

Lug Nut and Wheel Lock Application Guide



*Protecting the world's
finest wheels for over 30 years!*

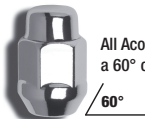
How to select the lug nut or wheel lock

REMEMBER THIS IS ONLY A GUIDE!

ATTENTION: The information provided is **ONLY** a guide. To insure proper lug nut, lug bolt or wheel lock selection, refer to your current lug nut to determine correct lug nut style and thread size for your vehicle.

STEP 1 Determine the seat type of your lug nut for your wheels. Match your lug nut with the charts below, finding the proper seat type. If possible, compare to an actual lug nut from your vehicle for comparison.

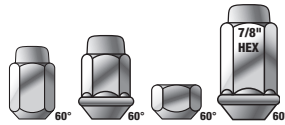
Cone Seat



All Acorn lug nuts have a 60° conical seat.


60°

Different types of cone seat lug nuts



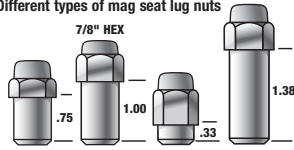
ACORN BULGE ACORN ACORN OPEN END DUPLEX ACORN

Mag Seat



Mag lug nuts have a flat seat and use a washer.

Different types of mag seat lug nuts



7/8" HEX

.75 1.00 .33 1.38

STANDARD MAG DUPLEX MAG SHORT SHANK CRAGAR SST

(Step 1 continued on next page)

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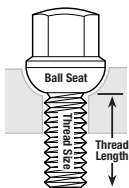
for your vehicle in 2 easy steps.

Lug Bolt Reference Chart

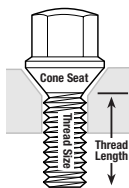
To insure proper lug bolt or lug bolt lock selection, refer to your lug bolt to determine:
SEAT TYPE, THREAD SIZE AND THREAD LENGTH.

When selecting lug bolts, reference the following:

- Seat type - Ball or Cone
- Thread size
- Thread length



Ball Seat Lug Bolt



Cone Seat Lug Bolt



- STEP 2** Determine the correct thread size for your vehicle.
Find the thread size listed in this application guide with the make, model and year of your vehicle.

EXAMPLE:

MAKE AND MODEL	YEAR	THREAD SIZE
CHEVROLET		
Beretta	88-96	12 x 1.50
Camaro	67-81	7/16
Camaro	82-Present	12 x 1.5
Caprice	68-76	1/2
Caprice	77-90	7/16 or 1/2
Caprice	91-96	12 x 1.50
Cavalier	82-Present	12 x 1.50
Celebrity	82-89	12 x 1.50

PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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ACURA

RL	05-Present	14 x 1.50
All Others	86-Present	12 x 1.50

AMERICAN MOTORS

All Others	60-87	1/2
Alliance/Encore	83-87	12 x 1.50

BUICK

Apollo	73-75	7/16
Century	73-81	7/16
Century	82-Present	12 x 1.50
Electra	60-84	1/2
Electra	85-90	12 x 1.50
Lacrosse, Lucerne	05-Present	12 x 1.50
Lesabre	60-76	1/2
Lesabre	77-85	7/16
Lesabre	86-Present	12 x 1.50
Opel	68-79	12 x 1.50
Park Avenue	91-Present	12 x 1.50
Reatta	88-92	12 x 1.50
Regal	77-81	7/16
Regal	82-Present	12 x 1.50
Rendezvous	02-Present	12 x 1.50
Riviera	63-78	1/2
Riviera	79-Present	12 x 1.50
Roadmaster	91-96	12 x 1.50

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MAKE AND MODEL	YEAR	THREAD SIZE
BUICK		
Skyhawk	75-81	7/16
Skyhawk	82-89	12 x 1.50
Skylark	62-79	7/16
Skylark	80-97	12 x 1.50
Somerset	85-87	12 x 1.50
Terraza	05-Present	12 x 1.50

CADILLAC		
Allante	87-93	12 x 1.50
Brougham	87-90	1/2
Brougham	91-95	12 x 1.50
CTS, CTS-V	03-07	12 x 1.50
CTS, CTS-V	08-Present	14 x 1.50
Catera	97-Present	12 x 1.50
Cimarron	81-88	12 x 1.50
DTS	06-Present	12 x 1.50
Deville	62-84	1/2
Deville	85-Present	12 x 1.50
Eldorado	53-78	1/2
Eldorado	79-Present	12 x 1.50
Fleetwood	60-86	1/2
Fleetwood	85-96	12 x 1.50
Seville	75-76	7/16
Seville	77-79	1/2
Seville	80-Present	12 x 1.50
XLR, XLR-V, STS	04-Present	12 x 1.50

PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
CHEVROLET		
Aveo	04-Present	12 x 1.50
Bel Air, Biscayne	54-70	7/16
Beretta	88-96	12 x 1.50
Camaro	67-81	7/16
Camaro	82-02	12 x 1.50
Camaro	10-Present	14 x 1.50
Caprice	68-76	1/2
Caprice	77-90	7/16 or 1/2
Caprice	91-96	12 x 1.50
Cavalier	82-Present	12 x 1.50
Celebrity	82-89	12 x 1.50
Chevelle	64-76	7/16
Chevette	76-87	12 x 1.50
Citation	80-85	12 x 1.50
Cobalt	05-Present	12 x 1.50
Corsica	88-96	12 x 1.50
Corvair	60-69	7/16
Corvette	53-83	7/16
Corvette	84-Present	12 x 1.50
HHR	06-Present	12 x 1.50
Impala	58-70	7/16
Impala	77-84	7/16 or 1/2
Impala SS	93-Present	12 x 1.50
Impala, Belaire, Biscayne	71-76	1/2
Lumina	89-Present	12 x 1.50



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MAKE AND MODEL	YEAR	THREAD SIZE
CHEVROLET		
Malibu	82-Present	12 x 1.50
Monte Carlo	70-81	7/16
Monte Carlo	82-Present	12 x 1.50
Monza	75-81	7/16
Nova	86-89	12 x 1.50
Nova, Chevy II	62-79	7/16
Sprint	85-93	10 x 1.25
Vega	71-77	7/16

CHRYSLER		
300, Crossfire	05-Present	14 x 1.50
300M	99-04	12 x 1.50
Cirrus	95-Present	12 x 1.50
Concorde	93-Present	12 x 1.50
Cordoba	75-83	1/2
Imperial	81-83	1/2
Imperial	90-95	12 x 1.50
Laser	84-86	12 x 1.50
Lebaron	71-81	1/2
Lebaron	82-95	12 x 1.50
LHS	93-Present	12 x 1.50
New Yorker	83-98	12 x 1.50
New Yorker Fifth Avenue	71-92	1/2
Newport	71-81	1/2
Sebring	95-Present	12 x 1.50



PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
DAEWOO		
Leganza, Nubira	99-Present	12 x 1.50
DAIHATSU		
All	91-92	12 x 1.50
DODGE		
400	82-84	12 x 1.50
600	83-89	12 x 1.50
Aries	81-89	12 x 1.50
Aspen	76-80	1/2
Avenger	95-Present	12 x 1.50
Caliber	06-Present	12 x 1.50
Challenger	71-74	1/2
Challenger	78-83	12 x 1.50
Challenger	09-Present	14 x 1.50
Charger	71-76	1/2
Charger	78-88	12 x 1.50
Charger	06-Present	14 x 1.50
Colt	72-93	12 x 1.50
Conquest	84-88	12 x 1.50
Coronet	71-77	1/2
Dart	71-76	7/16 or 1/2
Daytona	81-94	12 x 1.50
Diplomat	77-88	1/2
Dynasty	88-95	12 x 1.50
Intrepid	93-Present	12 x 1.50
Lancer	85-89	12 x 1.50

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MAKE AND MODEL	YEAR	THREAD SIZE
DODGE		
Magnum	71-79	1/2
Magnum	05-Present	14 x 1.50
Mirada	79-83	1/2
Monaco	71-78	1/2
Monaco	90-92	12 x 1.50
Neon	94-Present	12 x 1.50
Omni	78-91	12 x 1.50
Polara	71-73	1/2
Shadow	87-95	12 x 1.50
Shelby	83-91	12 x 1.50
Spirit	91-95	12 x 1.50
St. Regis	79-81	1/2
Stealth	91-96	12 x 1.50
Stratus	95-Present	12 x 1.50
Viper	92-Present	1/2

EAGLE

All	88-97	12 x 1.50
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FORD

Contour	95-Present	12 x 1.50
Custom	65-76	1/2
Escort	84-Present	12 x 1.50
EXP	84-88	12 x 1.50
Fairlane	55-76	1/2
Fairmont	78-83	1/2
Falcon	60-70	1/2

PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
FORD		
Five Hundred	05-Present	1/2
Focus	99-Present	12 x 1.50
Fusion	06-Present	12 x 1.50
Galaxie	60-64	1/2
Granada	75-82	1/2
LTD/Crown Victoria	65-Present	1/2
Maverick	69-77	1/2
Mustang	65-Present	1/2
Pinto	71-80	1/2
Probe	89-97	12 x 1.50
Taurus	86-06	12 x 1.50
Taurus	08-Present	1/2
T-Bird	55-88	1/2
T-Bird	89-Present	12 x 1.50
Tempo	84-94	12 x 1.50
Torino	68-76	1/2
ZX2	98-Present	12 x 1.50

GEO

Metro	90-94	10 x 1.25
Metro	95-Present	12 x 1.25
Metro (Convertible)	90-93	12 x 1.25
Prizm	90-Present	12 x 1.50
Spectrum	85-89	12 x 1.50
Storm	90-93	12 x 1.50



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MAKE AND MODEL	YEAR	THREAD SIZE
HONDA		
All	83-Present	12 x 1.50
HYUNDAI		
All	86-Present	12 x 1.50
INFINITI		
All (QX4 see trucks)	90-Present	12 x 1.25
ISUZU		
All	83-93	12 x 1.50
JAGUAR		
All	76-Present	1/2
S Type	99-Present	12 x 1.50
JEEP		
Compass	06-Present	12 x 1.50
KIA		
All	97-Present	12 x 1.50
LEXUS		
All	90-Present	12 x 1.50
LINCOLN		
Continental	69-87	1/2
Continental	88-Present	12 x 1.50
LS	01-Present	12 x 1.50
Mark	67-92	1/2
Mark VIII	93-98	12 x 1.50



PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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LINCOLN

Town Car	84-Present	1/2
Versailles	77-80	1/2
Zephyr, MKZ	06-Present	12 x 1.50

MAZDA

All	86-Present	12 x 1.50
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MERCURY

Bobcat	75-80	1/2
Capri	70-74	7/16
Capri	76-77	12 x 1.50
Capri	78-86	1/2
Capri	91-94	12 x 1.50
Comet	60-77	1/2
Cougar	67-88	1/2
Cougar	89-Present	12 x 1.50
Cyclone	67-71	1/2
Grand Marquis	91-Present	1/2
Lynx	84-87	12 x 1.50
Marquis	67-90	1/2
Merkur	85-89	12 x 1.50
Milan	06-Present	12 x 1.50
Monarch	75-80	1/2
Montclair	60-68	1/2
Montego	68-76	1/2
Montego	05-Present	12 x 1.50



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MAKE AND MODEL	YEAR	THREAD SIZE
MERCURY		
Monterey	60-74	1/2
Mystique	95-Present	12 x 1.50
Sable	86-05	12 x 1.50
Sable	08-Present	1/2
Topaz	84-94	12 x 1.50
Tracer	88-Present	12 x 1.50
Zephyr	78-83	1/2

MITSUBISHI

All	83-Present	12 x 1.50
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NISSAN/DATSUN

All	68-Present	12 x 1.25
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OLDSMOBILE

88	86-Present	12 x 1.50
98	60-84	1/2
98	85-96	12 x 1.50
Achieva	92-98	12 x 1.50
Alero	98-Present	12 x 1.50
Aurora	95-Present	12 x 1.50
Custom Cruiser	81-90	1/2
Custom Cruiser	91-95	12 x 1.50
Cutlass	64-81	7/16
Cutlass	82-Present	12 x 1.50
Delta 88	77-85	7/16 or 1/2
Firenza	82-88	12 x 1.50



PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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OLDSMOBILE

Intrigue	98-Present	12 x 1.50
Omega	73-79	7/16
Omega	80-84	12 x 1.50
Regency	97-98	12 x 1.50
Starfire	75-80	7/16
Toronado	66-78	1/2
Toronado	79-92	12 x 1.50

