

Low Volume Vehicle Code

Developed and issued by the Low Volume Vehicle Technical Association Incorporated, with the approval of the New Zealand Transport Agency

The Low Volume Vehicle Code is the umbrella document that sets out the legal frame-work under which modified and individually-constructed motor vehicles may be modified and built, and legally registered for road use in New Zealand. The Low Volume Vehicle Code is incorporated by reference within the Land Transport Rule: Vehicle Standards Compliance 2002, which is the legislative document governing all motor vehicle certification in New Zealand, made by the Minister of Transport.

Issue 7 - effective from: 1 April 2011

Signed in accordance with clause 1.5 of the Low Volume Vehicle Code, onby

on behalf of the NZ Transport Agency:

on behalf on the LVVTA:

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Overview

Purpose of the LVV Code

The Low Volume Vehicle Code ('the Code') is a document that has been developed by the Low Volume Vehicle Technical Association Inc ('LVVTA'), with the approval of the New Zealand Transport Agency (the Agency). It is an umbrella document that sets out the legal framework under which the low volume vehicle certification system ('LVV certification system') in New Zealand operates for all modified and individually-constructed (scratch-built) vehicles.

The LVV certification system is necessary because it is not practical to test individual or low-volume modifications and construction features against the expensive test processes required by the international standards which apply to high-volume production vehicles.

The purpose of the low volume vehicle certification system, therefore, is to ensure that all modified production vehicles - whether modified for commercial, passenger service, disability, recreational, leisure, sporting, or compliance purposes – and scratch-built vehicles, have been designed and constructed in such a way that they are safe to be operated on the road, and comply as closely as practicable with the legal safety requirements applicable to high volume production vehicles.

Incorporation of other documents under the LVV Code

The Low Volume Vehicle Code (the Code) incorporates by reference a number of technical and procedural documents, which provide information and support on the way that the low volume vehicle certification process must be carried out.

The documents incorporated under the Code are the 'LVV Operating Requirements Schedule', the 'Low Volume Vehicle Standards', the 'Low Volume Vehicle Information Sheets', and the 'Low Volume Vehicle Form-sets'. The 'LVV Operating Requirements Schedule' (LVV ORS) provides the procedural and operational requirements of the certification system by which the Low Volume Vehicle Certifiers (LVV Certifiers) must operate. The 'Low Volume Vehicle Standards' (LVV Standards) provide a wide range of technical requirements from which the LVV Certifiers must base their technical decisions. The 'Low Volume Vehicle Forms and Form-sets' (LVV Forms and Form-sets) must be used by the LVV Certifiers to record the compliance details of each vehicle that they certify to the Code. The 'Low Volume Vehicle Information Sheets' (LVV Information Sheets) provide the LVV Certifiers with additional technical and procedural instructions on an as-and-when-required basis.

In addition to these documents, the Code also incorporates the 'New Zealand Hobby Car Technical Manual' (Hobby Car Technical Manual), which specifies the historical knowledge-based best-practice requirements for the safe modification and construction of extensively modified and scratch-built low volume vehicles. Each LVV Standard specifies that, where a particular modification or scratch-built feature is outside of the scope of an applicable LVV Standard, the provisions of the Hobby Car Technical Manual applies. Additionally, the Hobby Car Technical Manual applies in situations where an LVV Standard is not in force or applicable for a particular modification or scratch-built feature.

The LVV ORS, the LVV Standards, the LVV Information Sheets, the LVV Form-sets, and the Hobby Car Technical Manual are incorporated under the Code via Annexes 1 through 4, which are contained at the back of the Code.

Status of the LVV Code

The Code is legally binding because it was originally gazetted as an alternative standard under the Transport (Vehicle Standards) Regulations 1990 ('VSR90'), and in more recent times has been incorporated by reference within the 'Land Transport Rule: Vehicle Standards Compliance 2002' and many of the individual equipment rules (the 'Rules') made by the Agency for the Minister of Transport. Where any conflict or inconsistency is identified between the Code and any Land Transport Rules, a resolution to the conflict or inconsistency will be made by agreement reached by the NZTA-LVVTA Policy Working Group.

The Code itself, the LVV ORS, and the LVV Standards, or any amendment to any of those documents, are formally signed off by an authorised representative of LVVTA and an authorised representative of the Agency.

The LVV Forms and Form-sets, the LVV Information Sheets, and the Hobby Car Technical Manual are recognised and agreed by the Agency as mandatory documents within the LVV certification system. LVV Certifiers are bound by the requirements of the LVV Forms and Form-sets, LVV Information Sheets, and Hobby Car Technical Manual just as they are bound by the Code, LVV ORS, and LVV Standards.

Content of the Code

Part 1 of the Code sets out the procedures for developing and approving the Code itself, together with the LVV ORS and the LVV Standards.

Part 2 of the Code sets out the requirements for the inspection, certification, and fitting of LVV certification plates to low volume vehicles.

The LVV Certification Manual

The LVV Code, LVV ORS, LVV Standards, LVV Forms and Form-sets, and LVV Information Sheets are all contained within the 'Low Volume Vehicle Certification Manual' (LVV Certification Manual) of the LVVTA. The LVV Certification Manual is a multi-volume document that also includes a number of other supporting and advisory documents under a section called 'Supplementary Information'. In addition, the LVV Certification Manual contains a section which includes Type Approval, Component Approval, and Component Endorsement certificates, along with another section for LVVTA Newsletters.

It has been agreed by NZTA and LVVTA that the LVV Certification Manual fulfills the role for the LVV certification process which would otherwise be provided by an NZTA Vehicle Inspection Requirements Manual (VIRM). The existence of the LVV Certification Manual negates the need for an NZTA low volume vehicle VIRM.

The Hobby Car Technical Manual, whilst not incorporated within the LVV Certification Manual, is however an integral and essential part of the overall LVV certification system.

The way in which the various documents referred to above are incorporated by reference under the LVV Code, and fit within the LVV Certification Manual, is shown in *Diagram 1: Documents incorporated by reference under the LVV Code, & LVV Certification Manual*.

