



Lug Nut Torque Specification

Make/Model	Year(s)	Torque (ft-lbs)
Acura		
MDX	2001-06	.80
MDX/ZDX	2007-13	.94
MDX	2014-15	.80
RDX	2007-15	.80
RL/RLX	2005-15	.94
SLX	1996-99	.87
TL	2009-14	.94
All Other Models	1990-2015	.80
Aston Martin		
DB7	1994-2004	.65-.75
DB9/Vantage	2005-07	.60/100*
DB9/DBS/Vantage (21mm)	2008-09	.60/133*
DB9/DBS/Vantage (22mm)	2008-09	.60/100*
DB9/DBS/Vantage	2010-15	.60/133*
Rapide/Virage	2010-15	.60/133*
Vanquish	2001-06	.60/100*
Vanquish	2014-15	.60/133*
Virage	1990-94	.70
*Torque to lower specification, then torque to higher specification		
Audi		
All Models	1990-97	.81
Cabriolet	1994-98	.81
Q3	2015	.88
Q5/SQ5	2009-15	.103
Q7	2007-15	.118
All Other Models	1998-15	.89
Avanti		
All Models	2001-07	.100
Bentley		
Arnage	1999-2001	.74
Arnage RL	2001-02	.74
Arnage	2002-09	.96-100

Azure	1996-2003	.45-50
Azure Le Mans	2001-02	.77-85
Azure	2006-10	.96-100
Brooklands	1993-98	.45-50
Brooklands	2008-10	.96-100
Continental GT/GTC	2003-15	.107
Continental R Le Mans/T Le Mans	2001-02	.77-85
Continental Flying Spur	2006-13	.107
Continental Supersports	2010-13	.107
Continental (All Other Models)	1990-2003	.45-50
Eight	1990-92	.45-50
Flying Spur	2014-15	.107
Mulsanne	1990-92	.45-50
Mulsanne	2011-15	.133
Turbo R	1990-98	.45-50

BMW		
2 Series	2014-15	.103
3 Series Sedan	2012-15	.103
3 Series Sports Wagon	2014-15	.103
4 Series	2014-15	.103
5 & 6 Series	2011-15	.103
7 Series	2002-15	.103
i3/i8	2014-15	.103
X1	2012-15	.88
X3/X4/X5/X6	2000-15	.103
All Other Models	1990-2015	.88

Buick		
Allure	2010	.110
Enclave	2008-15	.140
LaCrosse/Regal	2010-15	.110
All Other Models	1990-2015	.100

Cadillac		
Catera	1997-2001	.80
CTS	2008-12	.140
CTS	2013-15	.110
DeVille H.D. Special	1997-99	.140
Escalade	1999-2015	.140
SRX	2004-09	.100
SRX	2010-13	.110
SRX	2014-15	.140
XTS	2013-15	.110
All Other Models	1990-2015	.100

Chevrolet		
APV/Lumina APV	1990-96	.100
Astro	1990-2002	.100
Astro	2003-05	.140
Avalanche	2002-13	.140

Aveo/Aveo5	2004-10	81
Beretta	1987-96	100
Blazer	1990-91	88
Blazer	1992-94	120
Blazer	1995-97	95
Blazer	1998-2005	100
C/K 1500/2500/3500	1990-95	120
C/K 3500 (DRW)	1992-99	140
C/K 1500/2500/3500	1996-2000	140
Camaro	2010-11	140
Camaro (w/blue nuts)	2012	110
Camaro (w/silver nuts)	2012	140
Camaro	2013-15	110
Caprice	1991-96	100
Caprice	2011-14	140
Captiva Sport	2012-15	100
Cavalier	1982-2005	100
City Express	2015	72-94
Cobalt	2005-10	100
Colorado	2004-12	100
Colorado	2015	140
Corsica	1987-96	100
Corvette	1990-2015	100
Cruze	2008-15	100
Epica	2004-06	81
Equinox	2002-09	100
Equinox	2010-15	140
Express	1996-2015	140
G10/G20	1990-95	100
G10/G20/G30	1996	140
G30	1990-95	120
G1500/G2500	1990-95	100
G3500	1990-95	100
G3500 (DRW)	1993	140
G1500/G2500/G3500	1996	140
HHR	2006-11	100
Impala	2014-15	110
Impala Limited	2014-15	100
Impala SS	1994-96	100
Lumina	1992-2001	100
Malibu	2013-15	110
Metro	1998-2001	45
Monte Carlo	1995-2007	100
Optra	2004-07	66-84
Orlando	2012-14	100
Prism	1998-2002	76
R1500 Suburban	1990-91	100
R/V 2500 Suburban	1990-91	120
R/V 2500 Suburban (DRW)	1990-91	125
R/V 3500	1990-91	120

