

VEHICLE SPEC SHEET. TOURING CAR CLASS AND SPORTSMAN

Rev 4/15/2022

The following are eligible for TC and SP.

<u>Model</u>	<u>Years</u>	<u>Engine</u>	<u>Wheelbase, cm</u>	<u>Comments</u>	<u>Traqmate Aero Factor</u>	<u>Traqmate tire friction factor</u>
Acura RSX	2002-2008	K20A	257.0	Trans ratios US: 1st 3.266, 2nd 2.130, 3rd 1.517, 4th 1.147, 5th .921, 6th .738. JDM: 1st 3.266, 2nd 2.130, 3rd 1.517, 4th 1.212, 5th .972, 6th .780. Final drive: 4.388 or 4.764 or 5.062. The transmission/final drive must match the engine type (i.e. JDM and US)	0.701	0.047
Acura RSX	2002-2008	K224	257.0	Trans ratios US: 1st 3.266, 2nd 2.130, 3rd 1.517, 4th 1.147, 5th .921, 6th .738. JDM: 1st 3.266, 2nd 2.130, 3rd 1.517, 4th 1.212, 5th .972, 6th .780. Final drive: 4.388 or 4.764 or 5.062.	0.701	0.047
Acura TSX	2004-2005	K24	266.0	Trans ratios: 1st 3.267, 2nd 1.880, 3rd 1.355, 4th 1.028, 5th .825, 6th .659. Final drive: 4.760. Alternate transmission is K20 6 speed with ratios: 1st 3.266, 2nd 2.13, 3rd 1.517, 4th 1.147, 5th 0.921, 6th .738. Final drive 4.389 or 4.764.		0.047
Acura ILX	2013	K24Z7	267.0	Trans ratios: 1st 3.267. 2nd 2.040, 3rd 1.429. 4th 1.073. 5th 0.830. 6th 0.647. Final Drive Ratio 4.765.		0.047
BMW M3 E36	1995-1999	S52B32 3.2L	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.23 or 3.73.	0.69	0.047
BMW 325i E46	1999-2005	M54B25	272.5	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.73 or 3.91	0.68	0.047
BMW 328i E46	2003-2004		272.5	Trans ratios: 1st 4.23, 2nd 2.50, 3rd 1.66, 4th 1.23, 5th 1.00, 6th .85. Final drive 2.93 or 3.90. SMG not permitted.	0.68	0.047
BMW 330i E46	2001-2006	3.0 L M54	272.5	Trans ratios: 1st 4.23, 2nd 2.50, 3rd 1.66, 4th 1.23, 5th 1.00, 6th .85. Final drive 2.93 or 3.46 SMG not permitted. If running as Spec E46, must comply with all SE46 rules except 9 inch wide wheels allowed and USTCC legal tires must be used.	0.68	0.047
BMW M3 E46	2001-2006	3.2 L S54	272.5	Trans ratios: 1st 4.23, 2nd 2.53, 3rd 1.67, 4th 1.23, 5th 1.00, 6th .85. Final drive 3.62. SMG allowed with 75 pound penalty. 3.91 ratio allowed with 150 pound penalty. Minimum HP declared number is 280bhp. 5 speed with same ratios allowed.	0.729	0.047
BMW E90	2006-2011	3.2 L S54	276.1	Trans ratios: 1st 4.23, 2nd 2.53, 3rd 1.67, 4th 1.23, 5th 1.00, 6th .85. Final drive 3.62. SMG not permitted. 3.91 ratio allowed with 150 pound penalty. Minimum HP declared number is 280bhp.	0.697	0.047
Chevrolet Cobalt SS	2005-2007		262.4	Final drive: 4.45. Allowed: modify rear sway bar mount for adjustment, relocate lower rear shock mount 1/2 inch forward for wheel clearance, #CCS609 hood, #CCS610 deck lid, #CCS611 spoiler, #CCS608 fascia, front knuckle conversion #CCC606, Spherical end for lower control arm included in kit. Maximum RPM 6700. Must use OEM ECU. Maximum boost 15 psi.		0.047