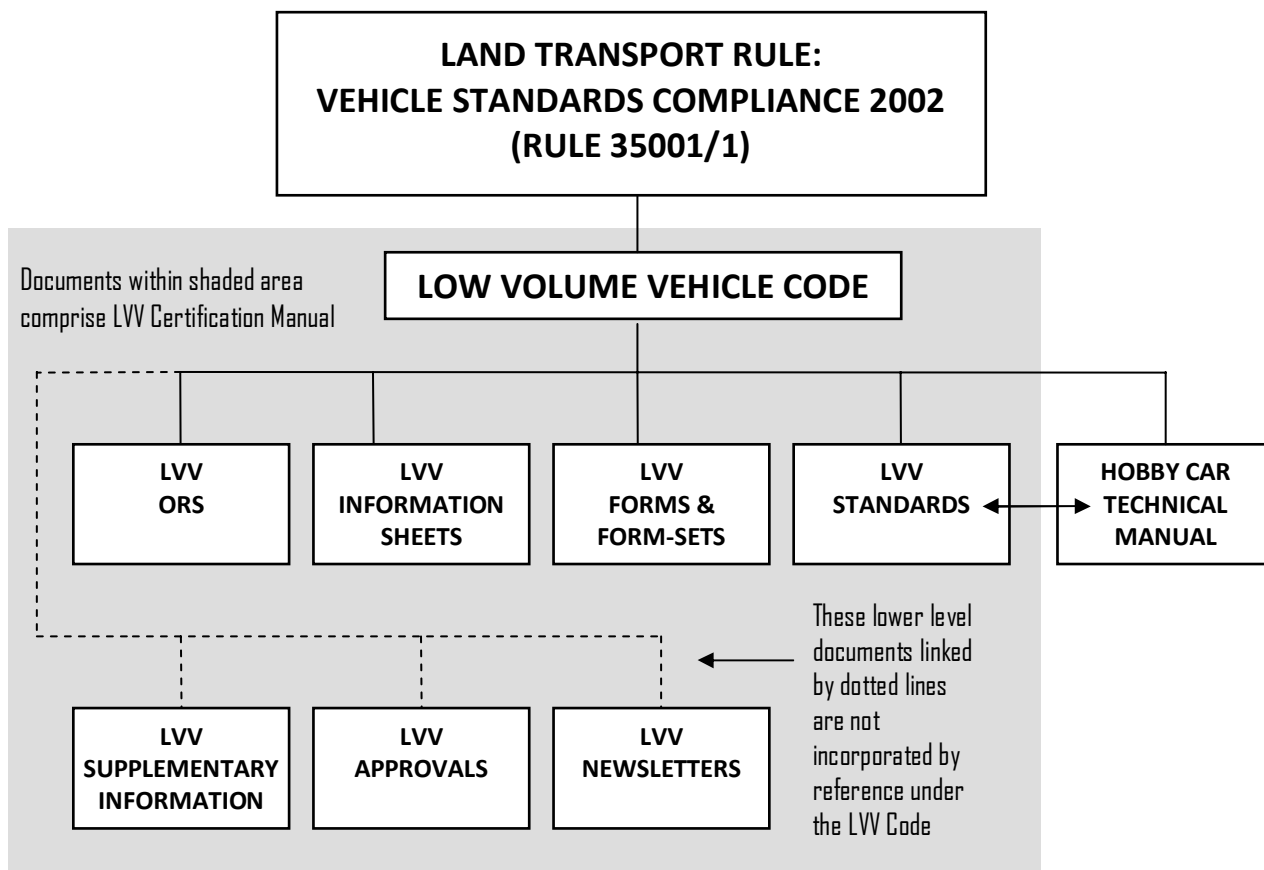


Diagram 1: Documents incorporated by reference under the Code, & LVV Certification Manual

Application of LVV Standards

Additional LVV Standards will come into force progressively over time, in many cases in step with the corresponding Rules, and will be applied as set out in this Code. If no LVV Standard is in force for a particular component or system, or a particular modification or scratch-built feature is outside of the scope of an applicable LVV Standard, either the relevant LVV Information Sheet or the technical requirements of the Hobby Car Technical Manual must be used to determine whether a low volume vehicle is safe to be operated on the road.

Availability of the Code

Copies of the Code, the LVV ORS, the LVV Standards, and the LVV Information Sheets, as they come into force, are available to the motor vehicle industry and public, free of charge, from the LVVTA website, www.lvvta.org.nz, or by request to the LVVTA office.

Part 1 Purpose, scope, and development

1.1 Purpose

1.1(1) The purpose of the Code is to set out requirements for providing assurance that, before being allowed to be operated on the road, scratch-built vehicles and modified production vehicles:

- (a) are safe to be operated on the road; and
- (b) comply as closely as practicable with the legal safety requirements applying to production vehicles of the same class and date of manufacture.

1.2 Scope

1.2(1) The Code applies to motor vehicles that are either scratch-built vehicles, or modified production vehicles, either:

- (a) of classes LC, LD, LE1, LE2, MA, MB, MC, MD1, MD2, and NA; or
- (b) that are vehicles of a class not in Table-A that do not exceed 3500 kg GVM.

NOTE 1: MA, MB, and MC classes have no upper gross vehicle mass (GVM) limit, therefore an MA, MB, or MC-class vehicle can exceed 3500 kilograms GVM, and can still be subject to the Low Volume Vehicle Code.

NOTE 2: Details of the classes referred to above can be found within *Table-A* of the *Land Transport Rule: Vehicle Standards Compliance 2002*, or *LVV Information Sheet 03-2010*.

1.2(1) The Code specifies, amongst other things:

- (a) in Part 1, requirements for developing and implementing the Code, LVV ORS, and LVV Standards; and
- (b) in Part 2, requirements for:
 - (i) determining whether or not a modification has affected compliance of a vehicle with an applicable requirement; and
 - (ii) inspecting, certifying, and affixing of LVV certification plates to low volume vehicles.

1.2(3) The LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and LVV Supporting Documents listed in *Annexes 1 through 4*, together with any amendments to those LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and LVV Supporting Documents, made after this version of the Code comes into force, are hereby incorporated into the Code.

NOTE: The reference to 'LVV Supporting Documents' in 1.2(3) is the LVV ORS and the Hobby Car Technical Manual, and any other documents listed in Annex 4 in the future.

1.2(4) Additional guidance, explanatory, or technical material specified in the Supplementary Information section of the LVV Certification Manual may be used to assist in implementing the Code.

1.3 Development and approval

1.3(1) The LVVTA, through consultation with its member associations, the Agency, and where appropriate interested industry bodies and members of the public, develops the Code, including the LVV Standards, and the LVV Supporting Documents.

1.3(2) The Code, the LVV Standards and the LVV ORS, and any amendments to the Code, the LVV Standards, and the LVV ORS, must be approved by the Member Council of the LVVTA and the Agency before they can come into force.

1.3(3) Approval by the LVVTA and the Agency is indicated by a signature and date placed on page 1 and an initial on the bottom right-hand corner of each subsequent page, of the Code, and of each LVV Standard, and of the LVV ORS, by an authorised representative of the LVVTA and an authorised representative of the Agency.

1.3(4) The Code, and any amendments to the Code, come into force from the application date specified by notice in the New Zealand Gazette.