R/V 3500 (DRW)	1990-91	140
S10 Pickup	1990-91	80
S10 Pickup	1992-97	95
S10 Pickup	1998-2004	100
S10 Blazer	1990-91	80
S10 Blazer	1992-94	95
Silverado	1999-2015	140
Sonic	2012-15	100
Spark	2010-15	100
SS	2014-15	140
SSR	2003-06	100
Suburban	1992-95	120
Suburban	1996-2015	140
Tahoe	1995	120
Tahoe	1996-2015	140
Tracker	1998	60
Tracker	1999-2002	69
Tracker	2003-04	73
Trailblazer	2002-09	100
Traverse	2007-15	140
Trax	2013-15	100
Uplander/Venture	1997-2009	100
V1500 Suburban	1990-91	88
V1500 Suburban (w/alum wheels)	1990-91	100

Chrysler

300	2014-15	130
Aspen	2007-09	135
Crossfire	2004-08	81
LeBaron	1990	95
Sebring LX/LXi	1999-2000	65-80
Sebring LX/LXi Coupe	2001-03	65-80
All Other Models	1990-2015	85-115

Coda

All Models	2012-13	74
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Dodge

Avenger	1995-98	85-100
Avenger	1999-2000	65-80
Avenger	2008-14	85-115
B150/B250/B350	1990-94	85-110
B350 HD	1990-94	175-225
B1500	1995-98	80-110
B2500/B3500	1995-97	85-115
B2500/B3500	1998	85-115
B3500 HD	1995-97	175-225
D150/W150	1990-93	95
D250/W250	1990-93	100
D250 HD/W250 HD	1990-93	200
D350/W350	1990-93	200
D350/W350 (DRW)	1990-93	325

Caliber	2007-12	100
Caravan/Grand Caravan	1990-2015	85-115
Challenger/Charger	2006-15	85-115
Colt	1990-94	65-80
Colt Vista	1990-91	50-57
Colt Vista (w/aluminum wheels)	1990-91	65-80
Dakota	1990-93	85-110
Dakota	1994-2004	85-115
Dakota	2005-10	135
Dart	2013-15	85-115
Daytona/Dynasty	1990-93	95
Durango	1998-2003	85-115
Durango	2004-09	135
Durango	2011-15	110
Intrepid	1993-2004	85-115
Journey	2009-15	85-115
Magnum	2005-08	85-115
Monaco	1990-92	54-72
Monaco (1/2" studs)	1990-92	80-100
Monaco (w/aluminum wheels)	1990-92	80-100
Neon	1995-2005	85-115
Nitro	2007-11	95
Omni/Shadow/Spirit	1990-95	85-115
Power Ram 50/Ram 50	1990-93	87-101
Ram 1500	1994-2001	80-110
Ram 1500	2002-08	135
Ram 1500	2009-10	130
Ram 1500 Van	1999-2001	85-115
Ram 1500 Van	2002-03	80-110
Ram 2500	1994-2001	120-150
Ram 2500	2002-10	135
Ram 2500 Power Wagon	2006-10	155
Ram 2500 ST	2004	155
Ram 2500/3500 Van	1999-2003	120-150
Ram 3500	1994-2001	130-160
Ram 3500	2002	145
Ram 3500	2003-10	135
Ram 3500 (DRW)	2003-10	145
Ram 3500 ST (SRW only)	2003-04	155
Ramcharger	1990-93	105
Stealth	1991-96	85-100
Stratus Sedan	1995-2006	85-115
Stratus Coupe	2001-05	65-80
SX 2.0	2003-05	85-115
Viper	1992-2015	80-100

Eagle

Premier	1990-92	54-72
Premier (w/aluminum wheels)	1990-92	80-100
Summit	1990-96	65-80