Dodge SRT-4	2003-2005	A855	266.7	Trans ratios: 1st 3.65, 2nd 2.05, 3rd 1.37, 4th .97, 5th .76. Final drive 3.53. 3R Racing suspension kit permitted. Mitsubishi TD04 turbocharger. May use ABS with Chrysler 300C calipers and 11.5" x 1.125" rotors.	0.797	0.047
Fiat 500 Abarth	2012-2014	Multiair	230.0	Trans ratio. 1st 3.909, 2nd 2.238, 3rd 1.520, 4th 1.156, 5th 0.872. C510 transmission code. Diff ratio 3.353:1.	0.932	0.047
Ford Mustang GT	2005-2009	4.6 V8	272.0	Must comply with 2020 Spec Mustang (SMG). USTCC spec tire and size rules are mandated. 5 speed manual transmission ratio: 1st. 3.34, 2nd. 2.00, 3rd. 1.32, 4th. 1.00, 5th 0.68. Diff ratio 3.73. Track (outside to outside of tire) front 73.875 inches. Rear track 74.375 inches.	0.89	0.047
Honda Accord	1998-2002	H22A (JDM)	267.0 2 dr, 271.5 4 dr	Trans ratios: 1st 3.307, 2nd 1.950, 3rd 1.360, 4th 1.071, 5th .870 or 1st 3.285, 2nd 1.950, 3rd 1.344, 4th 1.034, 5th .812. Final drive 4.266		0.047
Honda Civic	2006-2011	K20Z3	265.0	Trans ratios: 1st 3.267, 2nd 2.130, 3rd 1.517, 4th 1.147, 5th .921, 6th .659. Final drive 4.765.	0.65	0.047
Honda Civic	2006-2011	K24	265.0	Trans ratios: 1st 3.267, 2nd 2.130, 3rd 1.517, 4th 1.147, 5th .921, 6th .659. Final drive 4.765 or 5.062. Add 50 pounds for use of HPD ABS module.	0.65	0.047
Honda Civic	2012-2013	K24Z7	262.0	Trans ratios: 1st 3.267. 2nd 2.040, 3rd 1.429. 4th 1.073. 5th 0.830. 6th 0.647. Final Drive Ratio 4.765.	0.65	0.047
Honda Civic	2015-2021	L15B7	270.0	Trans ratios: 1st 3.643, 2nd 2.080, 3rd 1.361, 4th 1.024, 5th 0.830, 6th 0.686. Final drive 4.105. HPD TCA cars using HPD ABS modules add 100 pounds.	0.615	0.047
Honda Civic Type R (FK8)	2017-2022	2.0 turbo. K20C1	270.0	Trans ratios: 1st 3.625, 2nd 2.115, 3rd 1.529, 4th 1.125, 5th 0.911, 6th 0.735. Final drive 4.11.		
Honda Fit	2007-2013	1.5 liter	245.0	Trans ratios: 1st 3.308, 2nd 1.87, 3rd 1.303, 4th 0.949, 5th 0.727. Final Drive Ratio 4.625.	0.826	0.047
Honda S2000	2000-2009	F20C, F22C1	240.0	Trans ratios. 1st 3.133, 2nd 2.045, 3rd 1.481, 4th 1.161, 5th .97 (or 0.942 with F22c), 6th .81 (or 0.763 with F22c). Final drive 4.10. Must add 100 pounds additional. Excluded from 95% min HP rule.	0.661	0.047
Hyundai Genesis Coupe	2010-2012	3.8 V6	282.0	Transmission 6 speed manual 1st. 3.85, 2nd. 2.32, 3rd. 1.62, 4th. 1.23, 5th. 1.00, 6th. 0.79. Final drive 3.54 or 3.91. Excluded from 95% min HP rule.	0.719	0.047
Lexus IS300	2001-2005	3.0 L I-6 2JZ-GE	266.9	Transmission 5 speed manual. 1st. 3.566. 2nd. 2.056. 3rd. 1.384. 4th. 1.00. 5th. 0.85. Final Drive ratio 3.727 or 3.909.	0.67	0.047
Mazdaspeed 3	2007-2009	2.3L Turbo L4	264.0	Transmission ratios: 1st. 3.54, 2nd. 2.24, 3rd. 1.54, 4th 1.17, 5th. 1.09, 6th .85.	0.808	0.047