NOTE: The New Zealand Gazette is issued weekly to publicly notify all additions and changes to Government regulations.

1.3(5) The LVV Forms and Form-sets and LVV Information Sheets are recognised and agreed by the Agency as mandatory documents within the LVV certification system.

1.3(6) The Hobby Car Technical Manual is recognised and agreed by the Agency as a mandatory best-practice LVV Supporting Document in the case where a particular modification or scratch-built feature is outside of the scope of an applicable LVV Standard, or where an LVV Standard is not in force or appropriate for a particular modification or scratch-built feature.

NOTE 1: The LVV Information Sheets and Hobby Car Technical Manual are critical documents in relation to the Land Transport Rule: Vehicle Standards Compliance 2002 and the LVV Code, because these documents provide a means of ensuring compliance with the various General Safety Requirements contained within the Land Transport Compliance Rule and the various Land Transport equipment rules.

NOTE 2: Because the LVV Forms and Form-sets, LVV Information Sheets, and Hobby Car Technical Manual are mandatory LVV Supporting Documents, an LVV Certifier is legally required to follow and apply them. Failure to do so constitutes an offence in the same way as failure to apply the LVV Code, LVV Standards, or LVV ORS would.

1.3(7) LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and the LVV Supporting Documents already incorporated into the Code, or authorised for future incorporation into the Code, are listed in Annexes 1 through 4 of the Code, as applicable.

1.3(8) Any new LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and LVV Supporting Documents, and any amendments to the LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and LVV Supporting Documents, come into force from the application date specified on the title page of each document.

1.3(9) An LVV Standard, LVV Form and Form-set, LVV Information Sheet, or LVV Supporting Document made under a version of the Code shall remain in force until it is amended or revoked, even if the Code under which the document was made is amended.

1.4 Revocation

1.4(1) Where the Agency believes, on reasonable grounds relating to safety, and after reasonable consultation with LVVTA, that any provisions of the Code, or of any LVV Standard, LVV Form and Form-set, LVV Information Sheet, or LVV supporting document, are not appropriate or sufficient, the Agency may, by notice given to the LVVTA, revoke any such provisions, and the revocation shall take effect from such date as the Agency specifies in that notice of revocation.

1.4(2) Where notice is given under 1.4(1) the Agency and/or the LVVTA must take such steps as may be reasonably necessary to advise LVV Certifiers of the revocation, but no notice shall be invalid because of any failure to so advise.

1.5 Master copies of the Code, LVV Standards, and LVV ORS

1.5(1) There are two master copies of the Code, each LVV Standard, and the LVV ORS:

- (a) one of which is held by the LVVTA; and
- (b) one of which is held by the Agency.

1.5(2) Each master copy of the Code, each LVV Standard, and the LVV ORS must consist of a full set of documentation, with each page containing:

- (a) a sequential page number; and
- (b) the date of issue or amendment.

1.5(3) Each version of the Code, LVV Standard, and LVV ORS must incorporate an amendment record document to verify that amendments have been incorporated in the Code, LVV Standard, or ORS as applicable.

Part 2 Implementation of the Code

2.1 When LVV Certification is required

2.1(1) To be operated on the road, a low volume vehicle must be certified for compliance with the Code.

- 2.1(2) A vehicle becomes a low volume vehicle and must be certified for compliance with the Code when the vehicle concerned either:
- (a) has been scratch-built and is being certified for first registration in New Zealand; or
 - (b) has been modified in such a way that continued compliance with one or more applicable safety-related legal requirements prescribed by New Zealand land transport legislation may have been affected, and:
 - (i) is being certified for first registration in New Zealand; or
 - (ii) is in-service.

NOTE 1: Under the original version of *Land Transport Rule: Vehicle Standards Compliance*, LVV certification was required for vehicles being re-registered in New Zealand. This requirement has been removed in *Land Transport Rule: Vehicle Standards Compliance 2002*, so the same requirement was removed from 2.1(2) of (Issue 7 version) of the Code.

NOTE 2: 2.1(2) means that the LVV certification process must be applied in order to determine whether the modification has in fact affected the vehicle's continued compliance.

2.2 Who carries out LVV Certification

- 2.2(1) Certification of a low volume vehicle must only be carried out by an LVV Certifier appointed by NZTA, and who is authorised by the Agency to certify that type of low volume vehicle, based on its class and modification.

NOTE: The LVV Certifier categories for which the Agency may authorise an LVV Certifier for, are contained in sub-section 3.1 of the *LVV ORS*.

2.3 When a vehicle qualifies for LVV certification

- 2.3(1) A scratch-built vehicle must be LVV certified only if there is adequate assurance that the vehicle:
- (a) is safe to be operated on the road; and
 - (b) is designed and constructed using materials and components that are fit for their purpose; and
 - (c) complies with all applicable requirements specified in the LVV Standards, LVV Forms and Form-sets, LVV Information Sheets, and LVV Supporting Documents.

2.3(2) Subject to 2.3(3), a modified vehicle must be LVV certified only if there is adequate assurance that the modifications:

- (a) have not compromised the safe operation of the vehicle; and

- (b) are designed and constructed using materials and components that are fit for the purpose; and
- (c) have not compromised the vehicle's continued compliance with all other applicable safety-related legal requirements prescribed by New Zealand land transport legislation; and
- (d) in the case of a vehicle which has been modified whilst registered, including a scratch-built vehicle, there is adequate assurance that the vehicle as a whole complies with all other applicable safety-related legal requirements prescribed by New Zealand land transport legislation.

2.3(3)

A modified vehicle is not required to be LVV certified, or further certified, in order to be operated on the road, if:

- (a) the modifications could not affect continued compliance with any applicable safety-related legal requirements prescribed by New Zealand land transport legislation of any components or systems within the vehicle when manufactured or previously modified; or
- (b) the modifications are listed within the LVVTA *LVV Modification Threshold Schedule*; or
- (c) the modified vehicle is authorised by an LVV Authority Card, for a specific purpose listed in *Annex 5*, and the owner can present such authorisation that approves each modification that is subject to an applicable safety-related legal requirement prescribed by New Zealand land transport legislation, in the form of a valid LVV Authority Card held in the name of that owner.

NOTE: The LVV Modification Threshold Schedule referred to in 2.3(3)(b), authorised by LVV Information Sheet # 01-2003, can be found on the LVVTA website www.lvvta.org.nz. The content of this schedule can also be found within the Modification Tables contained through the NZTA *In-service Vehicle Inspection Requirements Manual*.

