

Road Transport (Dimensions and Mass) (Mass Limits of Vehicles or Combinations) Determination 2006 (No 1)

Disallowable Instrument DI2006–119

made under the

Road Transport (Dimensions and Mass) Act 1990, Section 57 (Determinations)

1. Name of Instrument

This instrument is the *Road Transport (Dimensions and Mass) (Mass Limits of Vehicles or Combinations) Determination 2006 (No 1)*.

2. Commencement

This instrument commences on the day after it is notified on the ACT Government Legislation Register.

3. Gross mass - determination

I determine for the purposes of section 24(1)(c) and 24(2)(c) of the Act that the gross mass of a vehicle, or of a vehicle and a trailer or semi-trailer coupled to it, shall not exceed the mass in tonnes set out in Schedule 1 in relation to the class of vehicle or combination.

4. Wheel and axle loads - determination

I determine for the purposes of section 25 of the Act, the mass carried by the wheel of an axle, the axle load of an axle, or the axle group load of an axle group of a vehicle shall not exceed the mass in tonnes set out in Schedule 2 in relation to the relevant class of wheels, axles or axle groups.

A diagram appearing in this determination is illustrative only.

5. Revocation

I revoke disallowable instrument number DI 2000-303.

John Hargreaves
Minister for the Territory and Municipal Services

20 June 2006

SCHEDULE 1

1. Mass limits for a single vehicle or combination

- 1.1 The total mass of a combination other than a road-train or B-Double, including any load, must not exceed 42.5 tonnes.
- 1.2 The combined mass of a dog or pig trailer and its load must not exceed the combined mass of the towing vehicle and its load.
- 1.3 If the manufacturer of a motor vehicle forming part of a B-Double has not determined the Gross Combination Mass (GCM) of the vehicle, the total mass of the combination and any load must not exceed the number of kilograms worked out using the following formula:

$$\text{Mass in kilograms} = \frac{K \times M \times R \times T}{16}$$

where:

K means:

- (a) 0.055 if a single drive axle is fitted to the vehicle; or
- (b) 0.053 if a single drive tandem axle group fitted to the vehicle; or
- (c) 0.051 if a dual drive tandem axle group is fitted to the vehicle.

M means:

The number of tyre revolutions per kilometre as specified by the tyre manufacturer for the tyres fitted to the driving axle or axles.

R means:

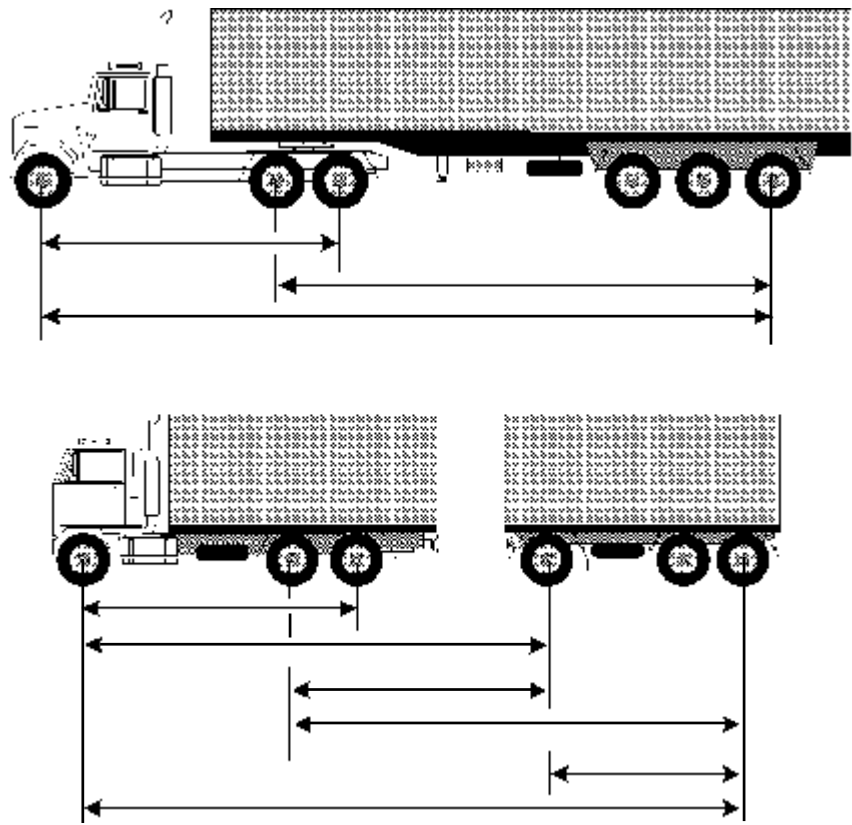
The overall gear reduction between engine and the drive wheels.

T means:

The maximum engine net torque in newton metres.

2. Mass limits relating to axle spacing

- 2.1 If the total mass of a vehicle or a combination, and any load, cannot lawfully exceed 42.5 tonnes, the mass limits in the Table contained in this Schedule, must not be exceeded in relation to the distances set out in the Table that apply to the vehicle or combination.
- 2.2 Each distance in the Table refers to:
- (a) The distance from the centre of any single axle to the centre of any other single axle; or
 - (b) The distance from the centre of any single axle to the centre of the furthest axle in any axle group; or
 - (c) The greatest distance between the centres of axles in any 2 axle groups.



