

2009 TRANSMISSION REFERENCE GUIDE

TRENEC TRANSMISSIONS TECHNOLOGY IN MOTION™ Welcome race fans to TREMEC Transmissions—proud manufacturers of some of the most celebrated performance manual gearboxes available on the planet! At TREMEC we put O.E. technology to work for you in an effort to provide the smoothest-shifting, longest-lasting.

most durable transmissions your hard earned money can buy. We believe in what we do and work tirelessly to ensure that we do it better than anyone else.

So whether you're building a boulevard-bruiser, or an all-

out street/strip terror, there's a TREMEC Transmission that's right for you. Each model benefiting from careful development and vigorous testing on par with the very latest in cutting-edge industry practices. We do this to ensure that when any enthusiast equips his or her vehicle with a TREMEC transmission, they can be certain that the gearbox they're installing is truly a piece that is second to none—easy to operate, easier to enjoy, and trouble-free for years of spirited driving!

We hope you take pleasure in this abbreviated look at some of our exciting premium products and offer our sincerest thanks for your interest in TREMEC Transmissions!

WHAT IT MEANS TO BE O-E: THE TREMEC ADVANTAGE

The difference between a TREMEC product and those of our competitors is nothing short of great to say the least. As a Tier 1 and Tier 2 supplier to some of the most respected names in the business, TREMEC utilizes many development and manufacturing processes well beyond the reach of most would-be manufacturers. From forging to heat-treating, machining to final assembly, virtually all aspects of the manufacturing of our top-quality transmissions are handled 100% in-house using the latest manufacturing techniques.

What this means for you is simply peace of mind. With a TREMEC Transmission under your tunnel you can cruise with confidence, knowing that each of our aftermarket replacement

and specialty performance units benefits from the same technology found in many of the world's most respected factory supercars.



WORKING UNDER PRESSURE: TREMEC IN MOTORSPORTS

They say real race cars have three pedals, and at TREMEC, we're inclined to agree! That's why at TREMEC our transmissions see countless hours of hardcore motorsports abuse to show what weeks of expensive in-house validation testing alone never could!

From low 9-second blasts down the 1320', to 24-hours of grueling endurance testing in the 24-hours of LeMans; at TREMEC we don't just participate, in most cases we win!

OB CONTERN

Above: A pair of TREMEC T-56 equipped Z06 Corvettes duke it out at the Bondurant School of High Performance Driving.

With experience in several forms of land-based motorsports, and an extremely competent nationwide distributor base in our corner, the possibilities for a TREMEC in your racing application are limited only by your desire to see life from the winner's circle!



As for our customers not out trying to collect contingencies, this level of endurance testing ensures that TREMEC Transmissions are up to about any challenge you can think to throw at them out on the street. From weekend test-n-tunes to the daily commute to work, there's virtually no stopping a TREMEC Transmission!

Left: A TREMEC TKO-equipped 600-plus horsepowe Cobra Mustang hangs the hoops to the delight of hundreds of tans

TREMECONOMICS: TREMEC SAVES YOU MONEY AT THE PUMP

These days the smell of octane in the air doesn't bring as much joy to enthusiasts as it once did, with the cost of fuel constantly on the fritz! If lately a cruise down the highway sounds like more fun than you can afford, then a high-performance overdrive from TREMEC may be just the cure. There's simply no other product on the market that enhances your early-model's performance while adding incredible fuel economy the way a TREMEC does! If you're still not convinced, use the equation below to see how your old 4-speed stacks up!



rpm = (mph x gear ratio x 336) / tire diameter

If you're having trouble, let's assume that you have an old Muncie 'Rockcrusher' with a 1:1 fourth gear, some 4.11's out back, and a pair of 26" tall tires putting the power to the ground. At just 65 mph you're churning out nearly 3,500 RPM! Now multiply that number by .64 (as in the .64:1 overdrive in a TREMEC TKO 5-speed) and you'll see that at the same speed you could be saving over 1200 RPM (from 3,452 RPM to 2,209 RPM). Not only will a TREMEC save you money, but its far and away a stronger and better shifting piece! Furthermore, you'll never have to sit back and watch a little sport compact pass you on the highway ever again.

COAST TO COAST PERFORMANCE SOLUTIONS:

TREMEC'S NATIONWIDE DISTRIBUTION NETWORK



As a Tier 1 automotive supplier, TREMEC caters to a worldwide customer base. The same is true when it comes to our aftermarket efforts, however we do things slightly different in this portion of our business. With the bulk of sales being generated in the United States, TREMEC has established a comprehensive multi-national distribution network (including Canada, Mexico, Australia, and even the UK), which places special emphasis on the needs of American enthusiasts. This network, comprised of a handful of select TREMEC 'Elite' Distributors along with dozens of third-party resellers and authorized installers, features some of the greatest minds in automotive performance. What this means for you is that virtually no application or technical concern imaginable is beyond TREMEC's reach. And to tap into the power of this network all you need do is pick up the phone or go online!