Talon	1990-98	85-100
Vision	1993-97	95

Ferrari

348	1990-95	72
360	2000-05	74
456/512	1992-2003	86
458/California/F12/FF/SA	2009-15	74
550/575	1997-2002	100
575 M/Superamerica	2003-05	74
599/612/F430	2005-11	74
Enzo	2003-04	481.5
F40/F50	1990-97	468
F355/F512M	1994-99	86
Mondial t/Testarossa	1990-93	72

Fiat

500	2012-15	75
500 (w/steel wheels)	2012-13	63
500 (w/steel wheels)	2014-15	66
500L	2014-15	95

Ford

Aerostar/Bronco	1990-97	100
Aspire	1994-97	65-87
C-Max	2013-15	100
Contour	1995-2000	94
Country Squire	1990-91	85-105
Crown Victoria	1990-2003	85-105
Crown Victoria	2004-11	100
E-150	1990-2006	100
E-150	2007	140
E-150	2008-14	140-150
E-250/E-350	1990-2007	140
E-250/E-350	2008-14	140-150
Edge/Escape	2001-15	100
Escort	1990-2003	65-87
Escort (w/aluminum wheels)	2002-03	74-100
Excursion	2000-05	165
Expedition	1997-99	100
Expedition (19mm hex)	2000	100
Expedition (21mm hex)	2000	150
Expedition	2001-15	150
Explorer	1991-2015	100
F-150	1990-99	100
F-150 (19mm hex)	2000	100
F-150 (21mm hex)	2000	150
F-150	2001-15	150
F-150 HD	2001-03	100
F-150 Heritage HD	2004	100
F-250	1990-96	140

F-250	1997-99	100
F-250 HD	1997	140
F-350	1990-97	140
F-250/F-350 SuperDuty	1999-2004	150-165
F-250/F-350 SuperDuty	2005-08	150
F-250/F-350 SuperDuty	2009-15	165
Festiva	1990-93	65-87
Fiesta	2011-13	98
Fiesta	2014-15	100
Five Hundred/Freestyle	2005-07	100
Flex/Freestar	2004-15	100
Focus	2000-05	94
Focus/Fusion	2006-15	100
GT	2005-06	111
Mustang	1990-2004	85-105
Mustang	2005-14	100
Mustang	2015	150
Police Interceptor Sedan	2013-14	110
Police Interceptor Utility	2013-14	110
Probe	1990-97	65-87
Ranger	1990-2011	100
Taurus	1990-2003	85-105
Taurus	2004-15	100
Taurus X	2008-09	100
Tempo/Thunderbird	1990-97	85-105
Thunderbird	2002-05	100
Transit Connect	2010-11	66
Transit Connect	2011.5	100
Transit Connect	2012-15	100
Windstar	1995-2003	100

Geo

Metro	1990-97	45
Prizm	1990-97	76
Storm	1990-93	86
Tracker	1990-97	60

GMC

Acadia	2007-15	140
C/K 1500/2500/3500	1990-95	120
C/K 3500 (DRW)	1992-99	140
C/K 1500/2500/3500	1996-2000	140
Canyon	2004-12	100
Canyon	2015	140
Envoy	2002-09	100
G10/G20	1990-95	100
G10/G20/G30	1996	140
G30	1990-95	120
G1500/G2500	1990-95	100
G3500	1990-95	100
G3500 (DRW)	1993	140

G1500/G2500/G3500	1996	140
Jimmy	1990-91	88
Jimmy	1992-98	95
Jimmy	1999-2005	100
Jimmy Envoy	1998-2000	100
R1500 Suburban	1990-91	100
R/V 2500 Suburban	1990-91	120
R/V 2500 Suburban (DRW)	1990-91	125
R/V 3500	1990-91	120
R/V 3500 (DRW)	1990-91	140
S15 Jimmy	1990	85
S15 Jimmy 4x2	1991	80
S15 Jimmy 4x4	1991	100
Safari	1990-2002	100
Safari	2003-05	140
Savana	1996-2015	140
Sierra	1999-2015	140
Sonoma	1990-91	80
Sonoma	1992-97	95
Sonoma	1998-2004	100
Suburban/Yukon	1992-95	120
Suburban/Yukon	1996-2015	140
Syclone	1991	100
Terrain	1996-2015	140
Typhoon	1992-93	100
V1500 Suburban	1990-91	88
V1500 Suburban (w/aluminum wheels)	1990-91	100

