

LPG/LNG/CNG conversions and repairs

This Vehicle Standards Information sheet outlines the requirements when converting a vehicle to operate on gas, and when repairs are required to a vehicle with a gas conversion.

This information sheet applies to vehicles 4.5 tonne GVM or less. For heavy vehicle requirements please refer to the National Heavy Vehicle Regulator website at nhvr.gov.au.

Introduction

Regulation 35 of the Road Safety (Vehicles) Regulations 2021 requires all modifications to a vehicle to either have specific approval from the Secretary of the Department of Transport and Planning or to be carried out in accordance with guidelines published by the Secretary.

Conversion of an existing motor vehicle to operate on Liquefied Petroleum Gas (LPG), Liquefied Natural Gas (LNG) or Compressed Natural Gas (CNG) is a modification.

This document is a published guideline for the purposes of Regulation 35.

Any LPG, LNG or CNG conversion or repair carried out in accordance with this document is an approved modification.

Requirements

- All LPG installations or repairs must comply with the technical requirements of the version of Australian Standard AS/NZS 1425 current at the time of conversion and be fitted with an acceptable LPG Compliance Plate if converted to operate on LPG on or after 1 February 1993.

- All CNG installations or repairs must comply with the technical requirements of Australian Standard AS/NZS 2739 current at the time of conversion and be fitted with an acceptable NG Compliance Plate if converted to operate on CNG on or after 1 August 2000.
- All LNG installations or repairs must comply with the technical requirements of the version of Australian Standard AS/NZS 2739 current at the time of conversion and be fitted with an acceptable NG compliance plate if converted to operate on LNG on or after 16 March 2009.
- The structural integrity of the vehicle and its continued compliance with the Standards for Registration must not be adversely affected (see Note).
- The registered operator must notify a VicRoads Customer Service Centre of the change in fuel type using the LPG/LNG/CNG Conversion Report provided overleaf.
- All LPG, LNG and CNG installations and repairs must be carried out by a qualified LPG/LNG/CNG gas installer in a workshop complying with the technical requirements of the current version of Australian Standard AS 2746 Working Areas for Gas-Fuelled Vehicles. (A Department of Transport and Planning approved

provider complies with these requirements).

A vehicle that has undergone approved conversion to LPG requires the LPG container to be re-certified every 10 years from the date of original certification.

A vehicle that has undergone approved conversion to CNG requires the following:

- Re-certification of all-steel cylinders conducted every five (5) years
- Re-certification of fibreglass reinforced plastic (FRP) wrapped steel cylinders conducted every three (3) years.

A vehicle that has undergone approved conversion to LNG requires the container to have a visual external inspection every five (5) years and the pressure relief devices replaced at a period not exceeding ten (10) years.

General

An acceptable LPG or NG Compliance Plate is one issued by:

- the Department of Transport and Planning (via an Alternative Fuel Systems Assessment and Certification Scheme provider authorised by the Department of Transport and Planning)
- other recognised State and Territory regulatory authorities

- approved volume vehicle manufacturers, e.g. Holden, Ford, etc.

The LPG/LNG/CNG Conversion Report, overleaf, should be presented, completed and signed, at any VicRoads Customer Service Centre to record the fuel type change with VicRoads. Alternatively you may mail the completed form to:

**VicRoads: GPO Box 1644,
Melbourne Vic 3001.**

A LPG Compliance Plate is not required on LPG conversions carried out prior to February 1993, a CNG Compliance Plate is not required on conversions carried out prior to August 2000 and an NG compliance plate is not required on LNG conversions carried out prior to 16 March 2009.

These conversions are approved modifications provided they comply with the technical requirements of the relevant Australian Standard current at the time of conversion.

However, the conversions may not be acceptable to prospective purchasers of the vehicle and may not be recognised in a number of other States and Territories. For these reasons it is suggested that existing conversions be checked and fitted with the appropriate compliance plate.

Note

If significant alterations to the structure of a vehicle are required then a Vehicle Assessment Signatory Scheme (VASS) signatory must be consulted. If the installation of the tank affects one or more of the existing mandatory child restraint anchorage points, acceptable replacements must be installed. A VASS approval certificate will be required where any changes to the vehicle structure or restraint system have been made.

Decommissioning of LPG/LNG/CNG systems

In the case that a vehicle will no longer be running on gas, the system must be decommissioned and the compliance plate removed. Go to a VicRoads Customer Service Centre to notify them of any changes made to the vehicle.

Contact us



Post all documents to:
Vic Roads, GPO Box 1644,
Melbourne, Victoria 3001

Call: 13 11 71
(Speak and Listen 1300 555 727)

Web: transport.vic.gov.au



Language Loop (formerly Victorian Interpreting & Translating Services - VITS) call (03) 9280 0783, then ask for 13 11 71.

LPG/LNG/CNG conversion report

Return this completed form to:

Post: VicRoads, GPO Box 1644
Melbourne VIC 3001

| | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|--|--|
| Vehicle Registration number | | | | | | | | | | |
| Date | D | D | M | M | Y | Y | Y | Y | | |

Owner's details

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|----------|--|--|--|
| Surname/family name or company name | | | | | | | | | | | |
| Given names | | | | | | | | | | | |
| Postal address | | | | | | | | Postcode | | | |
| Residential address (if same as postal, write AS ABOVE) | | | | | | | | Postcode | | | |

Vehicle details

| | | | | | | | | | | | | |
|---|--|--|--|---|--------------------------------|---|--------------------------------|----------|--------------------------------|---|---|--|
| Make | | | | | Model | | | | | | | |
| Body type (i.e. Sedan, Utility, Prime-mover, Tray, etc) | | | | | Year of Manufacture | | | | | | | |
| Fuel System converted to: (tick appropriate boxes) | | | | | <input type="radio"/> LPG only | | <input type="radio"/> LNG only | | <input type="radio"/> CNG only | | <input type="radio"/> Dual Fuel | |
| If Dual Fuel indicate which combination applies. | | | | | <input type="radio"/> Petrol | | <input type="radio"/> Diesel | | <input type="radio"/> LPG | | <input type="radio"/> LNG <input type="radio"/> CNG | |
| Date of Conversion | | | | D | D | M | M | Y | Y | Y | Y | |
| Checked/converted by: (Name) | | | | | | | | | | | | |
| Address | | | | | | | | Postcode | | | | |
| Engine number | | | | | | | | | | | | |
| VIN (chassis or frame number if no VIN) | | | | | | | | | | | | |
| LPG/NG compliance Plate Number | | | | | Registered Business No: | | | | | | | |
| VicRoads Registered No.: | | | | | Other | | | | | | | |
| Registered Operator Signature | | | | | Converter's Signature | | | | | | | |

OFFICE USE ONLY

| | | | | | | | | |
|-------------------------|--|--|--------------------------|--|--|------------------|--|--|
| Customer Service Centre | | | Signature of R&L Officer | | | Database amended | | |
|-------------------------|--|--|--------------------------|--|--|------------------|--|--|