OFF TO THE RACES:TREMEC HITS THE OPEN ROAD

Still not sure if a TREMEC is right for you? Meet with us at any one of several events across the country to ask us your questions in person! Check out our detailed cutaway displays. Or better yet, show us what you're made of



by participating in one of the many TREMEC True Street events, or TREMEC-sponsored shows and shootouts held across the country! Participants receive cool TREMEC swag just for coming out! Learn more by visiting our website.

TREMEC Transmissions is a proud supporter of the following events and organizations











TREMEC TRIVIA: FOR YOUR BENCH-RACING PLEASURE

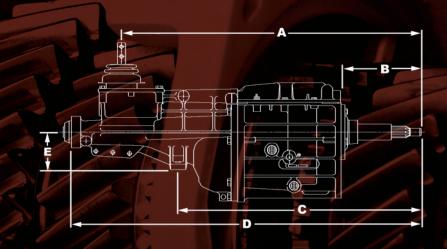
Thought you knew everything there was to know about manual transmissions? Or maybe just about TREMEC? Use these previously hidden factoids with your friends at your next car gathering to make all the guys and gals swoon!

- TREMEC has been building quality transmission assemblies since 1964. Its popularity in the aftermarket came about in the early 90's when late-model Mustang enthusiasts first began using TR-3550 as a heavy-duty upgrade from the Borg-Warner T-5.
- The name TREMEC is actually an acronym standing for 'Transmissions and Mechanical Equipment'.
- When not producing assemblies for passenger car and pickup applications, TREMEC also builds transmissions and components for everything from military movers to eco-friendly sconters!
- TREMEC's sister brand, TTC/SPICER, manufactures heavy-duty transmission assemblies for commercial vehicles up to Class 8 in rank. These units feature up to 18-forward gears and as much as 2,200 lb-ft. of earth-moving torque capacity!
- TREMEC's wildly popular TKO 5-speed is an evolutionary descendant of the legendary 'Top-Loader' 4-speed; a transmission once produced by TREMEC.
- TREMEC's new T-56 Magnum 6-speed is an aftermarket version of the TR-6060, which is factory equipment in current Vipers, Vettes, Shelby GT500s, Cadillac CTS-Vs, Pontiac G8 GXPs, SRT-8 Challengers and high performance versions of the recently released Camaro.
- Running at full steam, TREMEC can produce up to an astonishing 280,000 complete transmission assemblies each year; not to mention thousands of additional components.
- You may have already known TREMEC's were present in Mustangs and Corvettes, but did you know TREMEC components can also be found in everything down to John Deere tractors as well? Maybe that's why "Nothing Runs Like A Deere"!
- Health conscious consumers will be happy to know that all TREMEC Transmissions are high in essential minerals and low in saturated fat.

NOTES:



A highly evolved, extremely compact, and wonderfully versatile 5-speed that has stood the test of time, TREMEC's T-5 first hit the scene in the early 1980's as a product of the Borg-Warner company. From S-10 Blazers to 5-liter Mustangs, in its nearly 30-year history the T-5 has seen a variety of uses and numerous upgrades. Today the T-5 still enjoys life as an Original Equipment unit while continuing to gain popularity in the street rod and performance markets. Dollar-for-dollar, pound-for-pound the T-5 is the smoothestshifting, easiest to drive, and most reliable manual transmission for moderate horsepower applications available anywhere. Easily accepting up to 300 lb-ft. of torque, the TREMEC T-5 is not only durable, but offers easy operation and a deep overdrive, making any street rod or kit car more pleasurable to drive.



