

## Attachment 17 Static strength of coupling devices for trailer towed by small vehicles:

### 17.1 Scope

17.1.1 Coupling device of trailer (category O1 and O2) towed by M1, N1 vehicles shall comply with this regulation.

17.1.2 The coupling device installed on vehicle of category M1,N1,O1, O2 applying for low volume safety approval or vehicle-by-vehicle low volume safety approval could exempt from this regulation.

### 17.2 Definition:

17.2.1 Coupling device of trailer (category O1 and O2) towed by M1, N1 vehicles: means the device connecting vehicle of category M1, N1 and trailer (category O1 and O2) towed by them, which can be divided into the towing bracket and coupling component separately.

17.2.2 Towing bracket: contains the framing structure and coupling ball, installed in vehicle of category M1, N1 linked to trailer (category O1 and O2).

17.2.3 Coupling component: installed on the body of trailer (vehicle of category O1 and O2), used to couple together with the towing bracket for vehicle of category M1, N1.

17.2.4 Declared load: the maximum traction or bearing load of vehicle components, declared by manufacturers.

17.3 Static strength of coupling devices for trailer ( category O1 and O2 ) towed by M1,N1 vehicle shall according to suitable types and range of principle : Except for the brand and type series shall be the same, also shall comply with following regulation: (the towing brackets and coupling components can be applied together or separately)

17.3.1 The same declaring load by the manufacturer.

17.3.2 The same bolting dimension or sphere diameter of towing brackets.

17.4 Description of the function and specification: Shall describe installing method, location and the declaring load.

### 17.5 Inspection standard:

17.5.1 The application direction and value of force.

17.5.2 Judging standard: when the external tensile force, compressed force and thrust force applied to the vehicle components have exceed the force specified below, the component under test shall not break and separated off therewith.

17.5.2.1 Forward & backward: twice of the manufacturer's declared load.

17.5.2.2 Right & left: 70% of the manufacturer's declared load.

17.5.2.3 Up & down: equal to the manufacturer's declared load.

17.5.3 The towing brackets and the coupling components can be tested together or separately.