Mazda 6	2013-	2.2 L Turbo Diesel	283.0	Transmission ratios: 1st 3.357, 2nd 1.826, 3rd 1.565, 4th 1.147, 5th 0.893, 6th 0.745. Final Drive ratio 4.105 (1st & 2nd gears)/3.120 (3-6th gear)		0.047
Mazda RX8	2004-2008		270.3	Trans ratios: 1st 3.76, 2nd 2.269, 3rd 1.645, 4th 1.187, 5th 1.000, 6th .843. Final drive: 4.444. The transmission/final drive must match the engine type (i.e. JDM and US). Alternate final drive ratio 5.12. Excluded from 95% min HP rule.	0.68	0.047
Mazda MX5	2006-2015	MZR2.5	233.0	Trans ratios: 1st 3.815, 2nd 2.26, 3rd 1.64, 4th 1.177, 5th 1.00, 6th 0.832. Final drive 4.10. Trans code P66M-D. Must add additional 100 pounds.	0.673	0.047
Mazda MX5	2006-2015	MZR2.0	233.0	Trans ratios: 1st 3.815, 2nd 2.26, 3rd 1.64, 4th 1.177, 5th 1.00, 6th 0.832. Final drive 4.10. Trans code P66M-D.	0.673	0.047
Mini Cooper S	2002-2006	W11B16A	246.6	Eaton Model 45 supercharger. Can run different size pulley. 225/45-15 tires allowed.	0.718	0.047
Mitsubishi Lancer Evolution	2003-2004	4G63	262.4	Trans ratio: 1st 2.93, 2nd 1.95, 3rd 1.41, 4th 1.03, 5th .72. Final drive 4.53. Stock center differential.	0.859	0.047
Mitsubishi Lancer Ralliart	2008-2012	4B11	263.5	Turbocharger PN 1000A864 allowed. No yaw control allowed on AWD. Evo X 5 speed manual allowed. Trans ratios: 1st 2.857, 2nd 1.950, 3rd 1.444, 4th 1.096, 5th .761.	0.852	0.047
Nissan 350Z	2003-2006	VQ35DE	264.9	6 speed manual transmission. 1st 3.79, 2nd 2.32, 3rd 1.62, 4th 1.27, 5th 1.00, 6th 0.79. Final drive 3.54:1.	0.641	0.047
Nissan 350Z	2007-2008	VQ35HR	264.9	6 speed manual transmission. 1st 3.79, 2nd 2.32, 3rd 1.62, 4th 1.27, 5th 1.00, 6th 0.79. Final drive 3.54:1.	0.641	0.047
Scion FR-S	2012-	FA20	257.0	6 speed manual transmission. 1st 3.626, 2nd 2.188, 3rd 1.541, 4th 1.213, 5th 1.000, 6th .767. Axle ratio. 4.10.	0.611	0.047
Subaru Impreza WRX	2002-2005	EJ205	252.5	Trans ratios: 1st 3.454, 2nd 1.947, 3rd 1.366, 4th .972, 5th .738. Final drive 3.90. Front control arms 20202FE300, 20202FE310 permitted. Subaru IHI Turbo part # 114412AA360.	0.763	0.047
Subaru Legacy	2005-2008	2.5 L	267.0	Final drive: 4.11, 1st 3.166, 2nd 1.882, 3rd 1.296, 4th .972, 5th .738. Viscous limited slip rear differential.		0.047
Toyota Celica GTS	2000-2005	1.8	260.0	Magnuson MP62 supercharger, Magnuson intercooler allowed.	0.67	0.047
Volvo C30	2008-2012	B5254T7	263.9	Trans ratios: 1st 3.39, 2nd 1.91, 3rd 1.27, 4th .95, 5th .78, 6th .65. Final drive: 3.77. Alternate rear upper control arms permitted for camber adjustment. Arms may be purchased from Viva (p/n: vp-057012) or Elevate (p/n: C30 adj. rear camber arms). Cost is \$299 per set. OE power steering pump may be relocated to passenger foot well to protect it from frontal impact. May use front uprights, hubs and bearings from 2011 Mazda 3. May place air filter in area behind left driving lightgrille.		0.047
VW Golf/GTI	1999-2004	VR6	251.2	Trans ratios: 1st 3.30, 2nd 1.90, 3rd 1.32, 4th 1.03, 5th .84. Final drive 3.36-3.90.	0.716	0.047
VW GTI Mk 4	1999-2004	1.8T	251.2	Trans ratios: 1st 3.417, 2nd 2.105, 3rd 1.481, 4th 1.152, 5th 1.167, 6th .970. Final Drive: 3.875.	0.716	0.047
VW GTI Mk 5	2006	2.0T BYD	263.0			

