



AUSTRALIAN RAIL TRACK CORPORATION LTD

Discipline
Engineering Standard

Category
Rolling Stock

Glossary of Terms

WOS 01.B

Applicability

ARTC Network wide	
New South Wales	✓
Western Jurisdiction	
Victoria	

Primary Source
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WOS 01.B - Glossary

This section defines words that are used in the Rolling Stock Operation Standards.

Agreed	Agreed between the Owner/Operator and the Australian Rail Track Corporation.
Approved	Approved by the Australian Rail Track Corporation.
Cant deficiency	The difference in superelevation between that required to balance the actual vehicle centrifugal force due to curve negotiation such that there is equal wheel loading on the high and low rail, and the actual superelevation existing in the curve.
Continuous tractive effort	The force that can be applied by the hauling vehicle for an indefinite period without causing overheating of the traction motors.
Curved wheel web	Wheel web which is domed such that its cross section is curved.
Design speed	The maximum speed at which a vehicle is expected to operate on the Australian Rail Track Corporation network.
Flat top trolley or trailer	A small non-powered track vehicle which is used for conveying tools and equipment along the track and which can be easily removed from the track.
Freight Train	A train predominantly consisting of freight vehicles.
Full supplies, Fully provisioned	Locomotive with all equipment and full of fuel, oil, water, coolant and sand.
Handbrake	A mechanical device provided on a train in order to secure the train or individual vehicles so as to prevent them from moving. Note: Where the term “handbrake” is used, it will also mean “parking brake”.
Heritage vehicle	Locomotive, passenger vehicle or freight vehicle that is not used in regular revenue service other than special interest runs, such as steam tours.
Light locomotive	One or more locomotives coupled together without vehicles attached.
Locomotive	A self propelled vehicle, powered by any form of energy, which does not convey passengers or freight but which is used to move one or more other vehicles which form a train.
Multiple unit train	A passenger train made up of similar electric or diesel powered cars and operating as a unit. Some cars may be non-powered.
Net brake ratio	The ratio of the sum of the actual measured brake block forces divided by the total vehicle mass.

On track maintenance vehicle	Any track maintenance vehicle which operates solely on the track.
Overhead wiring vehicle	A track maintenance vehicle with elevating platform or equipped for maintenance of the overhead wiring system.
Pantograph	An apparatus fixed to the roof of electrically powered trains and used to draw electricity from the overhead wire.
Power car	A self propelled vehicle, which may or may not convey passengers and/or freight, and operates in conjunction with similar vehicles in a multiple unit consist.
Quadricycle	A small self propelled rail-bound track vehicle which can be easily removed from the line.
Road/rail vehicle	Any type of track vehicle which can travel on either road or rail and can easily transfer from one mode of operation to the other.
Rova Mech	An authority issued for the movement of a vehicle for which there are no published operating conditions, or for which the operating conditions are different from those published.
Starting tractive effort	The force that can be applied by the hauling vehicle, to lift itself and its trailing load from stationary without excessive wheelslip.
Straight wheel web	Wheel web consisting of flat plate with no curvature such that its cross section is straight
S-plate wheel	Wheel with a web such that its cross section forms an S shape, designed to exhibit low wheel rim stresses.
Substantially modified vehicle	Vehicles modified to accommodate their use for a different purpose. Vehicles undergoing major refurbishment with updated equipment which alters the braking, traction or suspension systems. Vehicles being moved with equipment removed and resulting in a reduction of vehicle mass that could alter the vehicle performance. Vehicles modified such that it may be incompatible with the infrastructure.
Track repair vehicle	A rail bound self propelled track vehicle which is used to carry out repairs either to the track or to the 1500 volt overhead wiring equipment. Some of these vehicles can only be removed from the line by the use of special take-offs or portable turnouts.
Track vehicle	A vehicle, usually self propelled, which is not used for hauling or propelling freight or passenger vehicles but which is used mainly for the inspection and maintenance of the track. These types of vehicles vary widely on design and include overhead wiring vehicles, quadricycles, trolleys, road/rail vehicles, track repair machines and track inspection cars.
Train	A train is: <ul style="list-style-type: none">• any locomotive(s) or powered unit(s) either attached or unattached to vehicles• any self propelled passenger unit(s)