

Proposal for a new Regulation on Electronic Stability Control (ESC)

The text reproduced below was prepared by the expert from India to amend and correct the changes to ECE/TRANS/WP.29/GRRF/2014/12 document.

The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal & Justification

Sr. No	Page No.	Clause No.	Current Text	Recommended Text	Justification
1	3 , 4	2.7	Sub Clause no. is mentioned as 2.8.1. , 2.8.2. so on	Sub Clause no. is mentioned as 2.7.1. , 2.7.2. so on	Main Clause no is 2.7 so Sub Clause no. should be 2.7.1.
2	8	Figure 1	Steering wheel position and yaw velocity	Steering wheel position and yaw rate	For better clarity as document defines yaw rate and not yaw velocity

3	4	2.16	-----	<p>Insert paragraph 2.16</p> <p>2.16. "Vehicle Stability Function" means an electronic control function for a vehicle which improves the dynamic stability of the vehicle.</p> <p>2.16.1. A vehicle stability function includes one or both of the following:</p> <p>(a) Directional control;</p> <p>(b) Roll-over control.</p> <p>2.16.2. Control functions within a vehicle stability function:</p> <p>2.16.2.1. "Directional control" means a function within a vehicle stability function that assists the driver, in the event of under steer and over steer conditions, within the physical limits of the vehicle in maintaining the direction intended by the driver in the case of a power-driven vehicle, and assists in maintaining the direction of the trailer with that of the towing vehicle in the case of a trailer.</p> <p>2.16.2.2. "Roll-over control" means a function within a vehicle stability function that reacts to an impending roll-over in order to stabilise the power-driven vehicle or towing vehicle and trailer combination or the trailer during dynamic manoeuvres within the physical limits of the vehicle.</p>	<p>For better clarity for vehicles equipped with Vehicle stability function including roll over function</p>
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4	2	Annexes	-----	<p>Addition of New Annexure:</p> <p>8 Requirements for vehicles equipped with a vehicle stability function</p> <p>Appendix 1: Use of the dynamic stability simulation</p> <p>Appendix 2: Dynamic stability simulation tool and its validation</p> <p>Appendix 3: Vehicle stability function simulation tool test report</p>	<p>Insert new annexure for better clarity on definition of “Vehicle stability function” and testing requirement of vehicle equipped with a vehicle stability function / roll over function as in current ECE R13-H reference for ECE R13 is given in clause number “5.2.24.1”</p>
5	2	Annexes	<p>Annexure 3 Use of the dynamic stability simulation</p> <p>4 Dynamic stability simulation tool and its validation</p> <p>5 Vehicle stability function simulation tool test report</p>	<p>Deletion of Annexure 3,4,5</p>	<p>Deletion of duplicate annexure as are already added as appendix of new annexure 8 similar to ECE R13</p>