VEHICLE SPEC SHEET. ELIGIBLE CARS SPORTSMAN

The following cars are only eligible for Sportsman class.

Model	Years	Engine	Wheelbase, cm	Comments	Traqmate Aero Factor	Traqmate tire friction factor
Acura Integra	1994-2001	B18C	257.0	Alternate transmission ratios: 1st 3.230, 2nd 2.105 or 1.900, 3rd 1.458 or 1.360 or 1.269, 4th 1.107 or 1.034 or .966, 5th .848 or .784 or .714. Final Drive 4.40 or 4.70. Trans codes: Y21, S21, Y80, S80. Aftermarket upper front control arms can be used to facilitate camber adjustment.	0.658	0.047
Acura Integra	1994-2001	B20	257.0	Alternate transmission ratios: 1st 3.230, 2nd 2.105 or 1.900, 3rd 1.458 or 1.360 or 1.269, 4th 1.107 or 1.034 or .966, 5th .848 or .784 or .714. Final Drive 4.40 or 4.70. Trans codes: Y21, S21, Y80, S80. Aftermarket upper front control arms can be used to facilitate camber adjustment.	0.658	0.047
Acura Integra	1994-2001	K20A	257.0	Trans ratios US: 1st 3.266, 2nd 2.130, 3rd 1.517, 4th 1.147, 5th .921, 6th .738. Final drive: US 4.388, 4.764 or 5.062	0.658	0.047
Acura Integra	1994-2001	K24	257.0	Trans ratios: 1st 3.267, 2nd 1.880, 3rd 1.355, 4th 1.028, 5th .825, 6th .659. Final drive: 4.760. Alternate transmission is K20 6 speed with ratios: 1st 3.266, 2nd 2.13, 3rd 1.517, 4th 1.147, 5th 0.921, 6th .738. Final drive 4.389, 4.764 or 5.062.	0.658	0.047
Acura Integra	1994-2001	H23A 2.3L	257.0	M2F4 Trans ratios: 1st 3.307, 2nd 1.95, 3rd 1.36, 4th 1.07, 5th .87. Final drive: 4.260.	0.658	0.047
Audi A4	1996-2001	AEB 1.8T	261.6	KKK K03 is stock. K04 turbo allowed. Trans ratios: 1st 3.778, 2nd 2.176, 3rd 1.429, 4th 1.029, 5th .838. Final drive: 3.889 or 4.11.	0.694	0.047
BMW 318ti E36	1995-1998	2.8 L M52B28	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.73 or 3.90. Rear sub frame can be raised 15 mm maximum vertically. Rear springs can be relocated to use coil over shock setup.	0.665	0.047
BMW 325i E36	1992-1999	M50B25	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.73 or 3.90. Ti models can raise rear subframe a maximum of 15mm vertically and may convert separate rear spring and shock setup to a true coilover setup.	0.647	0.047