PLYMOUTH

Acclaim	89-95	12 x 1.50
Arrow	All	12 x 1.50
Barracuda	71-76	7/16 or 1/2
Belvedere	71-76	1/2
Breeze	97-Present	12 x 1.50
Caravelle	84-89	12 x 1.50
Cricket	All	12 x 1.25
Duster	71-76	7/16 or 1/2
Fury	71-89	1/2
Horizon	78-90	12 x 1.50
Laser	90-94	12 x 1.50
Reliant	81-89	12 x 1.50
Road Runner	71-76	1/2
Sapporo	All	12 x 1.50
Satellite	71-76	1/2
Sundance	87-94	12 x 1.50
TC3	78-84	12 x 1.50

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MAKE AND MODEL	YEAR	THREAD SIZE
PLYMOUTH		
Turismo	78-88	12 x 1.50
Valiant	71-76	7/16 or 1/2
Volare	76-80	1/2
PONTIAC		
6000	82-92	12 x 1.50
Astire	75-77	7/16
Bonneville	60-76	1/2
Bonneville	77-81	7/16 or 1/2
Bonneville	82-Present	12 x 1.50
Catalina	60-76	1/2
Catalina	77-81	7/16 or 1/2
Fiero	84-88	12 x 1.50
Firebird	67-81	7/16
Firebird	82-Present	12 x 1.50
G3, G5, G6, G8, SV6, Solstice	05-Present	12 x 1.50
Grand AM	73-84	7/16
Grand AM	85-Present	12 x 1.50
Grand Prix	69-81	7/16
Grand Prix	82-Present	12 x 1.50
J2000	82-84	12 x 1.50
Lemans	64-81	7/16
Parisienne	83-86	7/16
Phoenix	80-84	12 x 1.50
Safari Wagon	87-88	1/2

PASSENGER CAR APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
PONTIAC		
Sunbird	76-81	7/16
Sunbird	84-94	12 x 1.50
Sunfire	95-Present	12 x 1.50
T1000	82-87	12 x 1.50
Ventura	60-77	7/16
SAAB		
9-2X	05-Present	12 x 1.25
9-3, 9-5, 9-7X	06-Present	12 x 1.50
SATURN		
All (except LS)	91-Present	12 x 1.50
SCION		
TC, XA, XB, XD	04-Present	12 x 1.50
SUBARU		
All	77-Present	12 x 1.25
SUZUKI		
Forenza, Reno, Verona	04-Present	12 x 1.50
All Others	89-Present	12 x 1.25
TOYOTA		
All	68-Present	12 x 1.50
VOLVO		
S40, V40, V50	00-Present	12 x 1.50
700 and 900 Series, S90, V90	84-98	12 x 1.50
DL-240	70-93	1/2



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 **PASSENGER CARS**



TRUCKS, VANS & SUVs 



TRUCK, VAN & SUV APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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ACURA

MDX	02-06	12 x 1.50
MDX	07-Present	14 x 1.50
RDX	06-Present	12 x 1.50
SLX	96-Present	12 x 1.50

BUICK

Enclave	2007	12 x 1.50
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CADILLAC

Escalade, Escalade Hybrid	99-Present	14 x 1.50
SRX	04-Present	12 x 1.50

CHEVROLET

Astro	85-02	1/2
Astro	03-Present	14 x 1.50
Avalanche	02-Present	14 x 1.50
Blazer 5 Lug	71-91	1/2
Blazer 6 Lug	71-91	7/16
Blazer	92-94	14 x 1.50
Colorado	04-Present	12 x 1.50
El Camino	64-81	7/16
El Camino	82-87	12 x 1.50
Equinox	05-Present	12 x 1.50
Express	96-Present	14 x 1.50
Lumina APV	90-96	12 x 1.50
S-10	83-Present	12 x 1.50
S-10 Blazer	83-Present	12 x 1.50

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MAKE AND MODEL	YEAR	THREAD SIZE
CHEVROLET		
Silverado	99-Present	14 x 1.50
SSR	04-Present	12 x 1.50
Suburban 5 Lug	69-70	7/16
Suburban 5 Lug	71-91	1/2
Suburban 6 Lug	69-91	7/16
Suburban 8 Lug	69-91	9/16
Suburban All	92-Present	14 x 1.50
Tahoe	95-Present	14 x 1.50
Trailblazer	02-Present	12 x 1.50
Traverse	08-Present	14 x 1.50
Truck 5 Lug	71-87	1/2
Truck 6 Lug	65-87	7/16
Truck 8 Lug	65-87	1/2 or 9/16
Truck All	88-98	14 x 1.50
Uplander	05-Present	12 x 1.50
Van 5 Lug	71-96	1/2
Van 6 Lug	71-96	7/16
Van 8 Lug	65-96	9/16
Van 8 Lug	71-96	1/2