- 2.3(4) A low volume vehicle must be declined LVV certification where there is reason to believe that the vehicle does not comply with the requirements of 2.3(1) or 2.3(2).
- 2.3(5) For a vehicle to qualify for LVV certification the vehicle must first be inspected in accordance with 2.4, 2.5, and 2.6.
- 2.3(6) For an unregistered modified production vehicle to be inspected for LVV certification, it must first, prior to registration, have both its identity verified and its original standards compliance established by an inspecting organisation appointed under 2.2(1)(e) of *Land Transport Rule: Vehicle Standards Compliance 2002*.

2.4 What an inspection for LVV Certification must establish

- 2.4(1) For scratch-built vehicles, except where one or more of 2.5(1), 2.5(2), or 2.5(3) apply, the LVV Certifier must inspect the whole vehicle to establish:

- (a) the quality and suitability of the design, materials, components, and workmanship associated with each aspect of the vehicle's construction; and
- (b) the collective influence of the design, and all of the materials, components, and workmanship used on the fitness for purpose of the vehicle; and
- (c) that the vehicle complies with the general safety requirements for in-service fitness.

2.4(2) For modified production vehicles, except where one or more of 2.5(1) or 2.5(2) or 2.5(3) apply, the LVV Certifier must inspect the whole vehicle to establish:

- (a) the presence of each modification; and
- (b) the quality and suitability of the design, materials, components, and workmanship associated with each modification; and
- (c) the effect of each modification on the vehicle's compliance with all applicable safety-related legal requirements prescribed by New Zealand land transport legislation; and
- (d) the collective influence of all the modifications on the fitness for purpose of the vehicle; and
- (e) where a vehicle has been modified after registration, that the vehicle complies with the general safety requirements for in-service fitness.

2.4(3) An LVV Certifier must provide, for each aspect of every LVV certification inspection, either:

- (a) the appropriate LVV Forms and Form-sets listed in Annex 2 applicable to each scratch-built feature or modification, together with all of the supporting information required by the LVV Forms and Form-sets and 2.5 of the LVV ORS; or
- (b) where there is no appropriate LVV Form or Form-set listed in Annex 2 that is applicable to a scratch-built feature or modification, a written report that provides assurance that the requirements of 2.4(1) or 2.4(2) have been met, together with all supporting information required by 2.5 of the LVV ORS.

2.5 Other requirements for LVV Certification inspection

2.5(1) Where a LVV certification plate is already affixed to a low volume vehicle, the LVV Certifier may apply the requirements of 2.4(1) or 2.4(2) only to those components and systems that have been modified since the previous LVV certification, or which may have been affected by a modification carried out since the previous LVV certification.

2.5(2) Where a vehicle is modified to enable its operation by, or carriage of, people with disabilities, together with or without other persons, the LVV Certifier may apply the requirements of 2.4(1) or 2.4(2) only to those components and systems that are modified for that purpose, provided that:

- (a) no modifications that affect compliance with applicable requirements are present for purposes other than to enable vehicle operation by, or carriage of, people with disabilities, together with or without other persons; or
- (b) the LVV Certifier responsible for the LVV certification of the vehicle provides evidence from another LVV Certifier that the modifications that exist for other purposes comply with 2.4(1) or 2.4(2).

2.5(3) The LVV Certifier, instead of inspecting the whole vehicle, may exclude the general safety requirements inspection for in-service fitness of 2.4(1)(c) and 2.4(2)(e) if:

- (a) the vehicle is not an unregistered scratch-built vehicle; and
- (b) another Authorised Vehicle Inspector has completed a warrant of fitness or certificate of fitness check-sheet no more than fourteen days prior to the current inspection; and
- (c) the LVV Certifier has no reason to believe that any item which the other Certifier has shown as passed on the check-sheet has been:
 - (i) modified, or further modified, so that a component or system covered by an applicable requirement is directly or indirectly affected; or
 - (ii) subject to repair since the date of completion of the check sheet.

2.6 Road test requirement for inspections

2.6(1) All inspections must incorporate the road testing requirements, if applicable, specified within *Section 4* of the LVV ORS.

2.7 Statement of compliance

2.7(1) Where, following an inspection, a LVV Certifier has determined that a low volume vehicle is in compliance, the LVV Certifier must prepare and sign the F001 Statement of Compliance Certificate listed in Annex 2 confirming the vehicle's compliance with the Code, which shall, for the purposes of compliance with 7.6 of the Land Transport Rule: Vehicle Standards Compliance 2002, be the record of determination.

2.7(2) For modified production low volume vehicles, and all scratch-built low volume vehicles further modified after initial LVV certification, the record of determination together with copies of the LVV Forms and Form-sets and other evidential documents, must satisfactorily identify and record:

- (a) all modifications that have been carried out on the vehicle; and
 - (b) the systems or components within the vehicle that may have been affected by the modifications; and
 - (c) which LVV Standards, or other standards or requirements that each modification complies with; and
 - (d) how compliance with those LVV Standards, or other standards or requirements, has been assessed.
- 2.7(3) For a scratch-built low volume vehicle, prior to registration for the first time, the record of determination together with copies of the LVV Forms and Form-sets and other evidential documents, must satisfactorily identify and record:
- (a) the components and systems that the vehicle is comprised of; and
 - (b) which LVV Standards, or other standards or requirements that each component and system complies with; and
 - (c) how compliance with those LVV Standards, or other standards or requirements, has been assessed.
- 2.7(4) The documents required by 2.7(2) or 2.7(3) must be filled out in accordance with the requirements specified in *Section 2* of the *LVV ORS*.
- 2.7(5) The documents required by 2.7(2) or 2.7(3) must be forwarded to LVVTA for processing prior to the issuing of the LVV certification plate.

2.8 Action where a vehicle is not a low volume vehicle

- 2.8(1) Where an LVV Certifier has determined, in accordance with 2.3(2), that a modification has not affected compliance with an applicable requirement, and the vehicle therefore does not require LVV certification or re-certification, the LVV Certifier may provide the vehicle owner with written notification of this, in a manner prescribed by LVVTA, which must describe the modifications present on the vehicle, and clearly record the reasons for such determination.

NOTE: The intended purpose of such written notification is to confirm to an In-service or Entry Certifier that, despite the presence of modifications, the vehicle does not require LVV certification.

2.9 The LVV certification plate

- 2.9(1) Following receipt of an *F001 Statement of Compliance Certificate* and other necessary records in accordance with 2.7(4), the LVVTA must, subject to 2.9(2), and in accordance with *sub-section 5.2 of the LVV ORS*, produce an LVV certification plate, and issue it to the LVV Certifier who carried out the LVV certification.

2.9(2) Despite 2.9(1), the LVVTA must not produce or issue **an** LVV certification plate if the LVVTA has reason to believe that the vehicle has not been inspected in accordance with 2.4, 2.5, and 2.6.