	Application	In	stallation	Dimensio	Bellhousing		
ı	Application	Α	В	С	D	Е	Delinousing
١	GM	27.5	7.12	22.3	30.6	3.03	N/A
ı	Ford	26.4	7.14	21.4	31.6	3.03	TTEP8460

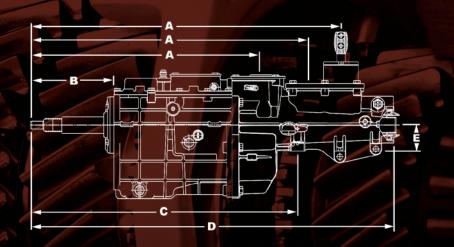
- A. Shifter location from rear face of engine block
- B. Input shaft length from face of trans case to tip of shaft
- C. Crossmember mounting location from rear face of block
- D. Overall length from rear face of block to end of casting
- E. Crossmember mounting location from centerline



Application	Part # Engine	Part # Engine	Part #	Engine	Torque Capacity	Integral Clutch	Dry Weight	Speedo	Spline	Count			(Gear Rati	os		
Application		Liigilie	(lb-ft.)	Housing		Туре	Input	Output	1st	2nd	3rd	4th	5th	6th	Rev		
GM	1352-000-247	3.8 V6	230	No	75	Elec	26	27	3.75	2.19	1.41	1.00	.72	N/A	3.53		
Ford	1352-000-251	5.0 V8	300	No	75	Elec	10	28	2.95	1.94	1.34	1.00	.63	N/A	2.76		



Ridding the world of outdated 4-speeds and overworked factory 5-speeds, the TREMEC TKO is the most popular and versatile performance manual trans available in the aftermarket. Begging the question, "Why 'crush rocks' when you could move mountains?", the TKO is an extremely durable unit, perfect for retrofits in early muscle cars and street rods in addition to its originally intended purpose as a significant strength upgrade for late-model monsters. Handling up to 600 lb-ft. of torque, the TKO offers strength without compromise; combining awesome power-handling abilities with crisp, positive shift characteristics. Up to seven different shifter locations allow for adaptation to a wide range of vehicles. Add to that a deep overdrive for big savings at the pump, and it's easy to see how the TKO has become a legend in its own time!



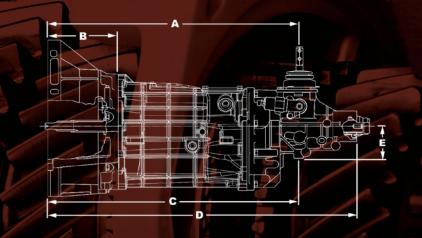
Application	Installatio	on Dime	Bellhousing			
Арриосион	Α	В	С	D	E	Demiodenig
GM (All)	19.0/23.0/25.8	6.71	22.1	30.4	2.2	TCCM9603 (Muncie-style)
Ford (All)	19.6/23.7/25.4	7.21	22.7	31.0	2.2	TCEP8639

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Application	Part # Engine	Torque Capacity	Integral Clutch	Dry Weight	Speedo	Spline Count		Gear Ratios							
Аррисацоп		Liigilie	(lb-ft.)	Housing	(lbs.)	Туре	Input	Output	1st	2nd	3rd	4th	5th	6th	Rev
GM	TCET4616	Any	500	No	99	Mech/Elec	26	31	3.27	1.98	1.34	1.00	.68	N/A	3.00
GM	TCET4618	Any	600	No	99	Mech/Elec	26	31	2.87	1.89	1.28	1.00	.82	N/A	2.56
GM	TCET5009	Any	600	No	99	Mech/Elec	26	31	2.87	1.89	1.28	1.00	.64	N/A	2.56
Ford	TCET4615	Any	500	No	99	Mech/Elec	10	31	3.27	1.98	1.34	1.00	.68	N/A	3.00
Ford	TCET4617	Any	600	No	99	Mech/Elec	26	31	2.87	1.89	1.28	1.00	.82	N/A	2.56
Ford	TCET5008	Any	600	No	99	Mech/Elec	26	31	2.87	1.89	1.28	1.00	.64	N/A	2.56
Ford	TCET5201	Any	500	No	99	Mech/Elec	26	31	3.27	1.98	1.34	1.00	.68	N/A	3.00

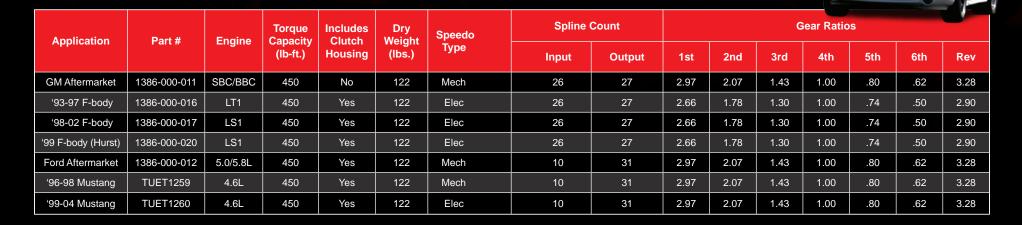


Since debuting in Dodge's ultra exotic Viper sports car in 1992, the T-56 6-speed has become one of the most celebrated manual transmissions ever to hit the automotive industry. A highly versatile, smooth-shifting brute of a gearbox, it has repeatedly proven its worth in a variety of factory supercars, as well as in its racing efforts all around the globe. Offering true double overdrive for the ultimate blend of performance and economy, TREMEC's T-56 is strong where it counts, yet conservative where you need it. Several varieties of the T-56 are available for adaptation to a wide range of custom applications—early and late. Able to withstand extreme amounts of abuse and reward it with unbelievable fuel economy, the T-56 is a modern day favorite at an exceptional value.