CHRYSLER

Aspen	2007	9/16
Pacifica, PT Cruiser	00-Present	12 x 1.50
Town & Country	71-81	1/2
Town & Country	82-Present	12 x 1.50

TRUCK, VAN & SUV APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
DODGE		
Caravan/Grand Caravan	84-Present	12 x 1.50
D50	75-94	12 x 1.50
Dakota	87-04	1/2
Dakota	05-Present	9/16
Durango	98-03	1/2
Durango	04-Present	9/16
Journey	08-Present	12 x 1.50
Nitro	2007	1/2
Raider	87-89	12 x 1.50
Ram Van	71-Present	1/2
Ram Van 2500/3500	94-Present	9/16
Ramcharger	71-92	1/2
Rampage	82-84	12 x 1.50
Sprinter	08-Present	14 x 1.50 Bolt
Truck	71-93	1/2
Truck 1500	94-01	1/2
Truck 1500	02-Present	9/16
Truck 2500/3500	94-Present	9/16

FORD

Aerostar	86-97	1/2
Bronco	66-96	1/2
Bronco II	83-90	1/2
Courier	77-83	12 x 1.50
Edge	07-Present	1/2
Escape	01-Present	12 x 1.50

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MAKE AND MODEL	YEAR	THREAD SIZE
FORD		
Excursion	00-02	14 x 2.00
Excursion	03-Present	14 x 1.50
Expedition	97-2000	12 x 1.75
Expedition	2000 1/2-Present	14 x 2.00
Explorer	91-Present	1/2
Flex	09-Present	1/2
Freestar, Freestyle	04-Present	1/2
Ranger	83-Present	1/2
Superduty (F-250, F-350)	98-02	14 x 2.00
Superduty (F-250, F-350)	03-Present	14 x 1.50
Taurus X	09-Present	1/2
Truck 5 Lug	55-96	1/2
Truck 8 Lug	84-98	1/2 or 9/16
Truck F-150 Light Duty F-250	97-2000	12 x 1.75
Truck F-150 Light Duty F-250	2000 1/2-Present	14 x 2.00
Van 5 Lug	62-Present	1/2
Van 8 Lug	62-Present	1/2
Van 8 Lug	62-Present	9/16
Windstar	94-Present	12 x 1.50

GEO

Tracker	89-Present	12 x 1.25
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GMC

Acadia	2007	14 x 1.50
Caballero	64-81	7/16

TRUCK, VAN & SUV APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
GMC		
Caballero	82-87	12 x 1.50
Canyon	04-Present	12 x 1.50
Denali	98-Present	14 x 1.50
Envoy	99-Present	12 x 1.50
Hummer H2	03-Present	14 x 1.50
Hummer H3	06-Present	12 x 1.50
Jimmy 5 Lug	69-70	7/16
Jimmy 5 Lug	71-91	1/2
Jimmy 6 Lug	71-91	7/16
S-15, Sonoma, Jimmy	83-Present	12 x 1.50
Safari	03-Present	14 x 1.50
Safari	85-02	1/2
Savana	96-Present	14 x 1.50
Sierra	99-Present	14 x 1.50
Suburban 5 Lug	69-70	7/16
Suburban 5 Lug	71-91	1/2
Suburban 6 Lug	71-91	7/16
Suburban 8 Lug	71-91	9/16
Suburban All	92-Present	14 x 1.50
Truck	88-98	14 x 1.50
Truck 5 Lug	71-87	1/2
Truck 6 Lug	60-87	7/16
Truck 8 Lug	65-87	1/2
Truck 8 Lug	65-87	9/16
Vandura 5 Lug	71-96	1/2

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MAKE AND MODEL	YEAR	THREAD SIZE
GMC		
Vandura 6 Lug	71-96	7/16
Vandura 8 Lug	71-96	1/2
Vandura 8 Lug	71-96	9/16
Yukon	92-Present	14 x 1.50

HONDA		
CRV	95-Present	12 x 1.50
Element	02-Present	12 x 1.50
Odyssey, CRV, Passport	94-04	12 x 1.50
Odyssey	05-Present	14 x 1.50
Pilot	02-Present	12 x 1.50
Ridgeline	06-Present	14 x 1.50

