



Informal document N° 7
 (50th GRRF, 10-12 September 2001
 agenda item 5)

PROPOSAL FOR DRAFT AMENDMENT TO ECE R79

Proposal to amendment to ECE R79 in order to align the steering efforts of M3 category rigid vehicles having 2 or more steered axles with the 50 daN maximum effort allowed for N3 vehicles.

A PROPOSAL

Paragraph 6.2.6.2. amend to read

6.2.6.2. The maximum permitted steering time and the maximum permitted steering control effort with a failure in the steering equipment are given in the table below for each category of vehicle.

Table

STEERING CONTROL EFFORT REQUIREMENTS

Vehicle Category	INTACT			WITH A FAILURE		
	Maximum effort (daN)	Time (s)	Turning radius (m)	Maximum effort (daN)	Time (s)	Turning Radius (m)
M ₁	15	4	12	30	4	20
M ₂	15	4	12	30	4	20
M ₃	20	4	12 ^{**/}	45 ^{*/}	6	20
N ₁	20	4	12	30	4	20
N ₂	25	4	12	40	4	20
N ₃	20	4	12 ^{**/}	45 ^{*/}	6	20

^{*/} 50 for rigid vehicles with 2 or more steered axles excluding self tracking equipment

^{**/} or full lock if 12m radius is not attainable

B JUSTIFICATION

The EU harmonisation on bus and coach lengths requires vehicles over 13.5 metres and not exceeding 15 metres to have at least 3 axles. In order to respect the manoeuvrability requirements of the directive and those of ECE R36.03, 15 metres long vehicles need 2 steered axles. As these buses and coaches use the same steering technology, tyres, etc as trucks and are subject to the same vehicle and axle weight limitations, it would be suitable to align the steering effort requirements.