	Application	Insta	llation D	imensio	Bellhousing					
	Application	Α	ВС		D	Е	9			
	*GM Aftermarket	27.9	6.55	27.8	32.5	3.4	TCCM9603 (Muncie-style)			
1	'93-97 F-Body	28.8	5.12	25.9	31.3	3.4	P/N 1386-212-001			
	'98-02 F-body	29.4	6.46	26.6	31.9	3.4	P/N 1386-212-005			
	Mustang 5.0L	26.4	5.60	26.4	32.5	3.4	P/N 1386-212-004			
	Mustang 4.6L	26.5	5.60	26.4	32.5	3.4	P/N TNCM1078			

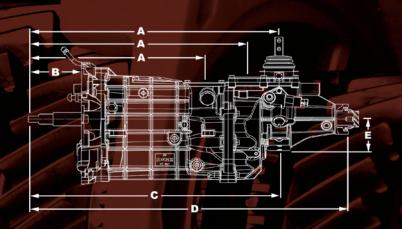
- * GM Aftermarket unit (PN 1386-000-011) includes adaptor plate to mate with TCCM9603 or 'Muncie-style' bellhousing.
- A. Shifter location from rear face of engine block
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T-56 MAGNUM 6-SPEED



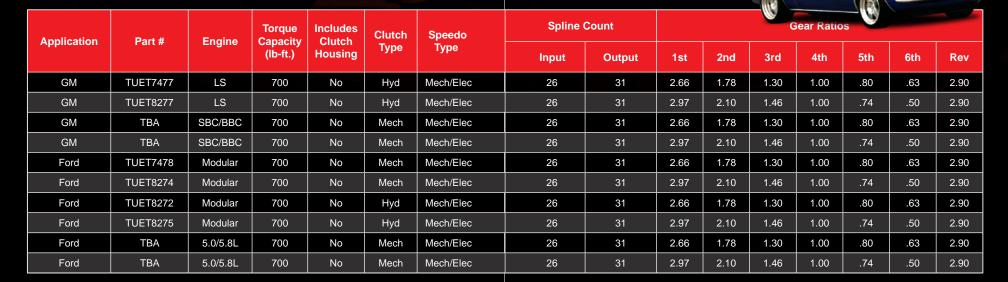
The kingpin of TREMEC's high performance line-up, the all-new T-56 Magnum takes the very best from our current OEM technologies and pairs it with the most popular features of our all-business TKO 5-speed. Able to withstand a massive 700 lb-ft. of torque while providing unbelievably crisp shifts, no other manual transmission on the planet offers as much combined strength, versatility, and general ease of use as the T-56 Magnum. Known in its O.E. form as the 'TR-6060', the Magnum is an aftermarket version of the same transmission found in many of today's most celebrated factory super cars—including the ZR1 Corvette and sinister ACR Viper. A world-class transmission in every respect, it's the best transmission on the market for those who will accept nothing less.



	Application	Installatio	n Dime	Bellhousing			
	Аррисации	Α	В	С	D	Е	Demiousing
	GM LS Hyd.	18.9/23.0/26.6	6.46	26.6	33.8	3.1	1386-212-005
	Ford Mod. Mech.	18.7/22.8/26.4	5.64	26.3	33.6	3.1	TNCM1078
1	Ford Mod. Hyd.	19.6/23.7/27.3	6.53	27.2	34.5	3.1	TNCM1078 (w/ spacer)

Note: Dimensional information based on models available at time of printing. Additional models to be released soon.

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COMPONENTS

At TREMEC, we don't just manufacture new assemblies. We also provide a full line of components, service parts, and accessories! Get the most from your TREMEC 5-or-6-speed installation with one of the items featured here.



CLUTCH HOUSINGS

TREMEC offers OEM-quality aluminum bellhousings for select T-5, TKO, and T-56 Magnum applications (T-56 includes housing, except Corvette). Non-SFI approved. Includes hardware and spacer where applicable.

