

Queensland Code of Practice: Vehicle Modifications (QCOP)

Code LX1: Modification to Light Vehicles to TMR Individual Approval

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CODE LX1

Modification of Light Vehicles to TMR Individual Approval

1.0 Scope

The LX1 modification code allows an Approved Persons to certify modifications in accordance with an administrative approval (initial approval letter) issued by the Department of Transport and Main Roads (TMR). Modifications which require certification under the LX1 code often fall outside the scope of other established codes within the *Vehicle Standards Bulletin 14 – National Code of Practice for the Construction and Modification of Light Vehicles* (NCOP) or the *Queensland Code of Practice – Vehicle Modifications* (QCOP).

The administrative approval issued by TMR contains details of the modification proposed by the applicant along with the conditions of certification under Code LX1. These conditions may include a list of modification codes the Approved Person must be accredited with before certifying the modification under Code LX1.

1.1 Certifications permitted under Code LX1

Light vehicle modifications of the following types may be certified under Code LX1:

- Modifications which have received an administrative approval issued by TMR;
- Modifications that comply with the conditions contained in the administrative approval.

1.2 Certifications not permitted under Code LX1

Light vehicle modifications of the following types must not be certified under Code LX1:

- A modification for which an administrative approval has not been issued by TMR;
- A modification which has received an administrative approval by TMR but does not comply with one or more of the conditions contained in that administrative approval;
- If the Approved Person certifying the modification under Code LX1 does not hold current accreditation to modification codes specified in the TMR administrative approval;
- A modification to a vehicle that is not a vehicle listed in TMR's administrative approval.

Note: Approved Persons must not certify a modification under Code LX1 if they consider that they do not have the skills and competence needed to certify the modification, even though they may have current accreditation to all the codes contained in the administrative approval.

2.0 General Requirements

As the types of modifications which can be certified under the LX1 code can range widely, it is important that the LX1 code is read and applied in conjunction with all other relevant modification

codes in the Approved Codes of Practice. For example, if the modification involves engine modification among other things, the relevant code LA must also be complied with, unless the administrative approval issued by TMR provides exemption from specific requirements in LA code.

2.1 Compliance with applicable vehicle standards

Modified vehicles must continue to comply with the ADRs to which they were originally constructed, except as allowed for in the *Transport Operations (Road Use Management—Vehicle Standards and Safety) Regulation 2021*. These modified vehicles must also comply with the applicable in-service requirements of the regulation.

Modified pre-ADR vehicles must continue to comply with the *Transport Operations (Road Use Management—Vehicle Standards and Safety) Regulation 2021*.

As modifications to be certified under the LX1 code can range widely it is not possible to list ADRs typically affected. It is the responsibility of the certifying Approved Person to ensure that the vehicle continues to comply with the affected ADRs.

To determine the ADRs that apply to the vehicle in question, refer to the Applicability Tables in Section LO of NCOP. Vehicles manufactured from 1 January 1969 but prior to 1 July 1988 need to comply with the Second Edition ADRs. Vehicles manufactured from 1 July 1988 need to comply with the Third Edition ADRs. Section LO of NCOP has separate applicability tables for each edition.

The ADR applicability is according to the vehicle's category and date of manufacture. It is the responsibility of the certifying AP to verify compliance to the applicable ADRs. The certification must include the vehicle date of manufacture in addition to the date of modification.

2.2 Fabrication

All work must be performed in accordance with recognised engineering standards. Cutting, heating, welding or bending of components should be avoided by choosing unmodified production components wherever possible.

2.3 Welding, Fasteners and Electroplating

Mandatory requirements and guidance on the above items are contained in Section LZ Appendices of NCOP:

- For the use of fasteners refer to Appendix A *Fasteners*;
- For welding techniques and procedures refer to Appendix C *Heating and Welding of Steering Components*; and
- For electroplating refer to Appendix D *Electroplating*.

2.4 Mating Parts

Standard features such as splines, tapers and keyways must conform to published standards and their mating parts must conform to matching standards.

Checklist LX1

Code LX1: Modification to TMR Individual Approval

Form No: LX1

Provide an answer to each of the following (Y=Yes, N=No)

Modification Certificate Number:		
1	TMR Administrative Approval	
1.1	Has a TMR administrative approval been issued for the modification?	<input type="checkbox"/> Y <input type="checkbox"/> N
1.2	Has the TMR administrative approval number been included in the certification details table below?	<input type="checkbox"/> Y <input type="checkbox"/> N
2	Identification	
2.1	Does the chassis or Vehicle Identification Number of the vehicle being modified match the TMR administrative approval?	<input type="checkbox"/> Y <input type="checkbox"/> N
3	Modification	
3.1	Does the modification meet the requirements of the TMR administrative approval including any technical reports?	<input type="checkbox"/> Y <input type="checkbox"/> N
3.2	Is the modification of the type described in the TMR administrative approval?	<input type="checkbox"/> Y <input type="checkbox"/> N
4	Qualifications	
4.1	Do you hold current accreditation to all the modification codes listed in the TMR administrative approval?	<input type="checkbox"/> Y <input type="checkbox"/> N
4.2	Do you consider yourself confident and competent to certify the modifications in the administrative approval?	<input type="checkbox"/> Y <input type="checkbox"/> N
5	Testing	
6.1	Has all relevant testing been performed on the modified vehicle?	<input type="checkbox"/> Y <input type="checkbox"/> N
6.2	Is auditable evidence of the tests and results held by the certifying person?	<input type="checkbox"/> Y <input type="checkbox"/> N

Note: If the answer to any question is **N (No)** the design cannot be certified under Code LX1.

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CERTIFICATION DETAILS																	
Make						Model						Year of Manufacture					
VIN																	
Chassis Number (If applicable)																	
Brief Description of Modification/s																	
Vehicle Modified By																	
TMR In-Principle Approval Number																	
Vehicle Certified By (<i>Print</i>)																	
Signatory's Employer (If applicable)																	
Signatory's Signature												Date		_____			