INFINITI		
EX, FX, QX4	97-Present	12 X 1.25

ISUZU		
Hombre, Rodeo, Trooper	83-Present	12 x 1.50

JEEP		
Liberty, Patriot	All	12 x 1.50
All 5 Lug	All	1/2
All 6 Lug	All	7/16
Truck 8 Lug	All	1/2

KIA		
All	95-Present	12 x 1.50

TRUCK, VAN & SUV APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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LEXUS

LX450, RX300, GX	97-Present	12 x 1.50
LX470	98-Present	14 x 1.50

LINCOLN

Aviator	03-Present	1/2
MKX, MKS	2007	1/2
Blackwood	2002-2003	14 x 2.00
Mark LT	05-Present	14 x 2.00
Navigator	98-2000	12 x 1.75
Navigator	2000 1/2-Present	14 x 2.00

MAZDA

MPV	90-98	12 x 1.50
Navajo	91-95	1/2
Tribute, CX7, CX9	01-Present	12 x 1.50
Truck B2000, B2200, B2600i	79-93	12 x 1.50
Truck B2300, B3000, B4000	94-Present	1/2

MERCURY

Mountaineer	97-Present	1/2
Villager	93-Present	12 x 1.25

MITSUBISHI

All (except Raider)	83-Present	12 x 1.50
Raider	06-Present	9/16

NISSAN

All	72-Present	12 x 1.25
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ATTENTION: The information provided is **ONLY** a guide. To insure proper lug nut, lug bolt or wheel lock selection, refer to your current lug nut to determine correct lug nut style and thread size for your vehicle.

MAKE AND MODEL	YEAR	THREAD SIZE
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OLDSMOBILE

Bravada	91-Present	12 x 1.50
Silhouette	90-Present	12 x 1.50

PLYMOUTH

Arrow	79-83	12 x 1.50
Trail Duster	71-87	1/2
Voyager Full-Size	77-87	1/2
Voyager	84-Present	12 x 1.50

PONTIAC

Aztek	01-Present	12 x 1.50
Torrent	06-Present	12 x 1.50
Trans Sport/Montana	90-Present	12 x 1.50
Vibe	03-Present	12 x 1.50

SATURN

Outlook	2007	14 x 1.50
Vue, Relay	02-Present	12 x 1.50

SUZUKI

All (except XL-7)	86-Present	12 x 1.25
XL-7	2007	12 x 1.50

TOYOTA

All Others	69-Present	12 x 1.50
Land Cruiser	98-Present	14 x 1.50
Tundra, Sequoia	07-Present	14 x 1.50

LUG BOLT APPLICATIONS

MAKE AND MODEL	YEAR	THREAD SIZE
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AUDI

4000	80-87	12 x 1.50
5000, Quattro, Coupe	80-87	14 x 1.50
A3, A4, A5, A6, A8, Q7, S4, S5, S6, TT	97-Present	14 x 1.50
All Others	88-96	14 x 1.50
Fox	74-79	12 x 1.50

BMW

6 Series, 7 Series	09-Present	14 x 1.25
6 Series, 7 Series	02-08	14 x 1.50
X6	09-Present	14 x 1.25
X3, X5	01-Present	14 x 1.50
All	77-Present	12 x 1.50

CADILLAC

Catera	97-Present	12 x 1.50
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CHRYSLER

Crossfire	04-Present	12 x 1.50
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FORD

Aspire	95-97	12 x 1.50
Fiesta	77-80	12 x 1.50
Festiva	88-93	12 x 1.50

MINI COOPER

All	02-06	12 x 1.50
All	07-Present	14 x 1.25

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MAKE AND MODEL	YEAR	THREAD SIZE
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MERCEDES-BENZ

190	84-94	12 x 1.50
260 & 300 Series	86-Present	12 x 1.50
400 & 500 Series	86-Present	12 x 1.50

VOLKSWAGEN

All Models - 4 Lug Bolts	97-Present	12 x 1.50
All Models - 5 Lug Bolts	97-Present	14 x 1.50
Corrado, Jetta, Passat - 4 Lug Bolts	90-96	12 x 1.50
Corrado, Jetta, Passat V6 - 5 Lug Bolts	92-96	14 x 1.50
Dasher	All	12 x 1.50
Fox, Golf, Quantum, Rabbit, Scirocco	81-96	12 x 1.50
Fox, Golf, Quantum, Scirocco	88-96	12 x 1.50
Rabbit & Scirocco	75-80	12 x 1.50

