

REDUCE YOUR RISK WITH

Zafety Lug Lock®

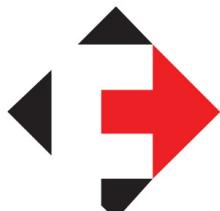
YOUR SAFETY IS OUR CONCERN



ERNEST C. MANNING
INNOVATION
AWARDS

PRIX
D'INNOVATION
ERNEST C. MANNING

Winner of Canada's most prestigious innovation award
2013 Ernest C. Manning Innovation Award



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Zafety Lug Lock®*

Prevent wheel loss by securing your lug nuts to each other.

Zafety Lug Lock® creates resistance between two nuts to minimize their ability to rotate

The potential for wheel loss continues to be a significant safety concern for the transportation industry



www.zafetyluglock.com



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CA Pat. 2,637,356
US Pat. 8708627 B2*
Made in Canada

Details:

- Fast and easy to install/remove – flexible, simply fits over two adjacent nuts
- Lug nuts can be re-torqued without removing the Zafety Lug Lock®
- Laboratory tested in severe ambient temperature & vibration conditions - standard temperature units from **-40°C to +120°C (-40°F to +248°F)** and high temperature units from **-40°C to +150°C (-40°F to +302°F)**
- Field tested at high and low rotation speeds on all types of surfaces
- 2-year Limited Manufacturers Defect Warranty
- Available in orange, red, white, blue, black, green and custom colours
- Design engineered plastic formulated to withstand extreme changes in temperature
 - **Standard temperature units** are designed to withstand continuous operating temperatures from -40 degrees Centigrade (-40°F) to +100 degrees Centigrade (+212°F) with transient temperature spikes up to +120 degrees Centigrade (+248°F)
 - **High temperature units** are designed to withstand continuous operating temperatures from -40 degrees Centigrade (-40°F) to +160 degrees Centigrade (+320°F) with transient temperature spikes up to +232 degrees Centigrade (+450°F)-(recommended for vehicles that brake frequently e.g. city transit buses, waste collection)
- Sizes available
 - 30, 32, 33 mm & 38 mm nuts on 3 1/2 inch stud centres
 - 30, 32, & 33 mm nuts on 4 1/8 inch stud centres
 - 38 mm nuts on 4 3/8 inch stud centres
 - 22 & 25 mm nuts on 2 1/2 inch stud centres
 - 21 mm nuts on 2 3/4 inch stud centres

Benefits:

- Provides a clear visual check in all weather and light conditions
- Reduces the risk of potential wheel loss (**Protecting the public and avoiding owner or third party personal, vehicle, property & load damage, lost time & costly towing, road call fees & wheel repairs**)
- Inexpensive, reusable and recyclable

Note: The installation of Zafety Lug Lock® does not exclude the need for standard safety & maintenance procedures.

*Zafety Lug Lock® is a Registered Trademark and CA Pat. 2,637,356 & US Pat. 8708627 B2 of Tafcan Consulting Limited

Zafety Lug Lock®^{*}

Product Update Bulletin - June 2010

Lug nuts with Zafety Lug Lock® units installed can be torque checked **without removing the Zafety Lug Lock® units**. The torque check will not damage or reduce the nut retention capabilities of the Zafety Lug Lock® units. Your initial installation reduces your risk of wheel loss and damage and now you can continue to follow your safety and maintenance procedures without removing the Zafety Lug Lock® units – saving significant man-hours for your maintenance department.

Testing Complete: Exova Report No. 10-03-C0152 Rev.2

The report prepared by Exova (an independent testing facility) for Tafcan Consulting Ltd. details the testing undertaken to confirm that wheel lug nuts can be torque checked **without removing installed Zafety Lug Lock® units**. The results of the test indicated that “*No failure was observed during visual examination of the tested samples. No deformations of the entire unit were observed; all samples maintained the initial shape. No cracks or wear were observed on the tooth saw section (area in contact with the nut) on any tested samples.*” A copy of the report is available.

Prevent wheel loss by securing your lug nuts to each other.
Zafety Lug Lock® creates resistance between two nuts to minimize their ability to rotate.