BMW 328i E36	1994-1999	2.8 L M52B28	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.23 or 3.73. Ti models can raise rear subframe a maximum of 15mm vertically and may convert separate rear spring and shock setup to a true coilover setup.	0.647	0.047
BMW M3 E36	1995-1999	S52B32 3.2L	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000. Final drive 3.23 or 3.73.	0.69	0.047
Honda Accord	1998-2002	H22A (JDM)	267.0 2 dr, 271.5 4 dr	Trans ratios: 1st 3.307, 2nd 1.950, 3rd 1.360, 4th 1.071, 5th .870 or 1st 3.285, 2nd 1.950, 3rd 1.344, 4th 1.034, 5th .812. Final drive 4.266		0.047
Honda Civic	1992-1995	B18C5 or B18C1	257.3	Alternate transmission ratios: 1st 3.230, 2nd 2.105 or 1.900, 3rd 1.458 or 1.360 or 1.269, 4th 1.107 or 1.034 or .966, 5th .848 or .784 or .714. Final Drive 4.40 or 4.71 Trans codes: Y21, S21, Y80, S80. Aftermarket upper front control arms can be used to facilitate camber adjustment.	0.744	0.047
Honda Civic	1996-2000	B18C5 or B18C1	262.1	Alternate transmission ratios: 1st 3.230, 2nd 2.105 or 1.900, 3rd 1.458 or 1.360 or 1.269, 4th 1.107 or 1.034 or .966, 5th .848 or .784 or .714. Final Drive 4.40 or 4.71 Trans codes: Y21, S21, Y80, S80. Aftermarket upper front control arms can be used to facilitate camber adjustment.	0.744	0.047
Honda Civic	1996-2000	K24	262.1	Trans ratios: 1st 3.267, 2nd 1.880, 3rd 1.355, 4th 1.028, 5th .825, 6th .659. Final drive: 4.760. Alternate transmission is K20 6 speed with ratios: 1st 3.266, 2nd 2.13, 3rd 1.517, 4th 1.147, 5th 0.921, 6th .738. Final drive 4.389, 4.764 or 5.062.. Aftermarket upper front control arms can be used to facilitate camber adjustment..	0.744	0.047
Honda Civic	1996-2000	K20A	262.1	Trans ratios: 1st 3.267, 2nd 1.880, 3rd 1.355, 4th 1.028, 5th .825, 6th .659. Final drive: 4.760. Alternate transmission is K20 6 speed with ratios: 1st 3.266, 2nd 2.13, 3rd 1.517, 4th 1.147, 5th 0.921, 6th .738. Final drive 4.389, 4.764 or 5.062.. Aftermarket upper front control arms can be used to facilitate camber adjustment..	0.744	0.047
Honda Del Sol	1992-1997	B18C5 or B18C1	236.9	Alternate transmission ratios: 1st 3.230, 2nd 2.105 or 1.900, 3rd 1.458 or 1.360 or 1.269, 4th 1.107 or 1.034 or .966, 5th .848 or .784 or .714. Final Drive 4.40 or 4.71 Trans codes: Y21, S21, Y80, S80. Aftermarket upper front control arms can be used to facilitate camber adjustment.	0.662	0.047
Honda Prelude	1992-1996	H23A1	255.0	Trans ratios: 1st 3.307, 2nd 1.809, 3rd 1.269, 4th 0.966, 5th 0.757. Final drive 4.64 M2S4 trans		0.047
Honda Prelude	1992-1996	H22A (JDM)	255.0	Trans ratios: 1st 3.307, 2nd 1.950, 3rd 1.360, 4th 1.071, 5th .870 or 1st 3.285, 2nd 1.950, 3rd 1.344, 4th 1.034, 5th .812. Final drive 4.266		0.047
Honda Prelude	1992-1996	K24 2.4L	255.0	Trans ratios: 1st 3.267, 2nd 1.880, 3rd 1.355, 4th 1.028, 5th .825, 6th .659. Final drive: 4.760. Alternate transmission is K20 6 speed with ratios: 1st 3.266, 2nd 2.13, 3rd 1.517, 4th 1.147, 5th 0.921, 6th .738. Final drive 4.389 or 4.764. Alternate transmission carries 50 pounds weight penalty.		0.047
Honda Prelude	1997-2001	H22A (JDM)	258.6	Trans ratios: 1st 3.307, 2nd 1.950, 3rd 1.360, 4th 1.071, 5th .870 or 1st 3.285, 2nd 1.950, 3rd 1.344, 4th 1.034, 5th .812. Final drive 4.266	0.657	0.047
Mazda MX6	1993-1997	2.5L V6 KL-DE	261.1			

