

Distr.: General  
2 December 2022

Original: English

---

**Economic Commission for Europe**

Inland Transport Committee

**Global Forum for Road Traffic Safety**

**Group of Experts on Road Signs and Signals**

**Ninth Informal session**

Geneva, 6 December 2022

Item 5 of the provisional agenda

**Non-Convention signs – “electric charging and alternative fuels**

**Alternative fuels, e-charging facility and e-vehicle**

**Submitted by FSV\***

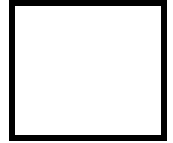
This document contains the F, 4 sign complemented by an additional panel (showing alternative fuels) as well as a separate additional panel with “electric vehicle” to complement signs such as C, 18.

---











\*This document is reproduced as received.

## Alternative fuels, e-charging facility and e-vehicle



Date	2022-11-29
Author:	Stefan Egger, Vienna, Austria stkegger@gmail.com
Version:	1.0





### E-charging facility (station or point)

<p>As discussed in the last session of GE.2 on 3<sup>rd</sup> and 4<sup>th</sup> November 2022, the Symbol with image content ‘electric plug with cord’ (Figure B1, right) is proposed to represent the meaning of “e-charging facility, station or point” (final description of the meaning pending).</p>	 B1)			
<p>Accordingly, there are possibilities for how a facility only for e-charging could be signalled. B1a) uses an additional panel, with sign F, 4, B1b) places the symbol B1) on the lower part of the blue ground, which reflects the proposed usage of the lower part in B2a and B2b (below).</p> <p>Alternative B1c) (right) places the symbol within the white square, reducing the amount of information on the F-sign.</p>	<table style="width: 100%; text-align: center;"> <tr> <td data-bbox="810 728 1037 1104">                       B1a)                 </td> <td data-bbox="1037 728 1268 1104">                       B1b)                 </td> <td data-bbox="1268 728 1500 1104">                       B1c)                 </td> </tr> </table>	 B1a)	 B1b)	 B1c)
 B1a)	 B1b)	 B1c)		

### Alternative fuels on sign F, 4, including e-charging

<p>Figure B2a) and B2b) proposes the use of fuel indications on the lower part of the blue ground. As discussed in the last session of GE.2 on 3<sup>rd</sup> and 4<sup>th</sup> November 2022, the character “plus” (+) identifies the fuel indications to be additional to the regular fuels to be found on a fuel station. The two depictions of sign F, 4 are practically the same, only to show the possibility to mix abbreviation-based fuel identifications made of text, with symbol B1), since the symbol is more legible than letters (text).</p>	 B2a)	 B2b)
--	---	---

### Electric vehicle

<p>In order to represent any electric vehicle through a symbol (B3, right), it seems obvious to combine the meaning of ‘car in front view’ as used in the Convention in various signs (e.g. C, 3a, C, 4a, C, 4b, E, 6a etc) with symbol B1) ‘electric plug with cord’. In order to clarify the aspect of “electric” and provide best-possible legibility (discriminability), ‘plug and cord’ is magnified beyond actual proportion.</p> <p>Figure B3a) presents the use of an additional panel with a parking restriction, allowing only electric vehicles to park.</p>	 B3)	 B3a)
---	--	---