2.9(3) **An** LVV certification plate produced and issued under 2.9(1) must, **as best as can be practicably achieved taking into consideration the space constraints of the LVV certification plate, provide an accurate description of the vehicle's modifications, components, and systems.**

2.10 Affixing the LVV Certification Plate

2.10(1) On receipt of the LVV certification plate assigned to the **low volume** vehicle, the LVV Certifier must affix it to that vehicle, unless:

- (a) there is reason to believe that the vehicle has been further modified, in a way that affects its compliance with **one or more safety-related legal requirements prescribed by New Zealand land transport legislation**, since the inspection conducted for the purpose of that certification; or
- (b) there is reason to believe that the vehicle has been **accident-damaged** so that it no longer meets the general safety requirements for in-service fitness.

2.10(2) **An** LVV Certifier may delegate his authority to affix **an** LVV certification plate to a vehicle in accordance with the requirements specified within *Section 4* of the *LVV ORS*.

2.10(3) An LVV certification plate must be affixed to, **and removed from,** a low volume vehicle in accordance with the requirements specified within *Section 4* of the *LVV ORS*.

2.10(4) Where **a low volume vehicle** is modified after initial LVV certification in a way that compliance with **one or more safety-related legal requirements prescribed by New Zealand land transport legislation** may be affected:

- (a) **the vehicle must undergo a new LVV certification in accordance with the requirements of the Code; and**
- (b) **the previous LVV certification plate must be removed and disposed of in accordance of Section 4 of the LVV ORS.**

2.11 Repairs

2.11(1) Any repairs carried out to a **modified or scratch-built** motor vehicle or its systems or components must, in accordance with *Land Transport Rule: Vehicle Repair 1998*, restore the damaged or worn vehicle, system or component so that it is within safe tolerance of the state of the vehicle, system or component when **modified or built.**

2.12 LVV Authority Cards

2.12(1) The addition, removal or modification of a component or series of safety-related components or systems may be authorised by an LVV Authority Card provided:

- (a) the specific purpose is authorised by the Agency and listed in Annex 5; and
- (b) the vehicle modified for that purpose is clearly identified by the Authority Card; and
- (c) all changes to safety-related systems authorised by the Authority Card are clearly identified; and
- (d) the Authority Card identifies the individual person requiring use of the vehicle for the specific purpose; and
- (e) the Authority Card is authorised by a LVV Certifier appointed by the Agency for one of the specific purposes shown in Annex 5; and
- (f) the Authority Card is valid for a period from the date of issue of not more than that period shown in Annex 5; and
- (g) the Authority Card conforms with LVVTA's specifications covering the design, construction, and layout of the Authority Card.

2.13 Exemptions

2.13(1) The Agency may grant an exemption from any specified requirement of the Code in accordance with section 166 of the Land Transport Act 1998.

2.14 General provisions

2.14(1) A reference to an enactment, regulation or rule is a reference to that enactment, regulation or rule as amended, or to any enactment, regulation or rule that has been substituted for that enactment, regulation or rule.

2.14(2) The singular includes the plural and vice versa and words imparting any gender include any other genders.

2.14(3) Where reference is made in the Code to the Agency, that reference shall include any duly authorised employee or representative of the Agency.

2.14(4) Where any term or word(s) which is defined in any Act or Rule is used in the Code, whether or not as a defined term, that term or word(s), shall, unless the context or Code definition otherwise requires, have the meaning ascribed to it in the applicable Act or Rule.

2.15 Certification fees and royalties

- 2.15(1) The LVV Certifier, when forwarding the documents required by 2.7(2) or 2.7(3) to LVVTA, must make payment to LVVTA, which shall include all monies required by NZTA as their crown regulatory fee, and LVVTA as royalties for the use of the Code and its associated LVV Standards and prescribed systems, as specified in *sub-section 5.2 of the LVV ORS*.

Annex 1: LVV Standards incorporated into LVV Code

LVV Std #:	LVV Standard title:	Implementation date:
100-30(00)	External Projections	03 April 2000
184-40(00)	Head Restraints	03 April 2000
200-30(00)	Rear View Mirrors	03 April 2000
035-00(00)	Braking Systems	01 December 2000
195-00(00)	Suspension Systems	01 December 2000
155-30(00)	Frontal Impact	01 June 2002
155-40(00)	Interior Impact	01 June 2002
85-40(00)	Engine and Drive-train Conversions	01 September 2002
155-20(01)	Door Retention Systems (1st amendment)	01 September 2002
205-00(00)	Wheels and Tyres	01 September 2003
175-00(01)	Seatbelt Anchorages (1st amendment)	01 October 2003
190-70(01)	Right Hand Drive Steering Conversions (1st amendment)	01 September 2004
125-00(00)	Lighting Equipment	01 March 2005
45-30(03)	Disability Adaptive Control Systems (3rd amendment)	01 May 2010
185-00(01)	Seats and Seat Anchorages (1st amendment)	02 April 2006
90-20(02)	Exhaust Noise Emissions (2 nd amendment)	01 June 2008
90-10(00)	Exhaust Gas Emissions	01 July 2008
45-80(00)	Disability Transportation Systems	To be developed
75-00(00)	Electric Vehicles	To be developed
190-20(00)	Steering Column Impact	To be developed
110-00(00)	Glazing and Vision	To be developed
155-60(00)	Side Impact	To be developed
105-10(00)	Fuel System Integrity	To be developed
160-00(00)	Auxiliary Equipment	To be developed
145-00(00)	Motorcycles	To be developed
198-00(00)	Motorcycle-controlled Trikes	To be developed
NOTE: Column shading in this table in Annex 1 indicates LVV Standards that are not completed at the time of this Code amendment, but will be authorised for future incorporation into the Code in accordance with 1.3.		

