



**Economic and Social  
Council**

Distr.  
GENERAL

TRANS/WP.29/GRSG/2004/16  
13 July 2004

ENGLISH  
Original: ENGLISH  
ENGLISH AND FRENCH ONLY

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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on General Safety Provisions (GRSG)  
(Eighty-seventh session, 12-15 October 2004,  
agenda item 10.1.)

AMENDMENT PROPOSAL TO DRAFT GLOBAL TECHNICAL REGULATION ON  
HAND CONTROLS, TELL-TALES AND INDICATORS  
PRESENT ON CATEGORY 1 AND 2 VEHICLES  
(TRANS/WP.29/2000/8/Rev.3)

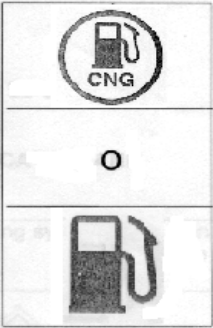
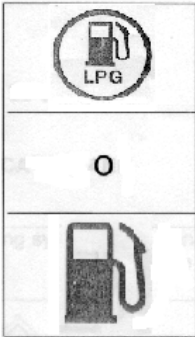

Transmitted by the expert from the India


Note: The text reproduced below is based on the text of informal document No. GRSG-86-27  
(TRANS/WP.29/GRSG/65, para. 30.).

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Note: This document is distributed to the Experts on General Safety Provisions only.



	<p>b) For all other vehicles (Three position switch)</p> <p>b1.) Vehicles running on CNG</p> <p>b2.) Vehicles running on LPG</p>	 			
42	CNG Fuel level		Tell-tale	Yes	Yellow
			Indicator */(Example of indicator is given below)	Yes	

	LPG Fuel level		Tell-tale	Yes	Yellow
			Indicator */(Example of indicator is given below)	Yes	

"

Add the following footnote 12/:

"12/ Bi-fuel system is defined as a system equipped to operate either on CNG / LPG or some other fuel e.g. petrol."

Table 2,

Symbols for controls, tell-tales and indicators required in electric or hybrid electric road vehicles should be included in other symbols.

\* \* \*

**B. JUSTIFICATION**

India is one of the largest operators of automotive vehicles running on Bi-fuel i.e. on CNG / LPG or petrol.

Re. Table 1

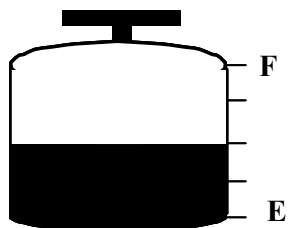
In Bi-fuel vehicles, a fuel selector switch (control) is required for the selection of fuel to be used from the available fuels (e.g. CNG / LPG and petrol ). Identification of this switch (control) is necessary hence a symbol is suggested.

In case of Bi-fuel vehicles fitted with electronic fuel injection systems, a two-position switch (control) is required for selection of fuel.




In the case of other Bi-fuel vehicles (e.g. carburettor fitted), a three-position switch (control) is required, particularly when switching over from petrol to CNG mode to empty the petrol from the carburettor bowl.

Symbols No. 7 of Table 1 used for fuel level tell-tale and indicator are normally used for fuel petrol/diesel. A separate symbol as given above is available in ISO:2575:2000 for CNG / LPG fuel and suggested to be used in the case of CNG / LPG fuel level tell-tale and indicators.

\* / Example of indicator for fuel level.



Reference for symbols:

1.		ISO 2575:2000 ( E ) Road Vehicles- Symbols for controls, indicators and tell-tales Annex G- Fuel System G-01
2.		ISO 2575:2000 ( E ) /Amd. 1:2001(E) Annex Z-Special Signs Z-4
3.		ISO 2575:2000 ( E ) /Amd. 1:2001(E) Annex Z-Special Signs Z-5

Re. Table 2

There is a need for the symbols to identify the controls, tell-tales and indicators, such as state of propulsion battery, electric motor, etc. to be used in electric or hybrid electric road vehicles.

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