Honda

Odyssey/Ridgeline	2005-15	94
Passport	1994-2002	87
Pilot	2009-15	94
All Other Models	1990-2015	80

Hummer

H1	1992-2006	110
H1 (1 piece steel wheel)	1994-2000	140
H2	2003-09	140
H3/H3T	2006-10	100

Hyundai

All Models	1990-2015	65-80
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Infiniti

JX35/QX60	2013-15	83
QX4	1997-2003	87-108
QX56/QX80	2004-15	98
All Other Models	1990-2015	80

Isuzu

Amigo	1990-94	58-87
Amigo (w/aluminum wheels)	1990-94	80-94

Amigo	1998-2000	87
Ascender	2003-08	100
Axiom	2002-04	97
Hombre	1996-2000	95
i-280/i-290/i-350/i-370	2006-08	100
Oasis	1996-99	80
Pickup	1990-95	58-87
Pickup (w/aluminum wheels)	1990-95	80-94
Rodeo	1991-2004	65
Rodeo (w/aluminum wheels)	1991-2001	87
Trooper	1990-92	58-87
Trooper	1993-2002	87
VehiCROSS	1999-2000	65
VehiCROSS (w/aluminum wheels)	1999-2000	87
VehiCROSS	2001	87

Jaguar

F-Type	2014-15	92
S-Type	2000-08	95
XF/XFR/XFR-S/XJ/XJR	2009-15	95
XK/XKR/XKR-S	2007-15	95
All Other Models	1990-2009	75

Jeep

Cherokee/Wagoneer	1990	75
Cherokee	1991-93	85-110
Cherokee	1994-2001	85-115
Cherokee	2014-15	100
Comanche	1990-92	75
Commander	2006-10	95
Compass/Patriot	2007-15	100
Grand Cherokee	1993	85-110
Grand Cherokee	1994-2004	85-115
Grand Cherokee	2005-10	95
Grand Cherokee	2011-15	110
Grand Wagoneer	1990-91	75
Grand Wagoneer	1993	85-110
Liberty	2000-04	85-110
Liberty	2005-12	95
Wrangler	1990-91	80
Wrangler/TJ	1992-2004	85-110
Wrangler/TJ	2005-15	95

Kia

Amanti	2004-09	65-80
Borrego	2009-11	65-80
Cadenza/Forte/K900/Soul	2010-15	65-80
Magentis	2007-10	65-80
Magentis/Optima	2001-06	66-81
Optima EX/LX	2006.5	65-80
Optima	2007-15	65-80
Rio	2001-05	65-87

Rio/Rio5	2006-15	65-80
Rondo	2007-15	65-80
Sedona	2002-03	65-80
Sedona	2004-05	80-101
Sedona	2006-15	65-80
Sephia	1993-2001	65-87
Sorento	2003-09	65-87
Sorento	2011-15	65-80
Spectra	2000-04	65-87
Spectra EX/LX/SX/Spectra5	2004-09	65-80
Sportage	1995-2002	65-87
Sportage	2005-10	66-81
Sportage	2011-15	65-80

Land Rover

Defender/Discovery	1993-98	90-95
Discovery	1999-2004	103
Freelander	2002-05	84
LR2/Discovery	2008-15	98
LR3/LR4	2005-15	103
Range Rover	1990-95	90-95
Range Rover SE	1995-2001	84
Range Rover	1996-2002	84
Range Rover	2003-12	103
Range Rover Evoque	2012-15	98
Range Rover Sport	2011-15	98
Range Rover	2013-15	98

Lexus

GX460/GX470	2003-14	83
LFA	2012	81
LS460/LS600h	2007-15	103
LX470/LX570	1998-2015	97
All Other Models	1990-2015	76

Lincoln

Aviator	2003-05	100
Blackwood	2002	135-165
LS/Zephyr	2000-06	100
MKC/MKT/MKX	2007-15	100
MKS/MKZ	2007-15	100
Mark LT	2006-08	150
Navigator	1998-99	100
Navigator (19mm hex)	2000	100
Navigator (21mm hex)	2000	150
Navigator	2001-15	150
Town Car	2004-11	100
All Other Models	1990-2003	85-105

