



Wheel Bolts / Nuts Fastener Specifications



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General handling information



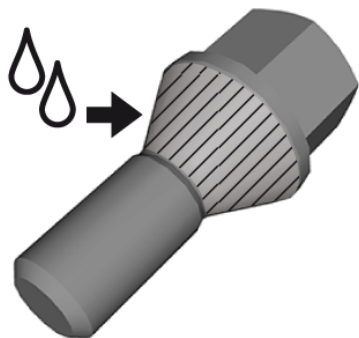
This data catalogue shows the specifications for fastening the wheel bolts or nuts for each Opel / Vauxhall model.

Note:

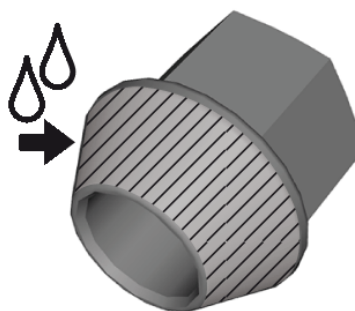
The preparation and processing of the wheel changing is not part of this catalogue. Please follow the wheel changing instructions in the vehicle specific owners manual.

Find the fastener / torque specifications for each car model in the table at the end of this document. Thinly apply grease to the cone of the wheel bolt or nut, only if applicable according to table.

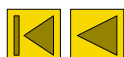
Wheel bolt
Greasing Area



Wheel nut
Greasing Area



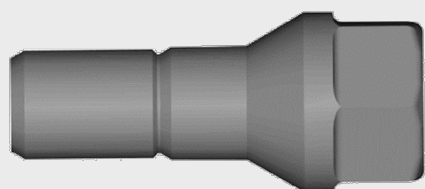
Greasing according to table.



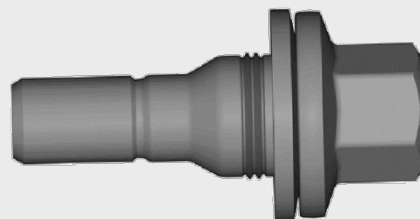
Specific Wheel Bolts for Carlines marked with (1) in table

Warning:

The correct wheel type and wheel bolt combination must be used, with steel and alloy wheels. Both types of wheel bolts require different torque specifications. Failure to use the correct wheel bolts with the correct type of wheel may cause the wheel to loosen, loss of tire air pressure, poor vehicle handling and loss of vehicle control which could result in personal injury.