Annex 2: LVV Forms & Form-sets incorporated into LVV Code

Form/set #:	LVV Form/set title:	Issue date:	Issue #:
F000-MN	LVV Certification Plate Order Form [M and NA class]	Jan 2010	7
F001-MN	LVV Statement of Compliance Certificate	July 2008	6
F002-MN	LVV Compliance Plate Data Form [modified class M and N]	April 2005	4
F003-MN	LVV Safety Item Form [registered vehicles]	April 2005	3
F004-MN	LVV Rectification Form	Nov 2005	5
F005-MN	LVV Plate Attachment Delegation Form	Aug 2009	6
F000-L	LVV Certification Plate Order Form [L class]	Jan2010	4
F001-L	LVV Statement of Compliance Certificate	April 2005	5
F002-L	LVV Compliance Plate Data Form [L class]	April 2005	1
F003-L	LVV Safety Item Form [L class]	April 2005	3
F004-L	LVV Rectification Form	Nov 2005	5
F005-L	LVV Plate Attachment Delegation Form	July 2007	4
F006	LVV Certification Plate Pre-order Form	Aug 2009	1
F007	LVV Category Extension Request Form	Jan 2010	1
F008	LVV Non-destructive Test Request Form	April 2010	1
FS007	Form-set – RHD Steering Conversions	Sep 2004	2
FS008	Form-set – Braking System Modifications	Dec 2000	1
FS009	Form-set – Brake Performance Test	Dec 2000	1
FS010	Form-set – Engine and Drive-train Conversions	Sept 2005	3
FS011	Form-set – Modified Suspension Systems	Mar 2005	2
FS012	Form-set – Upper Seatbelt Anchorage Request Form	June 2006	2
FS013	Request for the Disabling / Removal of Airbag	Nov 2004	2
FS014	Supplementary Form-set for Modified Vehicles	Nov 2000	1
FS015	Form-set – Trikes with Motorcycle Controls	April 2005	2
FS016	Form-set – Seatbelt Anchorage Retro-fitting	Sept 2003	2

FS021	Form-set – Interior Impact	Sept 2005	3
FS022	Form-set – Door Retention Systems	Sept 2002	1
FS023	Form-set – Wheels & Tyres	June 2006	4
FS027	Form-set – Frontal Impact	June 2002	1
FS028	Form-set – Terrano Rear Anchorages	Sep 2004	2
FS029	Form-set – Disability Adaptive Control Systems	April 2010	5
FS030	Form-set - Seats and Seat Anchorages	April 2006	2
FS031	Form-set - Security Vehicles	Jan 2005	1
FS032	Form-set - Mistral Rear Floor Modification Procedure	Jan 2005	1
FS033	Form-set - External Projections	Jan 2005	1
FS034	Form-set - Rear View Mirrors	Jan 2005	1
FS035	Form-set - Head Restraints	Jan 2005	1
FS036	Form-set - Lighting Equipment	Mar 2005	1
FS037	Form-set – Exhaust Noise Emissions	Mar 2009	5
FS038	Form-set – Exhaust Gas Emissions	July 2008	1
FS039	Form-set – Bump-steer Swing-check Inspection	Dec 2010	1
# not allocated	Form-set – Disability Transportation Systems	2011	1
# not allocated	Form-set – Electric Vehicles	2011	1
# not allocated	Form-set – Steering Column Impact	2012	1
# not allocated	Form-set – Glazing and Vision	2012	1
# not allocated	Form-set – Side Impact	2012	1
# not allocated	Form-set – Fuel System Integrity	2013	1
# not allocated	Form-set – Auxiliary Equipment	2013	1
# not allocated	Form-set – Motorcycles	2013	1

NOTE: Column shading in this table in Annex 2 indicates LVV Forms & Form-sets that are not completed at the time of this Code amendment, but will be authorised for future incorporation into the Code in accordance with 1.3.

Annex 3: LVV Information Sheets incorporated into LVV Code

Info #:	LVV Form/set title:	Issue date:	Issue #:
02-99	Issue of Form-set FS004 – Trikes with motorcycle controls	Nov 1999	1
05-99	Frame and mounting strength for additional seats	Dec 1999	1
01-2000	Issue of LVV Standards; External Projections, Door Retention Systems and Rear Vision Mirrors	Mar 2000	1
02-2000	Interior and Frontal Impact – Interim Guidelines for the Certification of Roll Bar & Cage Installations	Mar 2000	1
03-2000	LVVTA Document Issue	Mar 2000	1
05-2000	Issue of LVV Standard for Right Hand Drive Conversions	July 2000	1
09-2000	Dealing with VIN and Chassis identifier discrepancies	Nov 2000	1
10-2000	Issue of Standards for Braking Systems and Suspensions, also related survey process sheets	Nov 2000	1
12-2000	LVV Certification of vehicles with additional seating positions	Dec 2000	1
01-2001	Introduction of revised LVV Code	Mar 2001	1
02-2001	Fitting of a LVV Certification Plate by another certifier	April 2001	1
03-2001	Completion of FS001 & FS002 Form-set documents	April 2001	1
04-2001	Changing Frontal Impact Occupant Protection Systems	May 2001	1
01-2002	LVV certification of unregistered vehicles	May 2002	1
02-2002	LVV Seatbelt Anchorage Standard release	May 2002	1
03-2002	LVV Frontal Impact & Interior Impact Standard release	June 2002	1
04-2002	LVV Code Issue 3 release	June 2002	1
06-2002	LVV Engine & Drive-train Conversion Standard & Survey Sheet	Aug 2002	1
07-2002	Amended Door Retention System Standard & Survey Sheet	Aug 2002	1
01-2003	Release of new LVVTA Forms and Schedules	June 2003	1
02-2003	Release of New & Amended LVV Standards Form-sets and Schedules	Sept 2003	1
01-2004	Release of New & Amended LVVTA Forms and Schedules	April 2004	1

03-2004	Nissan Terrano Rear Seatbelt Anchorage/Floor Rust Procedure	Sep 2004	2
04-2004	Removal of Dual Controls from Driving School Vehicles	Sep 2004	1
05-2004	Upper Suspension Ball-joints in early Ford Falcons and Fairlanes	Sep 2004	1
06-2004	Release of New & Amended LVV Information Sheets	Sep 2004	1
07-2004	Re-issue of FS005 - Airbag Removal/Disabling	Sep 2004	1
08-2004	Release of New & Amended LVV Standards and Form-sets	Sep 2004	1
01-2005	LVV Certification of Security Vehicles	Jan 2005	1
02-2005	Nissan Mistral's Rear Seatbelt Anchorage/Floor Rust Procedure	Jan 2005	1
04-2005	LVV Certification of Weed-spraying Vehicles	Jan 2005	1
05-2005	LVV Certification of Roof-racks on PSVs	Jan 2005	1
06-2005	Release of New & Amended LVV Form-sets	Jan 2005	1
07-2005	Release of New & Amended LVV Form-sets	Mar 2005	1
08-2005	Rear-seat Removal and Changing Vehicle Class to NA	Sep 2005	1
09-2005	Release of New & Amended LVV Standards and Form-sets	Sep 2005	1
10-2005	LVV Certification Operations Roles & Responsibilities	Nov 2005	1
11-2005	Rear Shelf Speaker Aperture Modification	Nov 2005	1
01-2006	Upper Seatbelt Anchorage Request Form	April 2006	1
02-2006	Track-mounted Seat Attachment Systems	June 2006	1
03-2006	Seats and Seatbelts in Motor-homes	June 2006	1
04-2006	Release of Exhaust Noise Emissions Standard	July 2006	1
05-2006	Exhaust Noise Emissions – Recent Developments	Aug 2006	1
01-2007	Release of Low Volume Vehicle Code – Issue 5	Feb 2007	1
02-2007	Power Steering Torsion Bar Modification	April 2007	1
03-2007	Stretched Limousines That Exceed the Manufacturer's Axle Ratings	April 2007	1
04-2007	Stainless-steel Braided Brake Hoses	April 2007	1
05-2007	Release of Amended (Exhaust Noise Emissions) LVV Standard & Form-set	April 2007	1