Measurement of distances for Table in Schedule 1

- 2.3 The mass limits in the Table apply to the sum of the mass on each axle group or single axle in the distance referred to in the table, including the axles between which the distance is measured.
- 2.4 The total mass of a vehicle or combination, and any load, must not exceed 15 tonnes if the distance between any 2 axles that are not part of the same axle group is less than 2.5 metres.

Table: Schedule 1: Mass Limits relating to axle spacing

Distance (metres)		Mass Limit (tonnes)
Exceeding	Not Exceeding	
0	3.7	23.0
3.7	3.8	23.5
3.8	4.0	24.0
4.0	4.2	24.5
4.2	4.3	25.0
4.3	4.5	25.5
4.5	4.7	26.0
4.7	4.8	26.5
4.8	5.0	27.0
5.0	5.2	27.5
5.2	5.3	28.0
5.3	5.5	28.5
5.5	5.7	29.0
5.7	5.8	29.5
5.8	6.0	30.0
6.0	6.2	30.5
6.2	6.3	31.0
6.3	6.5	31.5
6.5	6.7	32.0
6.7	6.8	32.5
6.8	7.0	33.0
7.0	7.2	33.5
7.2	7.3	34.0
7.3	7.5	34.5
7.5	7.7	35.0
7.7	7.8	35.5
7.8	8.0	36.0
8.0	8.2	36.5
8.2	8.3	37.0
8.3	8.5	37.5
8.5	8.7	38.0
8.7	8.8	38.5
8.8	9.0	39.0
9.0	9.2	39.5
9.2	9.3	40.0
9.3	9.5	40.5
9.5	9.7	41.0
9.7	9.8	41.5
9.8	10.0	42.0
10.0		42.5

SCHEDULE 2

1. Mass limits for tyres, wheels and axles

- 1.1 The mass on a wheel or axle must not exceed the limit set by its manufacturer.
- 1.2 The mass on a tyre must not exceed the greatest load capacity determined for the tyre by the manufacturer at a cold inflation pressure that does not exceed:
 - (a) 825 kilopascals for a radial ply tyre; or
 - (b) 700 kilopascals for any other tyre.
- 1.3 The mass on an axle group or single axle must not exceed the limit provided for it in the Table contained in this Schedule.
- 1.4 The mass limit in the Table that applies to an axle group that includes a retractable axle, must be calculated as if the axle did not exist, unless subsection 1.5 applies.
- 1.5 A retractable axle is part of an axle group for the purposes of the Table if, when the mass on the group exceeds:
 - (a) 6 tonnes, in the case of a tandem axle group; or
 - (b) 11 tonnes, in the case of a tri-axle group; andthe tyres on the axle are in contact with the ground and the load-sharing suspension system is operating on each axle (including the retractable axle) and tyre in each group.
- 1.6 The sum of the mass on the axle groups and single axles on a vehicle or combination must not exceed the sum of the mass limits of the axle groups and axles, as provided in the Table.

Table: Schedule 2: Mass Limits for single axles and axle groups

Description of single axle or axle group	Mass limit (tonnes)
<p>Single Axles and single axle groups:</p> <p>Single steer axle on a vehicle</p> <p>Single axle or single axle group fitted with single tyres with section width of:</p> <p>a) less than 375mm</p> <p>b) at least 375mm but less than 450mm</p> <p>c) at least 450mm</p> <p>Single axle or single axle group fitted with dual tyres on:</p> <p>a) a pig trailer</p> <p>b) a bus licensed to carry standing passengers</p> <p>c) an ultra low floor bus licensed to carry standing passengers while retaining a GVM of 16.0 tonnes</p> <p>d) any other vehicle</p>	<p>6.0</p> <p>6.0</p> <p>6.7</p> <p>7.0</p> <p>8.5</p> <p>10.0</p> <p>11.0</p> <p>9.0</p>
<p>Twinsteer axle groups:</p> <p>a) Twinsteer axle group without a load-sharing suspension system</p> <p>b) Twinsteer axle group with load-sharing suspension system</p>	<p>10.0</p> <p>11.0</p>
<p>Tandem axle groups:</p> <p>Tandem axle group fitted with single tyres with section width of:</p> <p>a) less than 375mm</p> <p>b) at least 375mm but less than 450mm</p> <p>c) at least 450mm</p> <p>Tandem axle group fitted with single tyres on one axle and dual tyres on the other axle</p> <p>Tandem axle group fitted with dual tyres on:</p> <p>a) a pig trailer</p> <p>b) any other vehicle</p>	<p>11.0</p> <p>13.3</p> <p>14.0</p> <p>13.0</p> <p>15.0</p> <p>16.5</p>
<p>Tri-axle groups:</p> <p>Tri-axle group on a vehicle fitted with single tyres with a section width of less than 375mm on all axles, or single tyres on 1 or 2 axles and dual tyres on the other axle or axles</p> <p>Tri-axle group on a pig trailer with either single tyres with section width of at least 375mm, dual tyres on all axles, or a combination of those tyres</p> <p>Tri-axle group, on a vehicle other than a pig trailer, with either single tyres with section width of at least 375mm, dual tyres, or a combination of those tyres</p>	<p>15.0</p> <p>18.0</p> <p>20.0</p>
<p>Quad-axle groups:</p> <p>Quad-axle group fitted with single tyres with section width of less than 375mm</p> <p>Quad-axle group fitted with single tyres with section width of at least 375mm or dual tyres</p>	<p>15.0</p> <p>20.0</p>