Lotus

Elan	1990-92	80
Elise/Evora/Exige	2005-14	76
Esprit	1990-2004	72

Maserati

All Models	1990-91	75
All Models	2002-03	90
All Models	2004-05	74
All Models	2006-15	72

Maybach

All Models	2003-12	110
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Mazda

B2200/B2600	1990-93	65-87
B2200/B2600 (w/chrome steel wheels)	1990-93	87-108
B2300/B3000/B4000	1994-2010	100
B2300/B3000/B4000 (w/chrome steel wheels)	1994-2010	87-108
B2500	1998-2001	100
CX-5/CX-9	2007-15	80-108
CX-7	2007-12	65-87
Mazda3/3 Sport/6	2014-15	80-108
Mazda5	2006-15	65-87
MPV	1990-98	66-86
MPV	2000-05	79-108
Millenia	1995-2002	65-94
Navajo	1991-94	100
Tribute	2001-04	84-114
Tribute	2005-11	100
All Other Models	1990-2015	65-87

McLaren

All Models	2012-15	96
Mercedes-Benz		
B250/C/C63 AMG	2008-15	96
CL	1998-2014	110
CLA/CLK/CLS/E	2003-15	96
GLA250/GLA45 AMG	2015	96
S/SD/SEC	1992-2015	110
SL/SLR/SLS	2003-15	96
SLK	2012-15	96
Sprinter 2500 (Alloy)	2003-15	126-140
Sprinter 2500 (Steel)	2003-15	170-184
Sprinter 3500	2003-15	126-140
All Other Car Models	1990-2011	81
All Other Truck Models	1998-2015	110

Mercury

Capri	1991-94	67-88
Grand Marquis	2004-11	100

Marauder	2003-04	95
Milan/Montego	2005-11	100
Mystique	1995-2000	94
Sable	2008-09	100
Tracer	1991-99	65-87
Villager	1993-2002	80
All Other Car Models	1990-2005	85-105
All Other Truck Models	1997-2011	100

Mini

Cooper	2002-06	88
Cooper (M12 bolt)	2007	88
Cooper (M14 bolt)	2007	103
Cooper	2008-15	103

Mitsubishi

3000GT	1991-99	87-101
Eclipse	1990-96	87-101
Endeavor/Outlander/RVR	2003-15	65-80
Mighty Max/Van	1990-96	87-101
Montero	1990-2006	72-87
Montero Sport	1997-2004	72-87
Montero Sport (w/steel wheels)	1997-99	87-101
Precis	1990-94	51-58
Precis (w/aluminum wheels)	1990-94	57-72
Raider	2006-09	125-145
All Other Models	1990-2015	65-80

Nissan

Altra EV	2000-01	80
Armada/Titan	2004-15	87-108
GT-R	2009-15	97
Juke/Rogue	2008-15	72-87
MicraVersa	2007-15	83
Murano	2003-14	80
Murano	2015	83
NV200	2013-15	72-94
NV1500/2500/3500	2012-15	138
Pathfinder	1990-2012	87-108
Pathfinder	2013-15	83
Pickups (DRW)	1990-91	166-203
Pickups	1990-2015	87-108
Quest	1993-2015	72-87
Van	1990-91	87-108
X-Trail	2005-06	80
Xterra	2000-01	87-108
Xterra	2002-15	98
All Other Models	1990-2015	72-87

Oldsmobile

All Models	1990-2004	100
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Plymouth

Acclaim/Sundance	1990-95	95
Breeze	1996-2000	85-115
Colt	1990-94	65-80
Colt Vista	1990-94	50-57
Colt Vista (w/aluminum wheels)	1990-94	65-80
Horizon	1990	95
Laser	1990-94	85-100
Neon	1995-2001	85-115
Prowler	1997-2001	100
All Other Models	1990-2000	85-115

Pontiac

Firefly	2000	45
G3	2009-10	81
G8	2008-09	125
LeMans	1990-93	65
Vibe	2003-10	76
Wave/Wave5	2005-08	81
All Other Models	1990-2010	100

Porsche

911 (center lug only)	2010-13	370
911 Carrera/Boxster	2013-15	118
911 Carrera (991 only)	2012	118
911 GT3	2015-15	444
918 Spyder	2015	480
Carrera GT	2004-06	407
Cayenne	2003-15	118
Cayman	2012-15	118
Panamera	2010-11	118
Panamera	2012-15	133
All Other Models	1990-2013	96