Steel Rim Wheel Bolt

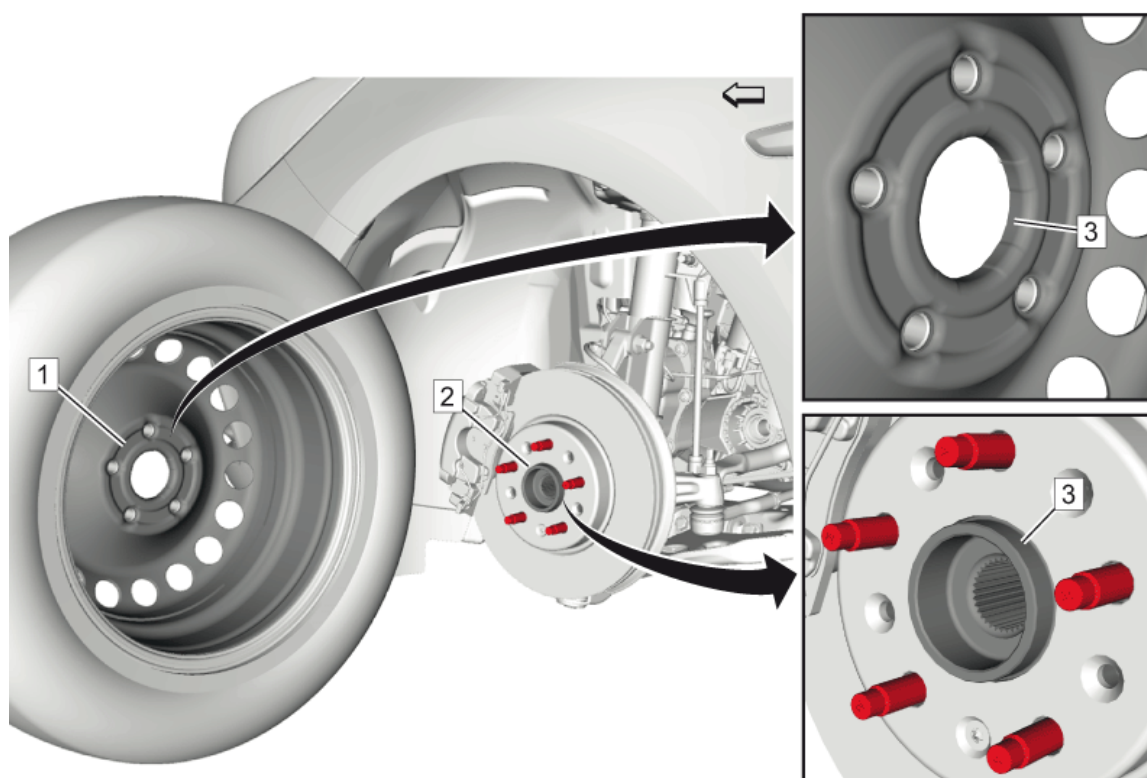


Alloy Rim Wheel Bolt

Wheel and Hub

Warning:

Before installing the wheels, remove any buildup of corrosion on the wheel mounting surface and brake drum or disc mounting surface. Installing wheels with poor metal-to-metal contact at the mounting surfaces can cause wheel nuts to loosen. This can cause a wheel to come off when the vehicle is moving, causing loss of control and possibly personal injury.



Remove any corrosion or foreign material from the wheel (1) and the hub (2) mounting surfaces.

Apply grease slightly to the centering of the wheel (3).



General handling information

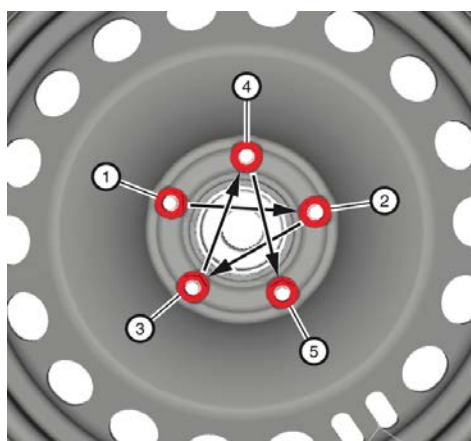
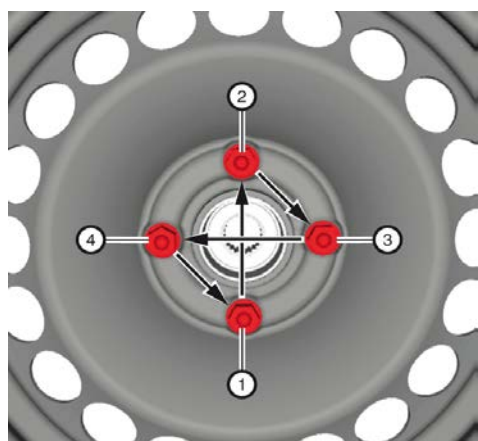


Warning:

Insert the wheel bolts by hand and turn at least 5 revolutions to make sure that the bolts are seated correctly. Failure to follow these instructions could result in wheel hub and/or wheel bolt damage. Improperly installed wheel bolts could eventually allow the wheel to come off while the vehicle is moving, possibly causing loss of control and/or personal injury or damage.

Note:

Tighten the nuts evenly and alternately with a torque wrench in the sequence shown, in order to avoid excessive runout.



Fastener Specifications



Model	Restriction	Wheel Bolt	Wheel Nut	Grease to the cone		Specification	
				Yes	No	Metric	English
ADAM		X		X		110Nm	81 lb ft
Agila-A	> 2004		X	X		85Nm	63 lb ft
	2004 >	X		X		110Nm	81 lb ft
Agila-B		X			X	85Nm	63 lb ft
Antara			X		X	140Nm	103 lb ft
Astra-G		X		X		110Nm	81 lb ft
Astra-H		X		X		110Nm	81 lb ft
Astra-J			X		X	140Nm	103 lb ft
Astra-K			X		X	140Nm	103 lb ft
Ampera			X		X	140Nm	103 lb ft
Ampera-e			X		X	140Nm	103 lb ft
Campo			X		X	118Nm	87 lb ft
Cascada			X		X	140Nm	103 lb ft
Corsa-B		X		X		110Nm	81 lb ft
Corsa-C		X		X		110Nm	81 lb ft
Corsa-C Combo		X		X		110Nm	81 lb ft
Corsa-D		X		X		110Nm	81 lb ft
Corsa-E		X		X		110Nm	81 lb ft
Combo-D	Steel Rims		X		X	86Nm	63 lb ft
	Alloy Rims		X		X	120Nm	89 lb ft



Fastener Specifications



Model	Restriction	Wheel Bolt	Wheel Nut	Grease to the cone		Specification	
				Yes	No	Metric	English
Crossland X ⁽¹⁾	Steel Rims	X			X	115Nm	85 lb ft
	Alloy Rims	X			X	100Nm	74 lb ft
Frontera-A	Steel Rims		X		X	110Nm	81 lb ft
	Alloy Rims		X		X	120Nm	89 lb ft
Frontera-B			X		X	118Nm	87 lb ft
Grandland X ⁽¹⁾	Steel Rims	X			X	115Nm	85 lb ft
	Alloy Rims	X			X	100Nm	74 lb ft
Insignia-A			X		X	150Nm	111 lb ft
Insignia-B	M12, wrench size 19 mm		X		X	140Nm	103 lb ft
	M14, wrench size 22 mm		X		X	190Nm	140 lb ft
KARL / VIVA			X		X	140Nm	103 lb ft
Meriva-A		X		X		110Nm	81 lb ft
Meriva-B		X		X		110Nm	81 lb ft
Mokka / Mokka X			X		X	140Nm	103 lb ft

(1) Specific Wheel Bolts

Warning:

The correct wheel type and wheel bolt combination must be used, with steel and alloy wheels. Both types of wheel bolts require different torque specifications. Failure to use the correct wheel bolts with the correct type of wheel may cause the wheel to loosen, loss of tire air pressure, poor vehicle handling and loss of vehicle control which could result in personal injury.



Fastener Specifications



Model	Restriction	Wheel Bolt	Wheel Nut	Grease to the cone		Specification	
				Yes	No	Metric	English
Movano-A	> 2001,5		X		X	150Nm	111 lb ft
	2001,5 >	X			X	170Nm	125 lb ft
Movano-B	Front Wheel Drive	X			X	172Nm	127 lb ft
	Rear Wheel Drive with single rear wheel	X			X	264Nm	195 lb ft
	Rear Wheel Drive with twin rear wheel		X		X	235Nm	173 lb ft
Opel GT	2007 > 2009		X		X	140Nm	103 lb ft
Signum		X		X		110Nm	81 lb ft
Sintra			X		X	140Nm	103 lb ft
Speedster		X			X	90Nm	66 lb ft
Tigra-A		X		X		110Nm	81 lb ft
Tigra-B		X		X		110Nm	81 lb ft
Vectra-C		X		X		110Nm	81 lb ft
Vivaro-A		X			X	140Nm	103 lb ft
Vivaro-B		X			X	160Nm	118 lb ft
Zafira-A		X		X		110Nm	81 lb ft
Zafira-B		X		X		110Nm	81 lb ft
Zafira-C			X		X	140Nm	103 lb ft