06-2007	Delegation of LVV Certification Plate Attachment by LVV Certifier to a Nominated Person	July 2007	1
07-2007	Form-set Use for Scratch-built and Extensively Modified Vehicles	July 2007	1
08-2007	Re-issue of LVV Code, LVV Operating Requirements Schedule, and other Forms	July 2007	1
01-2008	Introduction of 'Sub-categories' for Scratch-built Low Volume Vehicles	April 2008	1
02-2008	Changes to LVV Operating Requirements Schedule (5 th Amendment)	April 2008	1
03-2008	Introduction of LVV Standard 90-10(00) (Exhaust Gas Emissions)	April 2008	1
04-2008	Amendment to LVV Standard 90-20(01) (Exhaust Noise Emissions)	April 2008	1
05-2008	Air Cylinder Suspension Systems	July 2008	1
06-2008	Three-wheeled vehicles (Trikes)	July 2008	1
07-2008	Exhaust Gas Emission Analyser Use	July 2008	1
08-2008	I-beam Axles and Split Radius Rods	Oct 2008	1
09-2008	Stretchers and Restraints on PSVs	Oct 2008	1
01-2009	Tyre Size to Wheel Size Compatibility Guide	Feb 2009	1
02-2009	Adjustable Spring & Hub-carrier Suspension Systems	Feb 2009	1
03-2009	Towing A-frames	Feb 2009	1
04-2009	Steering Universal Joint Phasing	Feb 2009	2
05-2009	Class-change Situation for MC Vehicles	Feb 2009	1
06-2009	Converting 4-wheel Drive Vehicles to 2-wheel Drive	Feb 2009	1
07-2009	Removal of Side Airbag-equipped Seats	Feb 2009	1
08-2009	Material Composition of Modern Vehicle Structure	Aug 2009	1
09-2009	Steering Modification on Airbag-equipped Motorcycles	Aug 2009	1
10-2009	F006 LVV Certification Plate Pre-order Form Introduction	Aug 2009	1
01-2010	Introduction to LVV Operating Requirements Schedule (6 th Amendment)	Feb 2010	1
02-2010	Introduction to Revised and New F000 and F007 Forms	Feb 2010	1
03-2010	Table-A Vehicle Classes	April 2010	1
04-2010	Bump-steer Measurement Background Information	Dec 2010	1

05-2010	Bump-steer Swing-check Procedure	Nov 2010	1
# not allocated	Front Bumper Modifications	2011	1
# not allocated	Custom-built A-arm IFS	2011	1
# not allocated	Custom-built A-arm IFS	2011	1
# not allocated	Jaguar Independent Rear Suspension	2011	1
# not allocated	Repair vs modification	2011	1
# not allocated	Raised Vehicles	2011	1
# not allocated	Items that Require NDT	2011	1
# not allocated	Compliance Options Under the LVV Code	2011	1
# not allocated	Seam Reinforcement	2012	1
# not allocated	Motor-home body modifications	2012	1
# not allocated	Burst-proof Door Latching Systems	2012	1
# not allocated	Effects on Scrub-line from dropped Spindles	2012	1
# not allocated	VIN De-coding	2012	1

NOTE: Column shading in this table in Annex 3 indicates LVV Information Sheets that are not completed at the time of this Code amendment, but are authorised for future incorporation into the Code in accordance with 1.3.

Annex 4:

LVV Supporting Documents incorporated into LVV Code

Doc #:	LVV Form/set title:	Issue date:	Issue #:
ORS8	LVV Operating Requirements Schedule (1 April 2011)	March 2011	8
HCTM V2	New Zealand Hobby Car Technical Manual	Nov 2010	2

Annex 5: Specific purposes covered by an LVV Authority Card

Card #:	Authority Card Purpose:	Issue date:
ACSP 01	Compliance with the Appendix Two, Vehicle Safety Requirements for competitions under the National Sporting Code of MotorSport New Zealand Inc, covering only those components and systems that do not comply with applicable requirements for general use on the road, and valid for a maximum period of 12 months only.	1 May 2002
ACSP 02	Compliance with Chapter 3, LVV Authority Card, under the New Zealand Hobby Car Technical Manual, covering only those components and systems that do not comply with applicable requirements for general use on the road, and valid for a maximum period of 12 months only.	01 Oct 2006

Terms and definitions

Applicable requirements	has the meaning ascribed to “applicable requirements” in <i>Land Transport Rule: Vehicle Standards Compliance 2002</i> .
Application date	means the date on which a Rule, LVV Standard, LVV Information Sheet, LVV Form or Form-set, or LVV Supporting Document begins to apply.
Certify	means (as defined in the <i>Land Transport Rule: Vehicle Standards Compliance 2002</i>) in relation to a motor vehicle, to verify that the vehicle complies with safety-related legal requirements prescribed by New Zealand land transport legislation; and ‘certified’ and ‘certification’ have similar meanings.
Class	has the meaning ascribed to the term "Class" in the <i>Land Transport Rule: Vehicle Standards Compliance 2002</i> .
Compliance	means a condition where evidence exists that a motor vehicle complies with the Code, LVV Standards, LVV Information Sheet, LVV Form or Form-set, or LVV Supporting Document.
Fitness for purpose	when applied to a low volume vehicle, means the low volume vehicle is modified or constructed so that the vehicle, its structure, safety related systems, components and equipment will carry out their functions safely, having regard to any increased duty that the modifications or construction may place on them.
Gross vehicle mass	means (as defined in the <i>Land Transport Rule: Vehicle Standards Compliance 2002</i>) either: <ol style="list-style-type: none">(a) the maximum permitted mass of the vehicle, which includes the mass of the accessories, the crew, the passengers and the load, and is, unless (b) applies, the gross vehicle mass specified by the manufacturer of that vehicle; or

- (b) if a person approved for the purpose by the Agency determines that the gross vehicle mass should differ from that specified by the manufacturer, taking into account evidence on the capability of the systems and components of the vehicle, or the effects of any modification, that mass determined by that person.

In-service fitness

means in a safe condition equivalent to that required for the issue of a Warrant of Fitness or Certificate of Fitness, with the exception of the completion of LVV certification.