RAM

1500	2011-15	130
1500 HD	2012	135
2500/3500	2011-15	135
2500 Power Wagon	2011-15	155
3500 (DRW)	2011-15	145
C/V	2012-15	85-115
Dakota	2011	135
ProMaster	2014-15	135-145

Rolls Royce

Park Ward/Silver Seraph	1997-2002	74
Phantom/Ghost/Wraith	2004-15	103
All Other Models	1990-2002	45-50

Saab

9-2X	2005-06	72
9-3/9-3X	1999-2011	80

9-4X	2011	110
9-5	1999-2009	80
9-7X	2005-09	100
900	1990-93	80-90
900	1994	78-96
900	1995-98	67-81
900 (w/alloy wheels)	1995-98	78-96
9000	1990-98	80-90

Saturn

Astra	2008-09	81
L/LS/LW Series	2000-05	92
Outlook	2007-10	140
Relay/Vue	2002-10	100
All Other Models	1991-2010	100

Scion

FR-S	2013-15	89
All Other Models	2004-15	76

Smart

All Models	2005-15	81
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SRT

Viper	2013-14	80-100
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Subaru

B9 Tribeca/Tribeca	2006-10	74-89
Baja	2003-04	66-81
Baja	2005-06	74-89
BRZ/XV Crosstrek	2013-15	89
Forester	1998-2006	58-72
Forester	2007-13	74
Forester	2014-15	89
Impreza	1993-2005	58-72
Impreza	2006-15	74-89
Justy/Loyale	1990-94	58-72
Legacy/Outback	1990-2004	58-72
Legacy/Outback	2005-09	74-89
Legacy/Outback	2010-15	89
SVX	1992-97	74-89
Tribeca	2011-14	89
WRX	2013-15	74-89
XT	1990-91	58-72

Suzuki

Aerio/Esteem/SX4	1995-2013	62
Equator	2009-12	98
Forenza/Reno	2004-08	66-92
Grand Vitara	1999-2000	69
Grand Vitara	2001-13	73
Kizashi	2010-13	104

Samurai	1990-91	37-57
Samurai	1992-95	58-79
Sidekick	1990-98	58-79
Swift	1990-94	37-50
Swift	1995-2001	48
Swift+/Verona	2004-09	81
Vitara	1999-2000	69
Vitara	2001-04	73
X-90	1996-98	69
XL-7	2002-06	73
XL-7	2007-09	100

Tesla

Model S	2012-15	129
Roadster	2008-12	77

Toyota

4Runner	1990-98	76
4Runner	1999-2011	83
4Runner	2012-15	81
FJ Cruiser	2007	83
FJ Cruiser	2008-14	85
Highlander	2001-15	76
Land Cruiser	1990-93	116
Land Cruiser	1994-97	108
Land Cruiser (w/aluminum wheels)	1994-97	76
Land Cruiser	1998-2015	97
Pickup 4x2	1990-95	101
Pickup 4x4	1990-95	76
Pickup (DRW)	1990-95	170
Previa	1991-97	76
RAV4	1996-2015	76
Sequoia	2001-07	83
Sequoia	2008-15	97
Sienna	1998-2015	97
T100	1993-98	76
Tacoma	1995-2015	83
Tundra	2000-06	83
Tundra	2007-15	97
Tundra (w/steel wheels)	2007-15	154
Venza	2009-15	76
All Other Models	1990-2015	76

Volkswagen

Beetle	1998-2010	89
EuroVan	1993-96	118
EuroVan	1997-2003	133
Passat	2012-15	103
Routan	2009-14	85-115
Tiguan	2009-15	103
Tiguan 4Motion	2009-15	88
Touareg	2004-10	118
Touareg	2011-15	133
Vanagon	1990-91	123
All Other Models	1990-98	81
All Other Models	1999-2015	89

Volvo

240/740/760/780/940/960	1990-97	63
850	1993-97	81
C30/C70/S40/V40/V50	1998-2010	81
C30/C70/S40/V40/V50 (w/lug nut w/fixed washer)		
	2010	96
C30/C70/S40/V50	2011-13	96
S60/S80	1999-2015	103
S70	1998-2000	81
S90/V90	1997-98	63
V70	1998-2000	81
V60/V70/XC70	2001-15	103
All Other Models	2003-15	103