

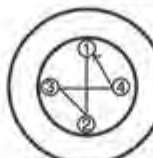
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WHEEL TORQUE EXTENSION CHART

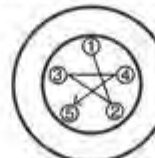
Name	Year	Torque Ft./Lb.	Letter	Name	Year	Torque Ft./Lb.	Letter
CARS							
ACURA							
NSX	17-20	125	I	Sprint	85-88	50	S
RL	05-12	94	NN	V5	14-17	140	O
RLX	14-20	94	NN	Vega	76-80	80*	E
TL	09-14	94	NN	Volt	11-19	100	C
All other models	86-20	80	E				
ALFA ROMEO							
4C	15-20	72	OO				
Giulia	17-20	89	NN				
AMERICAN MOTORS							
All models	70-87	75	OO				
AUDI							
All models	98-20	90	NN				
All models	78-97	80	E				
BMW							
1 Series	08-13	90	NN				
2 Series	15-20	103	C				
3 Series	12-20	103	C				
3 Series	06-11	90	NN				
3 Series	84-05	80	E				
320i w/wheel bolts	77-83	80*	E				
4 Series	14-20	103	C				
5 Series	11-20	103	C				
5 Series	08-10	90	NN				
5 Series	82-07	80	E				
528i	79-81	80*	E				
6 Series	12-19	103	C				
6 Series	07-10	90	NN				
6 Series	04-06	80	E				
6 Series	80-89	80	E				
7 Series	02-20	103	C				
7 Series	78-01	80	E				
8 Series	19-20	103	C				
8 Series	91-97	80	E				
i3	14-20	103	C				
i8	15-20	103	C				
M2	16-20	103	C				
M3	14-19	103	C				
M4	14-20	103	C				
M5	08-20	103	C				
M6	06-19	103	C				
M7	17-19	103	C				
M8	19-20	103	C				
Z4	19-20	103	C				
Z4	09-16	90	NN				
Z3/Z4	96-08	80	E				
*w/wheel nuts		60	D				
BUICK							
Cascade	16-19	100	C				
Century	82-04	100	C				
Century	76-81	80*	E				
LaCrosse	17-19	100	C				
LaCrosse	10-16	110	C				
LaCrosse	05-09	100	C				
LeSabre	86-05	100	C				
LeSabre	76-85	80**	E				
Lucerne	06-10	100	C				
Park Avenue	85-05	100	C				
Reatta	88-91	100	C				
Regal Sportback & TourX	18-20	100**	C				
Regal	11-17	110	C				
Regal	87-04	100	C				
Regal	78-86	80*	E				
Riviera	76-99	100	C				
Electra	76-99	100	C				
Estate Wagons	76-99	100	C				
Road Master	92-96	100	C				
Skyhawk	82-89	100	C				
Skyline	80-88	100	C				
Somerset Regal	85-87	100	C				
Verano	12-17	100	C				
*w/aluminum wheels		90	NN				
*w/1/2" studs		100	C				
*RR Model							
CADILLAC							
Alante	88-94	100	C				
ATS	13-19	100	C				
ATS-V	17-19	140	C				
ATS-V	16	110	C				
Brougham	77-04	100	C				
Calais	77-04	100	C				
Catera	97-01	80	E				
CT4	20	100	C				
CT5	20	140	C				
CT6	16-20	110	C				
CTS/CTS-V	17-19	140	C				
CTS/CTS-V	14-16	140	C				
CTS/CTS-V	09-13	140	C				
CTS/CTS-V	03-08	100	C				
CTS/CTS-V	77-05	100	C				
Deville	77-05	100	C				
DTS	06-11	100	C				
ELR	14-16	100	C				
Fleetwood	77-96	100	C				
Seville	76-04	100	C				
STS	09-11	100	C				
XLR	04-09	100	C				
XTS	13-15	110	C				
All other models	83-02	100	C				
CHEVROLET							
Aveo	11	100	C				
Aveo	04-10	80	E				
Beretta	87-96	100	C				
Bolt EV	17-20	100	C				
Camaro	16-20	140	C				
Camaro	13-15	110	C				
Camaro	10-11	140	C				
Camaro	89-02	100	C				
Camaro	78-88	80*	E				
Caprice	91-96	100	C				
Caprice	77-90	80**	E				
Cavalier	82-04	100	C				
Celebrity	82-90	100	C				
Chevelle	76-88	80**	E				
Chevette	76-87	80	E				
Citation	80-86	100	C				
Cobalt	05-10	100	C				
Corsica	87-96	100	C				
Corvette	20	140	C				
Corvette	76-19	100	C				
Cruze	11-19	100	C				
Epica	04-06	79	E				
Impala	14-20	110	C				
Impala Limited	14-16	100	C				
Impala	00-13	100	C				
Impala	77-90	80**	E				
Impala Wagon	77-90	100	C				
Lumina	90-01	100	C				
Malibu	16-20	100	C				
Malibu Limited	16	110	C				
Malibu	13-15	110	C				
Malibu & Maxx	97-12	100	C				
Malibu	76-88	80**	E				
Malibu & Wagon	76-86	80**	E				
Monte Carlo	96-07	100	C				
Monte Carlo	76-88	80**	E				
Monza	76-80	80*	E				
Nova	85-89	75	OO				
Optra	04-06	80	E				
Prizm	99-02	76	OO				
Sonic	12-20	100	C				
Spark	15-20	100	C				
Spark	13-14	92	NN				
Spectrum	85-88	65	F				

