporny klapan" to read "obratnyi klapan").

Through the Regulation and its annexes (French only), amend the words "CNG" to read "GNC" (including the figure in annex 6).

Paragraph 2.2., amend to read:

" .....  
(f) gas supply device  
..... "

Paragraph 2.5. (French only), amend to read:

" ..... indépendents soit combinés) :"

Paragraph 2.9., amend to read:

"2.9. "Non-return valve" means ....."

Paragraph 2.17., amend to read:

"2.17. "Gas supply device"

Insert new paragraphs 2.17.1. and 2.17.2., to read:

"2.17.1. "Gas/air mixer" means a device for mixing the gaseous fuel and intake air for the engine.

2.17.2. "Gas injector" means a device for introducing gaseous fuel into the engine or associated intake system."

Paragraph 4.3. (e)., amend the word "weight" to read "mass"

Paragraph 17.1.7.1., amend the reference to "paragraph 17.1.8." to read "paragraph 17.1.7."

Paragraph 17.1.7.2., amend the reference to "paragraph 17.1.8.1." to read "paragraph 17.1.7.1."

Paragraph 17.3.1.9., amend to read:

"17.3.1.9. Gas supply device;"

Paragraph 17.5.5.5., amend to read:

" ..... permanent deformations. In this circumstances a leak not exceeding 100 cm<sup>3</sup> per hour may be accepted."

Annex 1A,

Item 1.2.4.5.3., amend to read:

"1.2.4.5.3. Gas/air mixer: yes/no 1/"

Item 1.2.4.5.5., amend to read:

"1.2.4.5.5. Gas injector(s): yes/no 1/"

Annex 1B,

Item 1.2.4.5.3., amend to read:

"1.2.4.5.3. Gas/air mixer: yes/no 1/"

Item 1.2.4.5.5., amend to read:

"1.2.4.5.5. Gas injector(s): yes/no 1/"

Annex 2B,

Item 1., amend to read:

" .....  
.....or receptacle 2/  
Gas injector(s) 2/  
Gas flow adjuster 2/  
Gas/air mixer 2/  
Electronic ....."

Annex 2B - Addendum,

Item 1.13., amend to read:

"1.13. Gas injector(s)  
Working .....  
....."

Item 1.15., amend to read:

"1.15. Gas/air mixer  
Working .....  
....."

Annex 2 C, Model A (French only), the reference to "Regulation No. 67" should read to "Regulation No. 110"

Annex 2 D, (French only), amend the expression "GPL" to read "GNC"

Annex 3,

Table 6.3. column GNC-1 (English and Russian only), amend the value "450" to read "45"

Paragraph 11.1. (French only), amend to read:

"11.1. Réalisation du marquage

Le fabricant doit effectuer un marquage permanent lisible dépassant 6 cm de hauteur sur .....

Annex 3 - Appendix A,

Item A.10. (English only), amend the reference to "cc/hr" to read "cm<sup>3</sup>/h"

Annex 4 B,

Paragraph 3.5.3.2., amend to read:

"3.5.3.2. The leakage through the wall of the hose shall not exceed 95 cm<sup>3</sup> per metre of hose per 24 h."

Paragraph 3.5.3.3., amend to read:

" ..... during 10 minutes. The leakage through the wall of the hose shall not exceed 95 cm<sup>3</sup> per metre of hose per 24 h."

Annex 4 G, amend the word "injector" to read "gas injector" (nine times)

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## **B. JUSTIFICATION**

1. At several places the text speaks of gas/air mixer (carburettor or injector(s)).

A carburettor is a mixing device operating such that the air flows through it and automatically draws in the gas.

A gas injector is not a mixer; it is only introducing gas into the combustion air (central or multi-point in the manifold or directly in the cylinder).

It is not allowed to use the same expression (gas/air mixer) for two different functions.

Therefore, it is proposed to use the expression gas supply device instead of gas/air mixer and use the terms and definitions of ISO 15500-1: gas/air mixer and gas injector.

2. The new words added to annex 4 B, paragraphs 3.5.3.2. and 3.5.3.3. are the same than those of paragraph 2.5.1.3.

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