

CSA B149.5-20 Installation code for propane fuel systems and containers on motor vehicles

The CSA B149.5 Installation code for propane fuel systems and containers on motor vehicles applies to the installation, servicing, and repair of propane fuel system components and containers on motor vehicles for the provision of motive power, and the installation of containers on motor vehicles such as recreational vehicles, outdoor food service units, and wash-mobiles when propane is to be used for fuel purposes (other than motive power).

Technical Safety BC plans to recommend adopting the 2020 edition of the CSA B149.5, with no variations.

Section or clause	Revisions	Impacts
General	Removal of bold and italicized text and symbols indicating revisions to improve accessibility by allowing for digital readers.	All code users: The codes are now accessible on electronic reading devices.
Clause 1.2	Clarification made to method of confirmation of Original Equipment Manufacturer (OEM) status.	All code users: Clarifies that compliance with Canadian Motor Vehicle Safety Regulations must be done through the original manufacturer.
General	Changed to metric as the primary unit of measure throughout the code.	All code users: Changed to units of measurement promote alignment and consistency with other nationally recognized codes and standards.
Clause 5.3.5.3	Reference added to ISO 19825 and UL 1337.	All code users: Updated reference documents align with other nationally recognized standards.
Clause 5	Rationalization of installation and design requirements to maintain alignment with CSA B51.	All code users: Revisions to installation and design requirements align with CSA B51 requirements under PEBPVRSR.

Section or clause	Revisions	Impacts
Clause 5	Various updates to technical requirements: • Pressure rating of container appurtenances must match the container PRV • Elimination of second fixed liquid level gauge at remote fill location • Added requirements for return connections to a fuel tank • Changes to the requirements for filling multiple tanks in a vehicle • Use of gear clamps with propane hoses is prohibited • Changes to the angle of venting for PRVs • Changes to purging requirements and container decommissioning	Conversion facilities and qualified individuals who perform conversions: Technical requirements remove redundancy and provide additional safety in applications not previously addressed under this code.
Annex C	Addition of recommended Original Equipment Manufacturer (OEM) window label to encourage consistency across new manufactured propane-powered vehicles and vehicles converted in accordance with this code.	Vehicle conversion facilities: Must continue to apply vehicle conversion label to all vehicles when converting to meet this code. The code provides an example of an OEM vehicle label.