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Federal Department of the Environment, Transport,
Energy and Communications DETEC

Federal Roads Office FEDRO
Road Traffic Division

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Considerations regarding the rollaway distance for light and heavy motor vehicles

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Proposals for the introduction of the park lock device as a parking braking system

UN Regulation 13-H [GRVA-20-07](#)

I.Proposal

Paragraph 5.2.1.10., amend to read:

“5.2.1.10. The service, secondary and parking braking systems shall act on braking surfaces connected to the wheels through components of adequate strength.

The parking braking system may use a *park lock* device as an alternative to *or in combination with the* means acting on the braking surfaces. This park lock device shall consist of components of an adequate strength and shall provide equal effectiveness compared to layouts purely acting on the braking surfaces to fulfil the requirements set out in annex 4, paragraphs 2.3.1. and 2.3.2. of this Regulation. *It shall be ensured that the vehicle does not move more than 150 mm after the activation of the parking braking system before the park lock device is fully engaged.*

Rolling distance = **150 mm** (~ 6 inch)

UN Regulation 13 [GRVA-20-06](#)

I.Proposal

Paragraph 5.2.1.10., amend to read:

“5.2.1.10. The service, secondary and parking braking systems shall act on braking surfaces connected to the wheels through components of adequate strength.

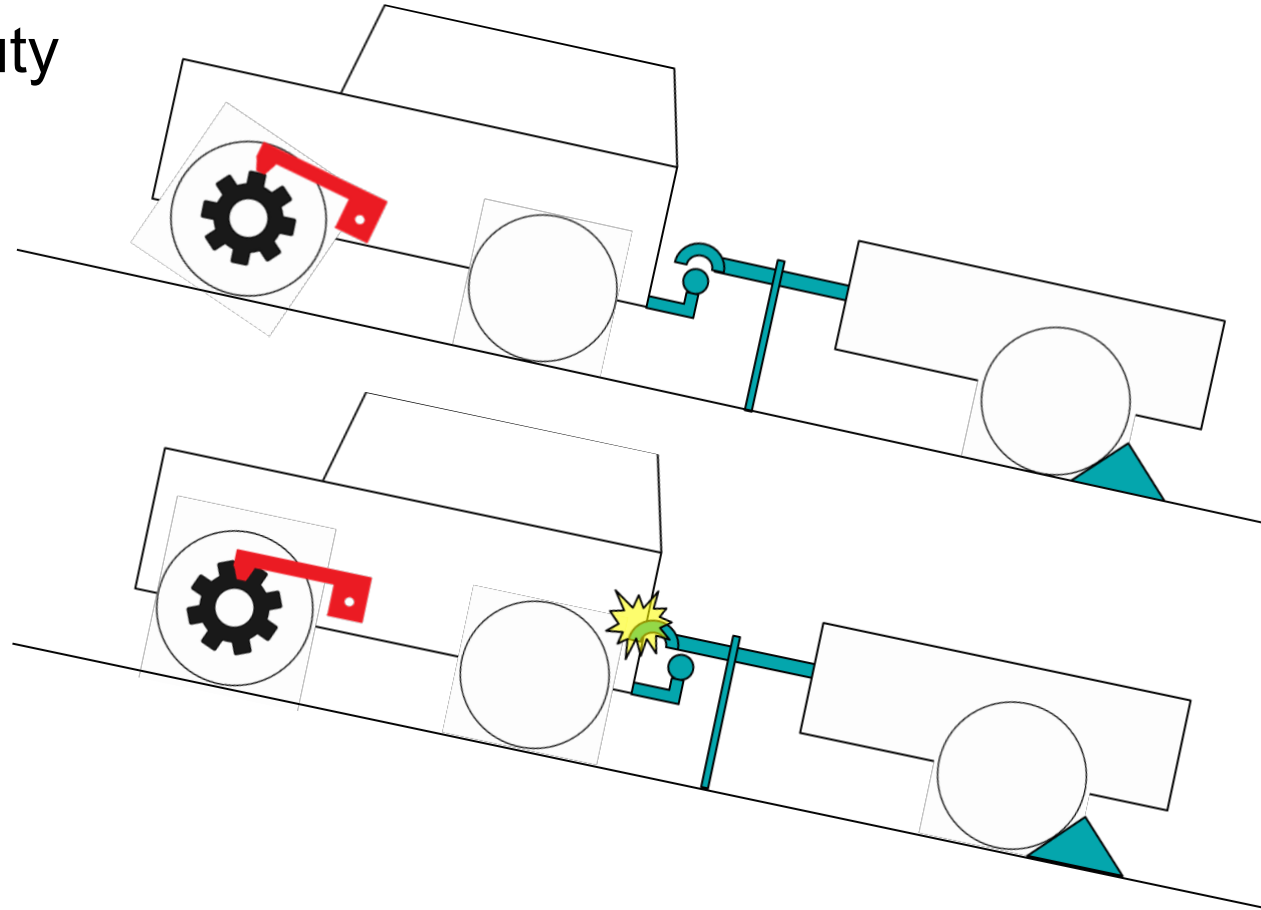
The parking braking system may use a *park lock* device as an alternative to *or in combination with the* means acting on the braking surfaces. This park lock device shall consist of components of an adequate strength and shall provide equal effectiveness compared to layouts purely acting on the braking surfaces to fulfil the requirements set out in annex 4, paragraphs 2.3.1. and 2.3.2. of this Regulation. *It shall be ensured that the vehicle does not move more than 300 mm after the activation of the parking braking system before the park lock device is fully engaged.*