Inspection

means the vehicle inspection process prescribed by the Code, Section 2.4, 2.5 and 2.6, carried out by a LVV Certifier as a requirement for the certification of a low volume vehicle.

Inspecting organisation

means a person or organisation appointed by the Agency under 2.2(1) of the *Land Transport Rule: Vehicle Standards Compliance 2002* who is responsible for inspection and certification outcomes. An LVV Certifier is deemed by the Rule to be an inspecting organisation.

LVV (low volume vehicle)

means (as defined in the *Land Transport Rule: Vehicle Standards Compliance 2002*) a motor vehicle of a class specified in Table A of the Vehicle Standards Rules, other than Class LA, LB, MD3, MD4, ME, NB, NC, TC or TD that is:

- (a) manufactured, assembled or scratch-built in quantities of 200 or less at any one location in any one year, by a manufacturer whose total production of motor vehicles does not exceed 200 units over the same period, and where the construction of the vehicle directly or indirectly affects compliance of the vehicle with any of the vehicle standards prescribed by New Zealand law; or
- (b) modified uniquely, or in quantities of 200 or less at any one location in any one year, in such a way as to affect the compliance of the vehicle, or of any system or component, with a legal requirement relating to safety performance applicable at the time of the modification.

LVV Authority Card

means a certification document, issued under the delegated authority of the Agency, specifying alternative safety related equipment required by a vehicle for special purposes defined in Annex 5.

LVV Certification Plate	means a plate that is to be permanently affixed to a vehicle that, in a form approved by the LVVTA and the Agency , is engraved with data positively identifying the vehicle and the degree of modification applied to it within its compliance with the Code.
LVV Certifier	means a person who is appointed under the provisions of Land Transport Rule: Vehicle Standards Compliance 2002 to carry out the certification of low volume vehicles as specified by <i>Part 2</i> of the Code.
LVV Code (the Code)	means this Code.
LVV Form or Form-set	means one or more of a series of documents listed in <i>Annex 2</i> of the Code, issued by the LVVTA for the purpose of specifying inspection items required for LVV certification.
LVV Standard	means a standard written specifically for low volume vehicles under the Code and listed in Annex 1 .
LVV Supporting Documents	means those mandated documents listed in Annex of the Code .
LVVTA	means the Low Volume Vehicle Technical Association Incorporated.
LVVTA Certification Manual	means the Manual issued by the LVVTA and includes any amendments made to the Manual from time to time by LVVTA.
LVVTA Information Sheets	means Information Sheets issued by the LVVTA and includes any amendments made to the Information Sheets from time to time by LVVTA.
Modify	in relation to a motor vehicle, means (as defined in the Land Transport Rule: Vehicle Standards Compliance 2002) to change the vehicle from its original state by altering, substituting, adding or removing any structure, system, component or equipment, but does not include repair; and 'modified' and 'modification' have corresponding meanings.
Modified production vehicle	means that which is defined under (b) of Low Volume Vehicle.

Motor vehicle	<p>means (as defined in the <i>Land Transport Rule: Vehicle Standards Compliance 2002</i>) a vehicle drawn or propelled by mechanical power; and includes a trailer, but does not include:</p> <ul style="list-style-type: none">(a) a vehicle running on rails;(b) a mobility device;(c) a trailer (other than a trailer designed solely for the carriage of goods) that is designed and used exclusively as part of the armament of the New Zealand Defence Force;(d) a trailer running on one wheel and designed exclusively as a speed measuring device or for testing the wear of vehicle tyres;(e) a vehicle designed for amusement purposes and used exclusively within a place of recreation, amusement, or entertainment to which the public does not have access with motor vehicles;(f) a pedestrian-controlled machine.
New Zealand Hobby Car Technical Manual	<p>is a best-practice build-document used by New Zealand modifiers and constructors, and by LVV Certifiers as an inspection document, for extensively modified and scratch-built low volume vehicles, applicable where a particular modification or scratch-built feature is outside of the scope of an applicable LVV Standard, or where an LVV Standard is not in force or appropriate for a particular modification or scratch-built feature.</p>
Production Vehicle	<p>means a motor vehicle that is produced in quantities of more than 200 at any one location in any one year.</p>
Registered	<p>means, in relation to a motor vehicle, registered under the <i>Transport (Vehicle and Driver Registration and Licensing) Act 1986</i>, or <i>Part 17</i> of the <i>Land Transport Act 1998</i>.</p>
Repair	<p>means (as defined in the <i>Land Transport Rule: Vehicle Standards Compliance 2002</i>) to restore a damaged or worn vehicle, its structure, systems, components or equipment; and includes the replacement of damaged or worn structures, systems, components or equipment with equivalent undamaged or new structures, systems, components or equipment.</p>

- Rule** means a Rule made under the *Land Transport Act 1998*.
- Safe tolerance** means (as defined in the *Land Transport Rule: Vehicle Standards Compliance 2002*) the tolerance within which the safe performance of the vehicle, its structure, systems, components or equipment are not compromised, having regard to any manufacturer's operating limits.
- Scratch-built vehicle** means (as defined in the *Land Transport Rule: Vehicle Standards Compliance 2002*) a motor vehicle that is either:
- (a) assembled from previously unrelated components and construction materials which have not been predominantly sourced from donors of a single make or model and which, in its completed form, never previously existed as a mass produced vehicle, though the external appearance may resemble or replicate an existing vehicle; or
 - (b) a modified production vehicle which contains less than the following componentry from a mass-produced vehicle of a single make and model:
 - (i) 40% of the chassis rails and 50% of the crossmembers, or alternately 40% of a spaceframe, or 40% of the floorpan of a unitary constructed body, whichever is appropriate, and
 - (ii) for light vehicles, 40% or more of the bodywork (based on surface area of body panels but does not include the floorpan, internal bracing, sub panels, bulkheads or firewall).
- Statement of Compliance** means, in relation to a low volume vehicle, a document that summarises the evidence confirming that a low volume vehicle complies with this Code, the LVV Standards, LVV Information Sheets, and LVV Supporting Documents duly authenticated by the LVV Certifier and the LVVTA.
- The Agency** means the New Zealand Transport Agency.

Low Volume Vehicle Technical Association Inc members:

- Component Car Manufacturers Association of New Zealand Inc.
- Constructors Car Club Inc.
- Kiwi Trikers Social Club Inc.
- MotorSport New Zealand Inc.
- New Zealand Four Wheel Drive Association Inc.
- New Zealand Hot Rod Association Inc.
- New Zealand Motor Caravan Association Inc.
- Sports Car Club of New Zealand Inc.
- The Vintage Car Club of New Zealand Inc.
- Vehicle Association of New Zealand for People with Disabilities Inc.

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