Sizes Now Available!:

- 30, 32, 33 & 38 mm nuts on 3 1/2 inch stud centres
- 30, 32 & 33 mm nuts on 4 1/8 inch stud centres
- 38 mm nuts on 4 3/8 inch stud centres
- 22 & 25 mm nuts on 2 1/2 inch stud centres
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Zafety Lug Lock®

S =STANDARD TEMP H =HIGH TEMP



4 1/8" x 1 5/16" 104.8mm x 33mm



4 1/8" x 1 9/32" 104.8mm x 32mm



4 1/8" x 1 3/16" 104.8mm x 30mm



3 1/2" x 1 5/16" 88.9mm x 33mm



3 1/2" x 1 9/32" 88.9mm x 32mm



3 1/2" x 1 3/16" 88.9mm x 30mm



3 1/2" x 1 1/2" 88.9mm x 38mm



4 3/8" x 1 1/2" 111.1mm x 38mm



2 3/4" x 7/8" 69.9mm x 21mm VAN



2 1/2" x 1" 63.5mm x 25mm VAN



2 1/2" x 7/8" 63.5mm x 22mm VAN

Product Features & Sizes

Zafety Lug Lock® is produced in an ISO-9001-2008 certified facility. Zafety Lug lock is formulated from design-engineered plastic formulated to withstand extreme changes in temperature. The standard formulation is designed to withstand continuous operating temperatures of -40 degrees Centigrade (-40°F) to +100 degrees Centigrade (+212°F) with transient temperature spikes up to +120 degrees Centigrade (+248°F) giving it a total transient operating temperature range of 140 degrees Centigrade or 252 degrees Fahrenheit.

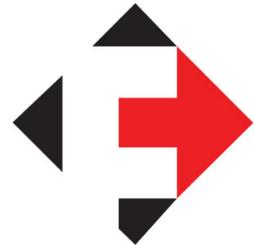
Studs	Spacing		Nut Size		Application NA – North America, AU Australia, UK/EU United Kingdom/European Community
	Metric	US	Metric	US	
10	104.8 mm	4 1/8 "	33 mm	1 5/16"	NA - Transit Buses, Off-Road Applications & Some Coaches, AU - Residential Garbage Trucks, ISUZU, HINO
10	104.8 mm	4 1/8 "	32 mm	1 9/32"	UK/EU - Public Transportation & Tractor Trailers,
8	104.8 mm	4 1/8 "	30 mm	1 3/16"	UK/European - Lift axle on Tractor Trail-
10	88.9 mm	3 1/2"	38.1 mm	1 1/2"	Some Prevost & MCI Coaches
10	88.9 mm	3 1/2"	33 mm	1 5/16"	NA Large Trucks & Trailers, Ford, Mack, Freightliner, Kenworth, Western Star, etc., Type C & D School Buses, Utility Trucks, Ready Mix Trucks, etc.
10	88.9 mm	3 1/2"	32 mm	1 9/32"	UK/European Commercial Vehicles – Large Trucks & Trailers, AU - IVECO
6	111.1 mm	4 3/8 "	38.1 mm	1 1/2"	Curbside Delivery vehicles
8	69.9 mm	2 3/4"	21 mm	13/16"	F59 Chassis - Delivery Vans, Step Vans
8	63.5 mm	2 1/2"	25.4 mm	1"	Delivery Vans, Utility & Landscaping Trucks, Step Vans
8	63.5 mm	2 1/2"	22.2 mm	7/8"	Small Transit Buses, Delivery & Step Vans, Smaller type A & B School Buses, EMS Vehicles, F350 & 450, etc.

The high temperature Zafety Lug Lock® engineered plastic was developed specifically to address the conditions in high temperature environments created by frequent stop vehicles. Vehicles requiring the high temperature Zafety Lug Lock® product typically include public transportation vehicles (city buses) and refuse trucks. The high temperature formulation is designed to withstand continuous operating temperatures from -40 degrees Centigrade (-40°F) to +160 degrees Centigrade (+320°F) with transient temperature spikes up to +232 degrees Centigrade (+450°F) giving it a total transient operating temperature range of 200 degrees Centigrade or 360 degrees Fahrenheit.

