Proposal for corrigendum to global technical regulation (gtr) No. 2

(ECE/TRANS/180/Add.2/Amend.1)

I. Proposal

Paragraph 8.1.1.4.2., replace the Equation 8-2 as below:

"8.1.1.4.2. Hydrocarbons

... by means of the following formula:

$$HC_m = \frac{HC_c \times V \times dHC}{\text{dist} \times 10^{6-3}}$$

Equation 8-2

...

Paragraph 8.1.1.4.3., replace the Equation 8-4 as below:

"8.1.1.4.3. Carbon monoxide

...by means of the following formula:

$$CO_m = \frac{CO_c \times V \times dCO}{\text{dist} \times 10^{6-3}}$$

Equation 8-4

...'

Paragraph 8.1.1.4.4., replace the Equation 8-6 as below:

"8.1.1.4.4. Nitrogen oxides

...by means of the following formula:

$$NO_{x_m} = \frac{NO_{x_c} \times K_h \times V \times dNO_2}{\text{dist} \times 10^{\frac{1}{6}}}$$

Equation 8-6

,,

Paragraph 8.1.1.4.5., replace the Equation 8-10 as below:

"8.1.1.4.5. Carbon dioxide

... by means of the following formula:

$$CO_{2m} = \frac{CO_{2c} \times V \times dCO_2}{\text{dist} \times 10^2} \times 10$$

Equation 8-10

,

Annex 13, paragraph 1 Figure A13-1, correct the line for "acc.gear 1" in the upper figure for "gear use during acceleration phases" as shown below.

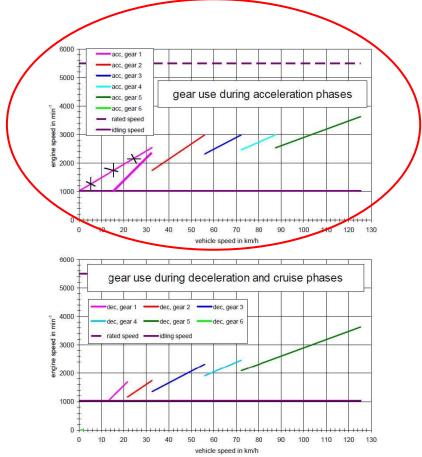


Figure A13-1: Example of a gearshift sketch

II. Justification

1. Paragraph 8

The equations 8-2, 8-4, 8-6, and 8-10 need to be corrected in accordance with the unit of each factor in the equation. The calculated pollutants are shown in kg/km, while the V is in m^3 and dHC in kg/ m^3 , which means the value needs to be multiplied by 10^{-3} (by 10 for CO_2) and the denominator needs to be corrected accordingly.

2. Annex 13, paragraph 1 Figure A13-1

In the upper figure for "gear use during acceleration phases", the acceleration gear 1 starts from zero, which is not correct.

2