VEHICLE SPEC SHEET. SUPER TOURING CLASS

The following are eligible for Super Touring class. If you don't see your car, ask for homologation.

Model	Years	Engine	Wheelbase, cm	Comments	Traqmate Aero Factor	Traqmate tire friction factor
Audi R8 V8	2006-2012	4.2 FSI V8 BYH	265	Transmission ratios: 1st 4.373, 2nd 2.709, 3rd 1.878, 4th 1.411, 5th 1.126, 6th 0.928. Final drive ratio: 3.462. RWD conversion allowed.		
BMW E90	2006-2011	3.2 L S54	276.1	Trans ratios: 1st 4.23, 2nd 2.53, 3rd 1.67, 4th 1.23, 5th 1.00, 6th .85.	0.697	0.047
BMW E90 335i	2007-2011	N54B30	276.1	Trans ratios: 1st 4.06, 2nd 2.4, 3rd 1.58, 4th 1.19, 5th 1.00, 6th 0.87.	0.697	0.047
BMW M3 E36	1995-1999	S52B32 3.2L	270.0	Trans ratios: 1st 4.210, 2nd 2.490, 3rd 1.660, 4th 1.240, 5th 1.000.	0.69	0.047
BMW M3 E46	2001-2006	3.2 L S54	272.5	Trans ratios: 1st 4.23, 2nd 2.53, 3rd 1.67, 4th 1.23, 5th 1.00, 6th .85.	0.729	0.047
Chevrolet Corvette Z06 (C5)	1997-2004	LS6 5.7 V8	265.4	Trans ratios: 1st 2.97, 2nd 2.07, 3rd 1.43, 4th 1.00, 5th 0.84, 6th 0.57. Final drive: 3.42.		
Honda Civic Type R (FK8)	2017-2022	2.0 turbo. K20C1	270.0	Trans ratios: 1st 3.625, 2nd 2.115, 3rd 1.529, 4th 1.125, 5th 0.911, 6th 0.735. Final drive 4.11.		
Mazdaspeed 3	2007-2009	2.3L Turbo L4	264.0		0.808	0.047
Mitsubishi Lancer Evolution	2003-2004	4G63	262.4		0.859	0.047
Porsche 911	1997-2004	3.6L	235.2		0.641	0.047
Porsche Cayman S (987)	2005-2012	3.4 liter MA1.21	241.5	3.66, 2nd 2.05, 3rd 1.40, 4th 1.13, 5th 0.97, 6th 0.84. Final drive 3.87.		
Volkswagen Jetta Mk6	2011-2018	2.0 Turbo. K04 Turbo or optional Garrett GEN2 GTX2860R turbo. DSG allowed.	265.1	Trans ratios: 1st 3.357, 2nd 2.087, 3rd 1.469, 4th 1.098, 5th 1.108, 6th 0.927. Final drive 3.944/3.087.	0.736	0.047