Tafcan Consulting Limited - Safety Lug Lock®

							Special Notes NA (North America), UK (United Kingdom), AU (Australia)		
Size - Distance between Nuts		Name	Std/High Temperature ¹	Nut Size	Standard Colours	Stock Colours	Part Numbers - Standard and Stock Colours		
Metric	US			Metric	US				
111.1 mm	4 3/8"	Delivery	High	38 mm	1 1/2"	Red	Metallic Grey, Custom Colour Match	ZDHRB-33, ZDHMB-33, ZDHGB-33, ZDHSW-33, ZDSRB-33,	
111.1 mm	4 3/8"	Delivery	Std	38 mm	1 1/2"	Orange	Black, White, Red, Green	ZDSOB-33, ZDSBB-33, ZDSWB-33, ZDSRB-33, ZDSYB-33, ZDSLB-33, ZDSCB-33,	
104.8 mm	4 1/8 "	Transit	High	33 mm	1 5/16"	Red	Metallic Grey, Custom Colour Match	ZTHR-33, ZTHWB-33, ZTHGB-33, ZTHMB-33	
104.8 mm	4 1/8 "	Transit	Std	33 mm	1 5/16"	Orange	Black, White, Red, Green	ZTSOB-33, ZTSBB-33, ZTSWB-33, ZTSRB-33, ZTSYB-33, ZTSLB-33, ZTSCB-33,	
104.8 mm	4 1/8"	Transit	High	32 mm	1 9/32"	Red	Metallic Grey, Custom Colour Match	ZTHR-32, ZTHWB-32, ZTHGB-32, ZTHMB-32	
104.8 mm	4 1/8"	Transit	Std	32 mm	1 9/32"	Orange	Black, White, Red, Green	ZTSOB-32, ZTSBB-32, ZTSWB-32, ZTSRB-32, ZTSYB-32, ZTSLB-32, ZTSCB-32	
104.8 mm	4 1/8"	Transit	High	30 mm	1 3/16"	Red	Metallic Grey, Custom Colour Match	ZTHR-30, ZTHWB-30, ZTHGB-30, ZTHMB-30	
104.8 mm	4 1/8"	Transit	Std	30 mm	1 3/16"	Orange	Black, White, Red, Green	ZTSOB-30, ZTSBB-30, ZTSWB-30, ZTSRB-30, ZTSYB-30, ZTSLB-30, ZTSCB-30	
88.9 mm	3 1/2"	Commercial	High	38.1 mm	1 1/2"	Red	Metallic Grey, Custom Colour Match	ZCHR-38, ZCHWB-38, ZCHGB-38, ZCHMB-38	
88.9 mm	3 1/2"	Commercial	Std	38.1 mm	1 1/2"	Orange	Black, White, Red, Green	ZCSOB-38, ZCSBB-38, ZCSWB-38, ZCSR-38, ZCSYB-38, ZCSLB-38, ZCSCB-38	
88.9 mm	3 1/2"	Commercial	High	33 mm	1 5/16"	Red	Metallic Grey, Custom Colour Match	ZCHR-33, ZCHWB-33, ZCHGB-33, ZCHMB-33	
88.9 mm	3 1/2"	Commercial	Std	33 mm	1 5/16"	Orange	Black, White, Red, Green	ZCSOB-33, ZCSBB-33, ZCSWB-33, ZCSR-33, ZCSYB-33, ZCSLB-33, ZCSCB-33	
88.9 mm	3 1/2"	Commercial	High	32 mm	1 9/32"	Red	Metallic Grey, Custom Colour Match	ZCHR-32, ZCHWB-32, ZCHGB-32, ZCHMB-32	
88.9 mm	3 1/2"	Commercial	Std	32 mm	1 9/32"	Orange	Black, White, Red, Green	ZCSOB-32, ZCSBB-32, ZCSWB-32, ZCSR-32, ZCSYB-32, ZCSLB-32, ZCSCB-32	
88.9 mm	3 1/2"	Commercial	High	30 mm	1 3/16"	Red	Metallic Grey, Custom Colour Match	ZCHR-30, ZCHWB-30, ZCHGB-30, ZCHMB-30	
88.9 mm	3 1/2"	Commercial	Std	30 mm	1 3/16"	Orange	Black, White, Red, Green	ZCSOB-30, ZCSBB-30, ZCSWB-30, ZCSR-30, ZCSYB-30, ZCSLB-30, ZCSCB-30	
69.9 mm	2 3/4"	Van	High	21 mm	13/16"	Red	White, Green, Metallic Grey, Custom Colour Match	ZVHRB-21, ZVHWB-21, ZVHGB-25, ZVHMB-21	
69.9 mm	2 3/4"	Van	Std	21 mm	13/16"	Orange	White	ZVSOB-21, ZVSSB-21, ZVSWB-21, ZVSRB-21, ZVSYB-21, ZVSLB-21, ZVSCB-21	
63.5 mm	2 1/2"	Van	High	25.4 mm	1"	Red	Black, Red, Yellow, Blue, Custom Colour Match	ZVHRB-25, ZVHWB-25, ZVHGB-25, ZVHMB-25	
63.5 mm	2 1/2"	Van	Std	25.4 mm	1"	Orange	White	ZVSOB-25, ZVSSB-25, ZVSWB-25, ZVSRB-25, ZVSYB-25, ZVSLB-25, ZVSCB-25	
63.5 mm	2 1/2"	Van	High	22.2 mm	7/8"	Red	White, Green, Metallic Grey, Custom Colour Match	ZVHRB-22, ZVHWB-22, ZVHGB-22, ZVHMB-22	
63.5 mm	2 1/2"	Van	Std	22.2 mm	7/8"	Orange	White	ZVSOB-22, ZVSSB-22, ZVSWB-22, ZVSRB-22, ZVSYB-22, ZVSLB-22, ZVSCB-22	

1. High temperature units are recommended for "Frequent Stop and Go" vehicles and vehicles in the UK & Europe because of the terrain and shorter driving distances.



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