

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 28  
REGARDING AUDIBLE WARNING DEVICES

The document is about some questions relating to ECE Regulation No. 28. As China has a National Standard which is technically equivalent to ECE Regulation No. 28, the expert from China seeks the advice of GRB with regard to the provisions on sound pressure levels:

- [6.2.7. *under the conditions set forth above, the sound pressure level weighted in accordance with curve A shall not exceed the following value:*
- (a) *115 dB(A) for AWDs intended principally for motor cycles with a power less than or equal to 7 kW;*
  - (b) *118 dB(A) for AWDs intended principally for vehicles of categories M and N, and motor cycles with a power greater than 7 kW.*
- 6.2.7.1. *In addition, the sound pressure in the frequency band 1,800 to 3,550 Hz shall be greater than that of any component of a frequency above 3,550 Hz and in any event equal to or greater than:*
- (a) *95 dB(A) for AWDs intended principally for motor cycles with a power less than or equal to 7 kW;*
  - (b) *118 dB(A) for AWDs intended principally for vehicles of categories M and N, and motor cycles with a power greater than 7 kW.]*

As specified in paragraph 6.2.7.1. above of ECE Regulation No. 28, "the sound-pressure level in the frequency band 1,800 to 3,550 Hz shall be greater than 105dB(A)". However, this requirement proved to be too high for trumpet horns to comply with.

In recent years, a larger number of tests have been conducted in China on trumpet horns produced by manufacturers all over the world. The tests results show that none of these trumpets horn, including those imported from Europe passed the sound-pressure level requirements in the frequency band 1,800-3,550 Hz specified in ECE Regulation No. 28.

The questions are:

1. Do GRB have received similar complaints or reports from manufactures or other countries especially European countries?
2. Do GRB have a plan to revise the requirements for frequency spectrum in Regulation No. 28?
3. Considering the fact that passenger cars are equipped with trumpet horns, China proposes to amend paragraph 6.2.7. as follows:

- "6.2.7. *under the conditions set forth above,*
- (a) *the sound pressure level weighted in accordance with curve A shall be at least 95 dB(A) and not great than 118 dB (A) for AWDs intended principally for motor cycles with a power less than or equal to 7 kW;*
  - (b) *the sound pressure level weighted in accordance with curve A shall be at least 105 dB(A) and not great than 118 dB(A) for AWDs intended principally for vehicles of categories M and N, and motor cycles with a power greater than 7 kW.*

- 6.2.7.1. *In addition, the **total** sound pressure in the frequency band 1,800 to 3,550 Hz shall be greater than that of any component of a frequency above 3,550 Hz."*