Rolling distance = **300 mm** (~12 inch)



rollaway distance 150 mm – UN Regulation 13-H

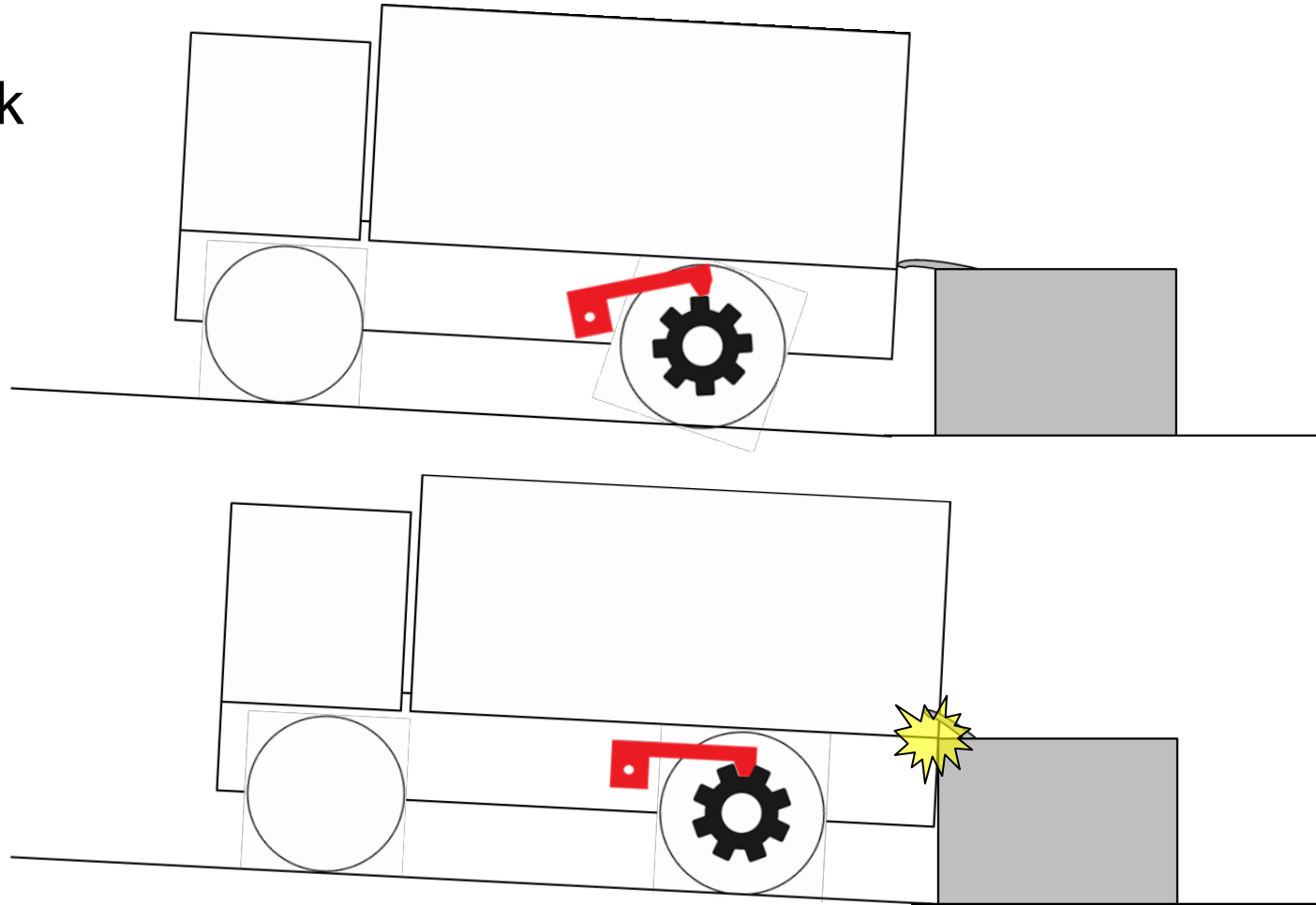
Coupling a trailer to a passenger car or light-duty commercial vehicle