VOLVO

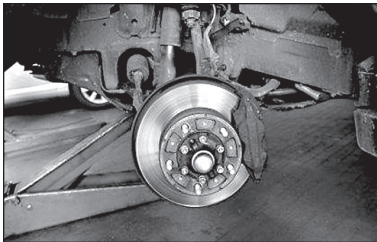
S60	93-Present	14 x 1.50
V70, XC70, S80, XC90	00-Present	14 x 1.50

GORILLA TECH TIPS

PROPER INSTALLATION TIPS

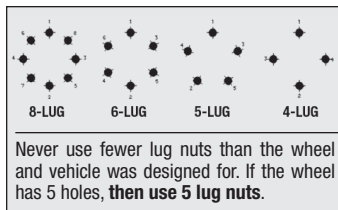
BEFORE YOU BEGIN

Clean and inspect all stud threads and mounting surfaces before installation. Threads must not be lubricated, but must be free of corrosion, rust, burrs, fractures and damaged threads. Replace studs if they are corroded, stripped, damaged, or if any fractures are found. Always use new fasteners (lug nuts or lug bolts) when installing new wheels.



Lug nuts must be tightened in a star or crisscross pattern to ensure uniform pressure and alignment. Apply torque evenly by repeating the star or crisscross pattern until desired torque is reached.

During installation, gravity causes the wheel to rest upon the highest stud. If the wheel is clamped down off-centered, it can be dangerous and damaging to your wheels and tires over time.



Do not allow the wheel to “hang” on studs during the initial tightening; make certain wheel is centered and wheel supported prior to tightening fasteners.



ATTENTION: The information provided is **ONLY** a guide. To insure proper lug nut, lug bolt or wheel lock selection, refer to your current lug nut to determine correct lug nut style and thread size for your vehicle.

PROPER INSTALLATION TIPS

TORQUE GUIDELINES

A calibrated torque device must be used to achieve proper torque specifications.

Use Original Equipment Manufacturer's torque specification. If it is not specified in the vehicle owner's manual contact the vehicle manufacturer. If the Original Manufacturer does not provide a specification, check with the aftermarket wheel manufacturer for a specification.

In the event that neither the vehicle manufacturer nor the aftermarket wheel manufacturer give you the specification, the following **MAY** serve as a guideline for passenger cars and light-trucks only:

Stud Diameter	Torque Range (Ft/lbs)
12MM	75 - 85
14MM	85 - 95
7/16"	70 - 80
1/2"	75 - 85
9/16"	105 - 115
5/8"	125 - 135

IMPORTANT: Check new fasteners against the vehicle wrench making sure they are same size. If the new fasteners have a different hex size than the original equipment wrench provided with vehicle, be sure to advise the customer that a correct size wrench will be required to remove the new aftermarket fasteners being installed.

(more installation information on next page)



GORILLA TECH TIPS

AFTER INSTALLATION

Fasteners should be retorqued at about 25 miles. Retorquing must be done at any time the fasteners are removed. Write the specified torque requirement on owner's wheel documents and review the complete instructions with the customer.



Advise the customer to keep the documents with the vehicle owner's manual and pass it along to any new owner of the vehicle.

If wheel locks are installed, make sure the key is given to the customer. It is always a good idea to have the customer review, initial and sign the safety checklist provided by the wheel manufacturer.



Each set of Gorilla Locks comes with a key code label, complete with ordering information for replacement keys.

GORILLA POWER WRENCH



The telescoping handle, 21" fully extended, provides the leverage to remove even the tightest lug nuts with ease.

200% MORE TORQUE THAN A STANDARD LUG WRENCH

- Telescoping handle extends to 21 inches for maximum leverage
- Compacts to 14 inches for easy storage
- Hardened steel and precision constructed
- A perfect replacement for your standard lug wrench

PART NO. **1721** INCLUDES:

- **1/2" Power Wrench**

- **2 Dual Sockets:**

- 17mm
- 19mm (3/4")
- 21mm (13/16")
- 23mm (7/8")



Gorilla Power Wrench
kit includes a polybag case for convenient storage.

1/2" DRIVE

Works with all Gorilla Thin Wall Sockets



GORILLA™
AUTOMOTIVE PRODUCTS

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Part #GAG10