WARNING: WHEN USING TORQUE EXTENSIONS DO NOT EXCEED 90-100 PSI. (OPERATING PRESSURE AT AIR TOOL INLET). WHEN USING IMPACT WRENCH DO NOT EXCEED 250 FT./LBS. WEAR SAFETY GOGGLES WHEN USING TORQUE EXTENSIONS. DO NOT HOLD TORQUE EXTENSIONS IN HAND WHILE IN USE. NOTE: MUST USE WITH CALIBRATED IMPACT GUN, NOT FOR WHEEL REMOVAL. DO NOT LUBRICATE LUG NUT THREADS BEFORE TORQUING. FOR ORIGINAL EQUIPMENT WHEELS, IF CAR IS NOT LISTED, PLEASE CONSULT THE OWNERS MANUAL FOR CORRECT TORQUE. NOTE: IMPROPER TORQUE CAN CAUSE DISTORTION, ALIGNMENT PROBLEMS AND FATIGUE CRACKS. ONCE CORRECT TORQUE IS ACQUIRED, ANY EXCESS TORQUE WILL BE ABSORBED BY THE TORQUE EXTENSIONS. DO NOT RE-TORQUE ONCE SPECIFIED TORQUE IS REACHED. USE WITH 1/2" DRIVE IMPACT WRENCH ONLY.

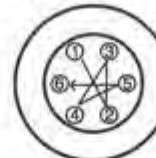
NOTE - Check all parts, including wheels, studs and mounting faces of hub and wheels for dirt, rust or damage. Use a wire brush to remove dirt and rust. Replace any damaged parts, then run the lug nuts down until they are snug at the wheel. Now you are ready to use the proper torque socket. Careless installation of wheels on a vehicle is a major cause of tire and wheel problems. Use only the correct sizes and types of studs and nuts. Tighten the nuts following the criss-cross sequence shown below. Failure to tighten nuts in the criss-cross sequence will cause misalignment of the wheel. Continue this process until all nuts are tightened to the torque specified in the chart below. NOTE: Every possible precaution has been taken in compiling the information contained in this chart. Neither the manufacturer nor supplier can be held responsible for damage which might occur due to errors in this chart or changes in vehicle manufacturers specifications. Any changes made by the vehicle manufacturer after March, 2020 and any new 2020 vehicles introduced after March, 2020 are not covered by this chart. Consult the owners manual, the vehicle manufacturer or the most recent service bulletin to verify data. Printed in the USA. MatcoECC20