rollaway distance 300 mm – UN Regulation 13

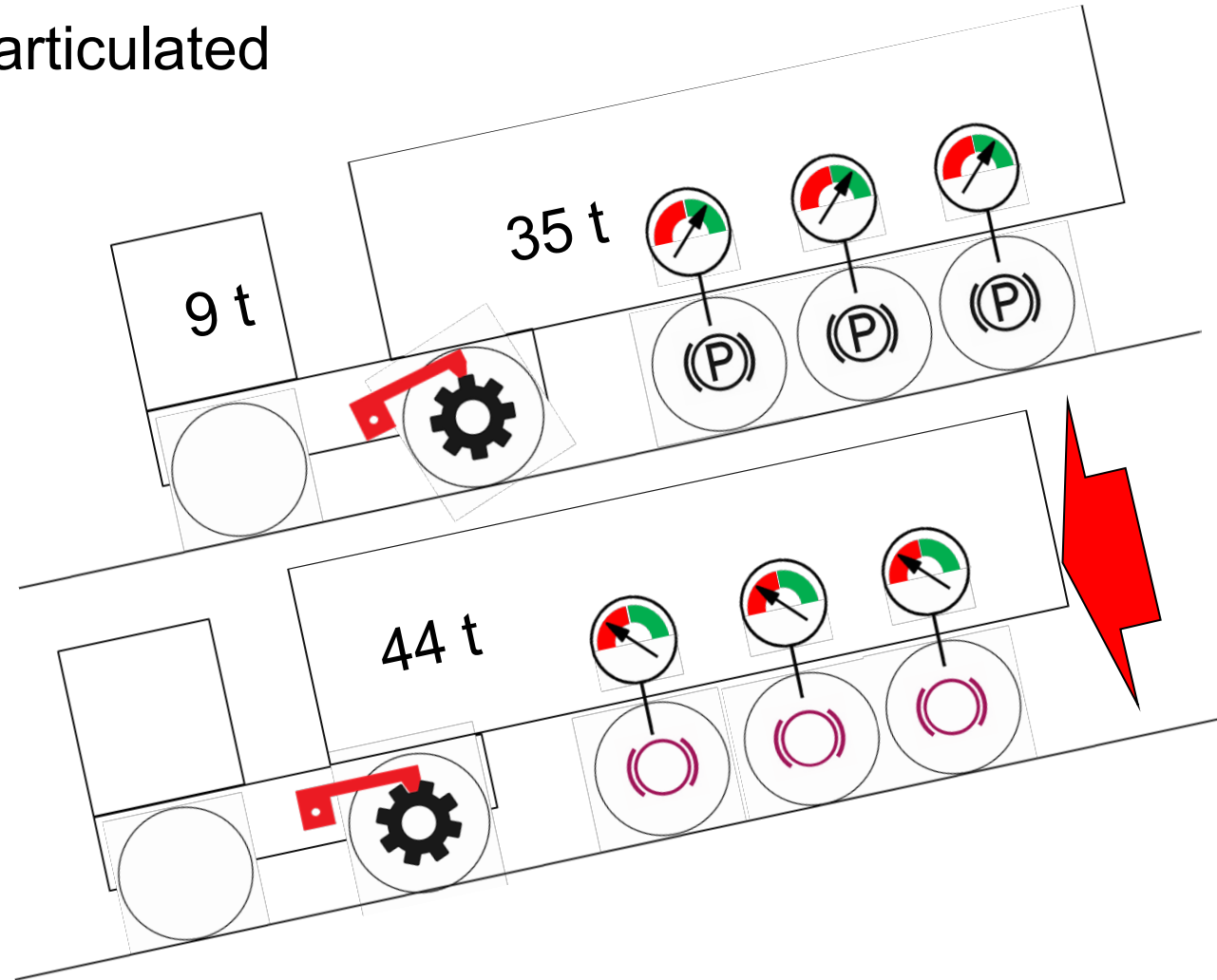
Parking at loading dock





rollaway distance 300 mm – UN Regulation 13

Parking of an articulated vehicle



< 12% gradient
UN-R13 Annex 4 2.3.2

... after
hours ...