

Vehicle Standards Information 27

June 2021

This information sheet supersedes all previous copies of VSI 27.

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 252 of the *Road Safety (Vehicles) Interim Regulations 2020* requires all modifications to a vehicle to either have specific approval from VicRoads or to be carried out in accordance with guidelines published by VicRoads.

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 252.

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).
- VicRoads must be notified by the registered operator 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 VicRoads approved provider complies with these requirements)

- A vehicle that has undergone approved conversion to LPG, LNG, or CNG requires recertification every 10 years from the date of compliance.

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:

- VicRoads (Compliance plates are only issued to businesses registered with VicRoads – ph 1300 309 571)

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- 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 a 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) engineer 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. VicRoads must be notified of any changes made to the vehicle.

For further information

Further information is available on the VicRoads website:

vicroads.vic.gov.au or by calling VicRoads on **13 11 71** (TTY **13 36 77**, Speak and Listen **1300 555 727**).

LPG/LNG/CNG conversion report

To: VicRoads
 GPO Box 1644
 MELBOURNE VIC 3001

Vehicle reg. no.							
Date	D	D	M	M	Y	Y	Y

Owners Details (USE BLOCK LETTERS)

Surname, family name or company name

Given names

Address	Postal	Postcode
	Residential <i>(if same as postal, write AS ABOVE)</i>	Postcode

Vehicle Details (USE BLOCK LETTERS)

Make of Vehicle	Body Type (i.e. Sedan, Utility, Prime-mover, Tray, etc)
Year of Manufacture	

Fuel System converted to: (tick appropriate boxes) LPG only LNG only CNG only Dual Fuel

If Dual Fuel indicate which combination applies. PETROL DIESEL LPG LNG CNG

Date of Conversion: (tick appropriate boxes)

D	D	M	M	Y	Y	Y	Y
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Converted/ Checked by:	Name:	
	Address:	Postcode

Engine Number	VIN (or chassis number if known)
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
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