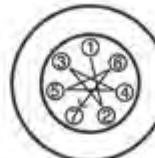
4-NUT WHEEL



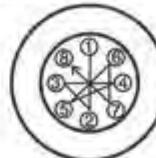
5-NUT WHEEL



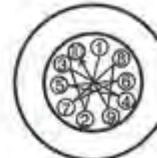
6-NUT WHEEL



7-NUT WHEEL



8-NUT WHEEL



10-NUT WHEEL

Name	Year	Torque Ft./Lb.	Letter	Name	Year	Torque Ft./Lb.	Letter	Name	Year	Torque Ft./Lb.	Letter	Name	Year	Torque Ft./Lb.	Letter
CHRYSLER															
Classic Hatchback w/1.5L engine (5-door)	17-20	80*	E	C Class	15-17	96*	C	Firebird	89-02	100	C	C30/C70/S40/V50			
Civic all models	73-83	58	D	C Class	08-14	96	C	Firebird	76-88	80*	E	w/high nut w/fixed washer	05-13	96	C
Prelude all models	79-91	80	E	C Class	95-07	80	E	G3	09	88	MM				
All other models	84-20	80	E	CL	94-14	110	K	G5	07-09	100	C	C30/C70/S40/V50			
w/2.0L engine Type R Hatchback (5-door)	94	NN		CLA	20	96	C	G6	05-09	100	C	w/lockable wheel nut			
HYUNDAI															
Accent	18-20	90	NN	CLA	14-19	96	C	G8	08-09	125	I		05-13	81	E
Elantra	17-20	90	NN	CLK	98-10	80	E	GrandAm	85-04	100	C	C70	00-04	100	C
Equus	11-16	80	E	CLS	19-20	111*	C	Grand Prix	88-08	100	C	S40	99-03	81	E
Excel	85-89	60*	D	CLS	06-18	96	C	Grand Prix	76-87	80*	MM	560/CC/Description	02-20	103	C
Genesis Sedan/Coupe	09-16	80	E	E Sedan/Wagon/AMG 43/AMG 63/Cabrio/Convertible/Coupe	18-20	111*	C	GTO	04-06	100	C	560	01	81	E
Ionix	17-20	90	NN	E Sedan/Wagon/AMG 43	17	111*	C	J2000/2000	82-94	100	C	570	00	100	C
Sonata	18-20	90	NN	E Cabrio/Convertible/Coupe	17		C	LeMans	89-93	65	F	576	96-99	81	E
Tiburon	97-08	80	E	E Class	03-16	96	C	Panisiene	83-86	80*	E	580	00-16	103	C
Veloster/N	19-20	90	NN	E Class	95-02	80	E	Phoenix	80-84	100	C	590/V6/V8	17-20	103	C
Veloster	12-17	80	E	S Class	18-20	111*	C	Pursuit	05-06	100	C	V40	99-04	81	E
All other models	90-17	80	E	S Class	92-17	110	K	Safar wagon	87-89	100	C	V60/CC	15-20	103	C
*w/aluminum wheels	80			SL	03-20	96	C	Solstice	06-09	100	C	V70/XC70	00-16	100	C
INFINITI															
M35/45	06-10	80	E	SL Class	94-02	80	E	Sunbird	83-94	100	C	V70	98-99	81	E
Q40	15	80	E	SLC	17-19	96	C	Sunfire	76-80	80	E	All other models	88-88	63	F
Q50	14-20	80	E	SLK	12-16	96	C	T-1000	81-87	80	C	PORSCHE			
Q60	14-20	80	E	SLK Class	98-11	80	E	Vibe	03-09	80	C	911	10-23		
Q70	14-19	80	E	All other models	76-00	80	E	*w/aluminum wheels		90	NN	924 w/o L/RSC	77-83	80*	E
All other models	90-15	80	E				*w/V12		100		Boxster	13-19	118	I	
ISUZU															
Impulse	83-92	87	NN	*NOTE: This vehicle requires a 2-step torquing process. Stage 1 - Torque the wheel bolts with either a calibrated hand torque wrench, torque socket or torque extension to 50 ft./lbs. (80 N.m). Stage 2 - Torque the wheel bolts with ONLY a calibrated hand torque wrench to the specified tightening torque listed.											
I Mark	87-89	65*	F	MERCUY											
I Mark	86	90	NN	Solocat	76-80	100	C	Capri	91-94	80	E	Capri	87-88	100	C
I Mark (fwd)	85	50*	S	Capri	87-88	100	C	Cougar	99-02	95	F	Cougar & XR7	87-96	100	C
I Mark (rwd)	82-84	50*	F	Cougar	87-96	100	C	Cougar & XR7w/2"	87-89	100	C	Grand Marquis	83	100	C
Stylus	91-93	87	NN	Cougar & XR7	87-96	100	C	Lynx/LN7	84-87	100	C	Lynx/LN7	82-83	80	E
*w/aluminum wheels	87			Cougar & XR7w/2"	87-89	100	C	Milan	06-10	100	C	Monte Carlo & Zephyr	76-83	100	C
JAGUAR															
F-Type	14-20	92	NN	Grand Marquis	83	100	C	Monte Carlo	05-07	100	C	Mystique	99-00	90	NN
S-Type	00-08	95	NN	Lynx/LN7	84-87	100	C	Mystique	98	85	E	Mystique	95-97	85	F
XE	17-20	92	NN	Lynx/LN7	82-83	80	E	Sable	85-09	100	C	Topaz	84-96	100	C
XF	08-20	92	NN	Milan	06-10	100	C	Topaz	84-96	100	C	Tracer	87-89	80	E
XJ	10-19	92	NN	Monte Carlo & Zephyr	76-83	100	C	All other models	84-10	100	C	MERKUR			
XJ Series	03-08	65	F	Monte Carlo	05-07	100	C	Scorpio	88-89	60	D				
XJ Series	89-02	65	F	Mystique	99-00	90	NN	Scorpio	85-89	80	E				
XX Series	08-11	92	NN	Mystique	95-97	85	F	MINI							
XX Series	06-07	75	OO	Sable	85-09	100	C	Cooper/Clubman/Countryman/Paceman/S	08-20	103	C				
XX Series	97-05	65	F	Topaz	84-96	100	C	Cooper 12mm bolt	07	88	NN				
X-Type	02-08	80*	D	Tracer	87-89	80	E	Cooper 14mm bolt	07	103	C				
*w/steel wheels	80			All other models	84-10	100	C	Cooper	02-06	88	NN				
JEEP/EALE															
Medallion	88	63	F	MITSUBISHI											
Premier/Monaco	83-92	65*	F	3000GT	90-99	100	C	Eclipse	89-94	100	C				
Summit	89-96	80	E	Eclipse	89-94	100	C	i-MiEV	12-17			Lancer/Evo	02-17	80	E
Talon	90-98	100	C	i-MiEV	12-17			Mirage/G4	14-20	75	OO	All other models	87-17	80	E
Vision	93-97	95	NN	Lancer/Evo	02-17	80	E	All w/aluminum wheels	84-86	80	E	All w/steel wheels	83-84	60	D
*w/aluminum wheels	80			Mirage/G4	14-20	75	OO	All w/aluminum wheels	84-86	80	E	All w/aluminum wheels	83	60	D
KIA															
Amanti	04-09	75	OO	All other models	87-17	80	E	Cooper	02-06	88	NN	NISSAN			
Cadenza	17-19	90	NN	All w/steel wheels	83-84	60	D	Cooper	02-06	88	NN	200SX	86-89	100	C
Cadenza	14-16	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	GT-R	09-20	97*	C
Forx	17-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	All other models	86-20	83	E
Forx	10-16	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	All models	78-85	60	D
K-900	15-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	*NISMO models	114		X
K-900	15-18	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	OLDSMOBILE			
Miro/EV	17-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Achieva	92-99	100	C
Optima	17-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Alero	99-04	100	C
Optima	01-16	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Aurora	95-03	100	C
Rio	18-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Calais	86-97	80	E
Rio & Wagon	01-17	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Calais	85	100	C
Rondo	17	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Cutlass	76-88	80	E
Rondo	13-16	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Cutlass	83	80***	C
Rondo	07-10	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Cutlass Supreme	86	80	C
Sephia	93-01	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Cutlass Supreme	85	100	C
Soul	18-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Delta 88	77-93	80*	E
Soul EV	20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Delta 98	77-93	100**	E
Soul EV	18-19	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Delta 98 Custom Cruiser	77-93	100**	E
Soul/EV	10-17	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Starfire	76-80	80	E
Spectra	00-09	75	OO	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	Toronado	79-92	80	E
Stinger	18-20	90	NN	All w/aluminum wheels	84-86	80	E	Cooper	02-06	88	NN	All other models	85	80	E
LEXUS															
LC	18-20	103	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
LFA	12-17			All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
LS	07-20	103	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
All other models	90-20	76	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
LINCOLN															
Continental	17-20	162	NN	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
Continental	00-02	95	NN	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
LS	00-06	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MKS	09-16	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MKZ	17-20	150	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MKZ	06-16	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MKZ Hybrid/Energ	w/12mm bolt	16	100	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MKZ Hybrid/Energ	w/14mm bolt	16	100	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
All other models	77-11	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
Zephyr	06	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MASERATI															
Coupe	02-06	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
Ghibli	13-20	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
GranCabrio	11-16	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
GranSport	04-07	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
GranSport Spyder	06-07	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
GranTurismo	07-20	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
Spyder	02-06	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
Quattroporte	03-20	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
All models	90-01	75	OO	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MAZDA															
3/3sport	14-20	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
6	13-20	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MX-5 Miata	16-20	100	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
All other models	76-15	80	E	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
MERCEDES BENZ															
AMG 4 door	19-20	111*		All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
AMG GT coupe	16-20			All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
A Class	19-20	96*	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
B Class	14-17	96	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models	84-00	100	C
C Class	19-20	96*	C	All other models	84-00	100	C	Cooper	02-06	88	NN	All other models			