T-5, Ford 5.0L	TTEP8640
TKO, Ford 4.6/5.4L	TCCM1899
TKO, Ford 5.0/5.8L (includes ball stud)	TCEP8639
TKO, GM SBC	TCCM9603
T-56 Magnum, Ford 4.6/5.4L (Mech)	TNCM1078
T-56 Magnum, Ford 4.6/5.4L (Hyd)	TNCM1078
T-56 Magnum, Ford 5.0/5.8L (Mech)	1386-212-004
T-56 Magnum, GM SBC (Mech)	TCCM9603
T-56 Magnum, GM LS (Hyd)	1386-212-005



SLIP YOKES

In many cases, converting to a TREMEC TKO or T-56 Magnum will also warrant minor driveline modifications, such as upgrading to our 31-spline aftermarket slip yoke. Built to OEM standards. Accepts 1330-style u-joints.

Slip	Yoke	 2-3-6041X



SHORT INPUT SHAFT KITS

TREMEC's Short Input Shaft Kits are a must when installing a TREMEC TKO behind Ford FE-series engines. Kits include appropriate bearing retainer and new front seal. Available in 10 and 26-splines .

Short Shaft Kit,	10-spline	.TCKT5727
Short Shaft Kit,	26-spline	.TCKT5729



COBRA CONVERSION INPUT SHAFT

For 2003-2004 Ford Mustang Cobras with factory T-56 transmissions. Converts factory 10-spline input shaft to 26-spline unit for greatly enhanced strength.

03-04 Cobra	(2.66 ratio only)TUF	FM6132
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MISCELLANEOUS PARTS & TOOLS

Clutch Fork Cover (Fits housing TCMM1899)M-96	6-1
TKO/T-56 Magnum Mech Speedo Plug Kit30-360-	1X
TKO Rear Shift CoverTCPT57	'06
1.96" Ball Stud (use washer 1381-050-001) 1381-146-0	001
1.47" Ball Stud (use washer 1381-050-001)TNTN12	261
Specialized 'Torex' bit for servicing TR-3650M-999	9-3

TKO OFFSET SHIFT LEVER

Provides 2-inches of offset and a low profile to achieve a near perfect console position in many popular early model installations. 2.375" height.

Offset Shift Lever30	-1	7-	2	X
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TKO MID-SHIFT CONVERSION KIT

Ideal for numerous street rod, kit car, and early pick-up installations. The TREMEC Mid-Shift Kit puts the shifter on a TKO just 12.68" from the face of the transmission. Kit comes with everything necessary to make a complete conversion including a complete shift lever assembly with boot, new shift lug, and rear shift cover. 3.5" height.

Mid-Shift Conversion	Kit	30)-17	7-4	X
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SHIFT BALLS

Let the onlookers know your ride is one not to be messed with a custom TREMEC shift ball! Available in standard or metric thread with five or six speed patterns. Note: Jeweled logo available only in black as shown at right.

5-SPEED SHIFT BALLS

Brushed Aluminum, standard thread	5BR-SX
Brushed Aluminum, metric thread	5BR-MX
Polished Aluminum, standard thread	5PO-SX
Polished Aluminum, metric thread	5PO-MX
Black, standard thread	5BL-SX
Black, metric thread	5BL-MX
White, standard thread	5WL-SX
White, metric thread	5WL-MX

6-SPEED SHIET RAI

O OI EED OITH I BREED	
Brushed Aluminum, standard thread	.6BR-S>
Brushed Aluminum, metric thread	.6BR-M⟩
Polished Aluminum, standard thread	.6PO-S
Polished Aluminum, metric thread	.6PO-M
Black, standard thread	6BL-S>
Black, metric thread	6BL-M
White, standard thread	.6WL-S
White, metric thread	.6WL-M

THREAD ADAPTERS (Included with shift balls)
SAE (.312x18, .375x16, .375x24, .50x24)M-999-13
Metric (M10x1.25, M12x1.75)



IMPORTANT NOTES & TIPS

In any installation, always remember to check transmission to clutch housing to engine fit. Clutch housing pilot should be dial indicated into crankshaft to ensure proper alignment. Check input shaft to pilot bearing fit and depth of input shaft into pilot bore to ensure proper alignment and clearance. Always use correct fluid as per TREMEC/TTC recommendation. Failure to do so may result in loss of warranty. TREMEC/TTC is not responsible for damage resulting from installation errors or misuse. Always use appropriate safety equipment when working with mechanical equipment. TREMEC encourages safe driving habits at all times.



FOR ORDERING OR TECHNICAL ASSISTANCE VISIT US AT:

1.800.401.9866 WWW.TREMEC.COM

AUTHORIZED TREMEC DISTRIBUTOR: