



## Rules and Regulations 2017

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## DRIVER ELIGIBILITY

New and veteran radio control car-racing “hobbyists” are welcome to race regional TCS events. Paid and factory professional drivers are excluded from TCS. There are classes for all skill levels. Make certain to register for your TCS Racing License (required) and read the class descriptions to see which class suites your skill level and budget.

### **TCS Driver Skill Levels:**

**Expert:** Drivers with a high degree of dexterous driving ability

**Advanced:** Drivers with proficient driving ability

**Intermediate:** Drivers with adequate driving ability

**Novice:** Beginning drivers with early stages of driving ability

### **Note:**

*Full factory sponsored and professional drivers should read below, as they are not eligible to participate in the TCS series.*

“Factory Team” drivers (drivers who are, or have ever been, employed or supported by a factory, manufacturers or distributor as part of a factory racing team) are not allowed to compete in the Tamiya Championship Series.

Individuals that receive sponsorship entailing a monthly salary from a factory/manufacturer and receive paid airfare/accommodations to racing events are also excluded from TCS.

TCS host regional sites and Tamiya America will do their best to exclude professionals and semi-professional individuals. If the host site deems it necessary, they may also bar those drivers who receive partial sponsorship. It is further at the discretion of the host site to determine which racers fall under the definition of “factory/sponsored driver”.

Tamiya America cannot know every individual’s claims of who is or isn’t a sponsored/factory driver. Therefore, the TCS management team relies on the judgment of the host site to weed out the factory/sponsored drivers that do not meet the average hobbyist criteria.

### **Note to Host Sites:**

Host sites must be careful not to confuse racers who get a deal from their friends that work at a hobby shop or get a discount at their local hobby shop. There will always be racers/hobbyists that will try and get a deal of some kind. Tamiya America strives for balanced conditions wherever possible.

### **Example of exclusion:**

Marc Rheinard is a prime example of racer that Tamiya America will not permit to compete. This individual is clearly supported by a factory and would not be eligible to compete as Tamiya America supports his racing career in all of the above-mentioned points. Individuals that have 50% discounts from manufactures and distributors as part of a support factory team are also banned from TCS.

### **Past TCS Winning Champions:**

Racers that have won a TCS Finals Championship title **ARE** eligible to participate in regional TCS races in any class. They are also eligible to win the first-place trophy; however, Champions that have won the Trip to Japan are not eligible to win the prizes that are associated with first place. Past champions that won a trip to Japan **MUST** donate their first-place prize to the general racer raffle.

All former TCS national title winners (Japan ticket winners) are eligible to participate at the TCS Finals. They may do so under any special classes that are developed including the GT-1 class where they may compete again to win a trip to Japan.

National title winners that did not win a trip to Japan are eligible to compete in a trip winning class.

## GENERAL RULES APPLYING TO ALL VEHICLES

### Chassis

1. All chassis platforms must be built per the instruction manual. Altering their basic structure and design is prohibited.
2. **All Tamiya vehicles must use Tamiya parts only.** No parts from other manufactures unless specified within this document.
3. Any Tamiya Hop-Up Option and spare part is allowed and legal as long as it is used in the way it was designed, and installed on the vehicle it was designed for.
4. It is strictly forbidden to re-engineer or modify the car in any way other than with Tamiya Hop-Ups or kit supplied accessories.
5. Tamiya springs must retain the factory paint/coating. It is illegal to remove the paint/coating from the springs.
6. Chassis lightening (by means of milling parts) is prohibited in all TCS classes.
7. Lightweight screws or adjustable turnbuckles that are made of aluminum, steel or Titanium that are made by other manufactures are allowed. ***(Be aware! If you win the National title down the road and head over to Japan for the Tamiya World Championships, all screws and turnbuckles must be TAMIYA only!)***
8. The use of thin shims (available at most hobby stores and made available by Tamiya) to remove the slop or play in suspension arms, steering bell-cranks and wheel axles is permitted in all vehicles except in the GT-Spec Novice and GT-Pro Spec classes. Shimming the aforementioned components of the car in a way that alters the geometry of the car or its basic geometry design is not legal.
9. The use of O-Rings on shock ball ends and camber/steering links is allowed.
10. Changing the camber-link positions on the car other than the way it was intended per the instruction manual or **“setting sheet”** is prohibited.
11. Camber links must be positioned in the existing mounting holes. Drilling new camber link holes is not permitted or legal.
12. Steering tie-rod linkages, on all chassis platforms, must be attached to the steering knuckle per the instruction manual. Drilling new holes to change “ackerman” is not permitted. Raising and lowering the steering tie-rods with shims, on the steering knuckle itself to change bump steer is not permitted unless specified in the chassis manual, set-up sheet or Hop-Up-Option.
13. You may alter the car in any way called out in the **“setting sheet”**. If the **“setting sheet”** for your car calls out the adjustment, then it’s legal to make the change to your car.
14. Any manufacturer’s radio equipment, servo saver, antenna pipe, antenna mount, pinion and spur gear, ball bearing, tire insert are allowed in all classes, unless exceptions are noted within class specific rules.
15. **Internal Drive Gears:** The internal drive gears of ANY chassis platform may not be altered, changed or modified. You must use the internal drive gears called out in the chassis assembly manual for the specific chassis platform you are racing. Using different Pulley, Ring and Pinion gears from different chassis platforms to create a hybrid internal drive ratio is not allowed. Furthermore, you are not allowed to file, machine or **Dremel** the gear drive line areas to squeeze in a pinion or spur gear.

**See Chart for ID ratios. Your car must have the called-out pulley and ring gears.**

Chassis	TB-03	TB-04	TA-05	TA-05 IFS-R	TA-05 VII	TA-06	TB EVO 5	TB EVO 6	XV-01 TC
IDR	2.438	2.5	2.25	2.05	2.05	2.17	2.437	2.5	2.6
Gear Size	39/16	40/16	36/16	37/18	37/18	39/18	39/16	40/16	52/20

## Electronics

16. 2.4 GHz, 27 MHz or 75 MHz are the only radio frequencies permitted.
17. **Personal My Laps/AMB-it transponders are preferred, but not required. For more information about these transponders please visit <http://www.mylaps.com/en>** Most host sites will have "house" loaner transponders.
18. The use of electronic driving aids is strictly prohibited. **Examples:** Gyroscopes connected to steering servos to control steering input and traction control devices connected to ESC's are NOT permitted. (Item #54417 Active Steering Assist Unit TGU-01 is not legal for any TCS event in the United States).
19. Any class that uses a Brushless motor must use an ESC (electronic speed control) that is ROAR approved. The list of ROAR legal ESCs are found here: [http://www.roarracing.com/?page\\_id=737](http://www.roarracing.com/?page_id=737)

## Batteries

20. Any ROAR approved battery may be used for any TCS class. See below for more details.
- a. NiCd and NiMh batteries are legal for TCS racing.
- b. LiPo batteries are legal for TCS racing. They must be hard cased and on the ROAR approved list.
- c. TCS legal LIPO batteries must be 7.4 volts 2S-1P/2P specification or 4.2 1S for 1/12 scale racing. TCS legal LIPO batteries may be any MAH and C rating. You may use the ROAR approved LIPO list found here as a guide and reference: [http://www.roarracing.com/approvals/print\\_lipobattery.php](http://www.roarracing.com/approvals/print_lipobattery.php)
- d. **NOTE:** Despite the ROAR approved list, Sport Packs (round case batteries) used in the M-Chassis class such as the M03 and M05 are not required to meet ROAR approval. **All TCS legal LIPOS must have a Molded Plastic, Hard Case!** *Soft case packs are not legal for the TCS series.*
- e. Sport packs that are readily available at hobby stores are legal as long as they are assembled from the general hobby industry. **Examples:** Orion, Peak, Reedy, Duratrax, Dynamite, Trinity and Hobbico etc.
21. Batteries that are purchased direct from Sanyo, Panasonic, Intellect or Gold Peak that have no hobby industry branding are not legal. These batteries include those that are used in power tools. Racers that still own batteries such as the Sanyo NI-CD 2000, 1400, 1700 or 1200 are allowed as long as they have the original hobby industry shrink-wrap.
22. **LIPO TECH rules:** In the interest of safety and fairness, all LIPO batteries will be volt metered during TECH Inspection prior to a "qualifying or race" heat. LIPO batteries exceeding 8.44 volts (2S packs) and 4.22 (1S packs) will not be allowed to race on the track until they have been discharged to meet the 8.44 or 4.22 rule. Furthermore, all battery packs may not exceed 10 degrees above ambient temperature. You will not be allowed to race with "HOT" battery packs.
23. **All LiPo batteries must be charged in a LiPo sack!**
24. Any battery connector is allowed.

## Car Body

25. All car bodies must be painted and must be cut along the trim lines. Removing material beyond/above the trim line is prohibited. Leaving extra material below the trim lines of the body is also prohibited. You are not allowed to create extra vent holes for the purpose of ventilation or performance enhancement.
26. All car bodies must use the wings that are supplied in the kit. Mixing and matching ABS plastic wings, between different body styles, is not allowed. Part number 53470 (Lightweight Wing) and 53604 (Racing Wing Set) or any future **OPTIONAL** wing set is legal for any sedan/sports car body as long as the body is pre-marked with dimples for the option wing mount. See specific class rules for restrictions.
27. In the spirit of keeping TCS Racing scale in appearance to the public, the Subaru Legacy B4 body (items 53727, 49374 & 53824) is not legal for all GT classes.

## Motors

28. Any motor connector or direct hard wiring to the motor is allowed.
29. You may use ANY manufactures "clamp" motor heat sink. These are the ones that clamp to the motor can. You may not use heat sinks that bolt onto the chassis manufactured by a non-Tamiya brand.
30. **Motor Heat Sink Tech Rule:** The use of any manufacturer's clamp motor heat sink is legal; HOWEVER, it is illegal to form ice on your heat sink for racing.
31. It is forbidden to freeze the motor prior to qualifying or racing.
32. **Motor Fan Rule:** The use of any manufacturer's cooling fan is legal. However, the fan must be no larger than 1.5 in. X 1.5 in. or 40mm square, and must run off of the receiver or direct from the main battery pack. It is **ILLEGAL** to have a secondary battery to power the fan. No more than 2 fans total are permitted in a vehicle. **This includes the speed control fan.**
33. It is forbidden to crank the timing on the 540-J or Torque Tuned motor physically or through the use of rare earth magnets. This rule applies to all the classes that use the Tamiya 540-J or Torque Tuned silver can motor.
34. **Johnson 540-J and RS-540 Torque-Tuned motors used in any class are limited to 18,750 RPM.** This rule applies to classes that use item 53689, Tamiya 540-J motor and 54358, RS-540 Torque-Tuned Motor. **Measurement method: 18,750 RPM limit. Measured once only, 10 minutes after the race or sooner, using the Tamiya, Much More or Peak motor checker in "step mode" (7.2V) for 22 seconds. The top 3 of each race will have their motors' MAX RPM checked at the discretion of the race director. The car can not be taken back to the pits when selected for motor rules conformity. If the motors' MAX RPM exceeds the set limits, penalties such as disqualification of times will be given. Please note that the motor will be hot after running and will thus have 200-300 higher RPM. Adjust your break-in methods accordingly to conform to the rules and measurement method!!**
35. **All brushless motor classes** may use any ROAR legal and approved 21.5, 17.5, and 13.5 with the exception of the Trinity D3.5 based motors. Any motor sub-manufacturer that uses D3.5 based motors is also prohibited. For the current list of ROAR approved brushless motors visit the ROAR approved motor list page: [http://www.roarracing.com/approvals/print\\_brushlessmotors.php](http://www.roarracing.com/approvals/print_brushlessmotors.php)
36. **Brushless motor rules:** Tuning Rotors are legal. However, the tuning rotor must be one that is readily available by the manufacture that makes the legal motor you are using (no hybrids) and must not exceed 12.5mm in diameter. This is the same rule that ROAR uses for its 17.5 and 13.5 motor class rules. 13mm rotors are not legal for TCS nor are MOD rotors. Mod rotors or mod tuning rotors are not legal for TCS. In addition, you may not create a hybrid motor using one manufactures rotor or stack and another manufacture can etc. The motor you are using must be built per the specification that came out of the manufactures box.

## Tires and Wheels

37. Tire conditioners are allowed, but may be restricted at certain venues. (Some TCS host sites do not allow additives due to ventilation issues) **Note:** Tires may not enter the TECH inspection area in a **wet condition**.
38. **Tire Tech Rule:** In order to keep tech moving quickly and smoothly, tire warmers are not allowed in the tech inspection area. They may be used after the car has passed technical inspection.
39. It is not permitted to drill extra vent holes on the wheels for the purpose of altering the performance and grip level of the tire. Enlarging the existing vent hole is also prohibited. **Exception:** In the F-1 rubber class, when using items 1031 and 1032 (high grip rubber tires) on Tamiya wheels that don't have any holes (e.g. Tamiya foam wheels), it is permitted to drill one hole. **Note:** The hole may not exceed 2mm in diameter.
40. Any tire insert may be used in classes that have OPEN Tamiya tire rules. "Spec" pre-mounted rubber tire classes may not remove the installed Tamiya insert. Running rubber tires with no inserts is permitted and legal in the open tire classes.
41. **Asphalt Surfaces-GT-2, GT-1, GT-Pro Spec and FWD:** Competitors may use Tamiya's pre-mounted and glued spec tire/wheel. **Item:** 1015 Tamiya Pre-Mounted Tires Type B3 (24mm) or item 1030 Tamiya Pre-Mounted tires Type-A (24mm). **Note:** The B3 tire set (item 1015) comes with 5-spoke, gunmetal color wheels unique to the pre-mount set. (Pre-Assembled components: 53705, 53582, 53471) The Type-A tire (item 1030) is mounted on a standard 0-offset dish white wheel with hard insert (Pre-Assembled components: 53433/53435/53475).
42. **Carpet Surfaces-GT-2, GT-1, GT-Pro Spec and FWD:** Carpet track locations are exempt from the pre-mount tire rule. Carpet track locations may use any Tamiya 24 mm tires and wheels. (**Racers tip:** The C-Type compound (item 54256) is recommended for carpet tracks) This is the best Tamiya tire for carpet.
43. **M-Chassis classes may use any of the following Spec Pre-Mounted and glued tire sets:** A. **Item:** 1016 (Super Grip Radial w/foam insert-firm), B. 1028 (60D Type-A w/foam insert soft) and C. 1029 (60D Type-A w/foam insert hard) All tires are mounted on Suzuki Swift wheels. **Note: Any combination of these tires may be used to tune your car.**
44. It is not permitted to apply super glue on the horizontal surface of the tire to alter traction characteristics.

## Miscellaneous

45. Any modification to a car not called out specifically in these rules is **not legal**.
46. If a driver finds a loophole within the rules, the **exploitation** will be deemed illegal at the discretion of the race director.

## Best of Show/Concourse Rules

The concourse event provides racers an opportunity to display their artistic and creative talent in the form of an overall vehicle presentation. **"Best of show"** participants are encouraged to display an enhanced level of detail in all aspects of their vehicle's appearance. The event is a judged competition by vehicle type.

1. The body submitted for concourse consideration must be mounted on a fully assembled and operational chassis.
2. The body is not required to run in a heat race. Concourse bodies, if raced, must comply with all other rules and may not enhance the performance of the vehicle.
3. Concourse winners may be required to demonstrate the vehicles functionality if asked by the judges.
4. Dioramas or extra figures are not allowed during concourse judging. Driver figures inside the vehicle are permitted.
5. Wheels used must be Tamiya wheels. Wheels used must match kit-supplied size (i.e. you may not use 26mm wheels on an M-Chassis car). Appearance Modifications to the wheels is permitted.
6. You may only enter a best of show entry in relation to the class TYPE that you are registered in. I.E. A racer may not enter F-1 concourse if he/she is only racing in a GT class.
7. The following TCS class types are eligible to compete in the **"TCS Best of Show Concourse Award"**. **F-1**, **M-Chassis**, and **GT** (GT includes: GT1, GT2, GT-Spec/Novice/Pro, Euro Truck & FWD all together). **Note:** All the GT classes compete together for the overall GT Best of Show Concourse award.
8. As judges, we will be looking at many aspects of the finished product. Individually, we will score your car in different categories and the combined score of 3 judges will determine the winner in each class. We will be judging on, but not limited to, itemized categories as follows:

Body trim	Quality of body trimming
Paint	How clean is the paint applied? Symmetry, clean lines, quality
Wheel and tire details	
Mirror & body accessory details	
LED Light details	
Livery	How well does the livery represent a racecar, whether scheme duplication or fictitious
Interior details	Does the car have an interior, LED lights, brake/exhaust/etc.
Overall presentation	"Self-Explanatory"

The following pages describe class specific rules for each class offered at TCS regional races. The class specifics outline exceptions that are otherwise not noted in the General Rules section.

## CLASS SPECIFIC RULES

### GT Spec Novice

**The GT Spec class is for Novice drivers only.** This class is perfect for new drivers that have little to no experience and just getting into RC racing. Intermediate, Advanced and Expert drivers are not allowed in this class.

Skill Level: Novice Only

1. **Legal chassis platforms:** *TT-01, TT-01R, TT-01E, TT-01R-Type E, TT-02, TT02S and TT-02R*
2. The GT Spec class may use any Tamiya Hop-Up-Option designed specifically for the platforms allowed above. **Recommended:** Ball Bearing set, Speed Tuned Gear Set, Aluminum motor mount and Oil-filled dampers. These 4 Hop-Up-Options are all you really need.
3. The Kit type closed-end-bell, silver can motor (Mabuchi/Johnson) 540-J and RS 540 Torque Tuned motor (items 54358 & 53689) are the only two motor types allowed for the class.
4. You must run the kit type tires included with the TT kits: Example: Racing Slicks (50454), Racing Radials (50419), Racing Semi Slick Tires (50810). These are the only rubber/vinyl compounds allowed.
5. Medium Narrow 24mm tires and wheels are **NOT** allowed. All Tamiya Spec Class cars **MUST** use 26mm wheels and tires. **Note: The TT-02 R and S kits come with 24mm wheels and tires. You will have to switch to 26mm wheels and tires to be TCS Spec Class legal.**
6. Any Tamiya 190 mm GT or Sports car body is permitted.

### GT-2

**The Tamiya GT-2 class is open to all drivers.** This class is the perfect stage to compete against experienced and skilled drivers but with the lower cost of the "Tub" chassis models.

Recommended Skill Level: Advanced to Expert

1. **Legal chassis platforms:** Any TUB-type chassis XV-01, TT-01, TT-02, TA-01, 02, 03, 04, 05, 06, 07 and TB-03, TB-04 variants.
2. **Motor rules:** 17.5 motors on the ROAR legal and approved list may be used. See general rules above for the ROAR approved link and exceptions. **Note:** ROAR legal Tuned rotors are allowed as is physical timing advancement.
3. **No BOOST ESC (Electronic Speed Control) rules:** Any ROAR legal and approved ESC may be used capable of "Blinky-Mode". These ESC's must not use electronic timing (boost). See General Rules for ROAR approved "blinky" ESC list.
4. **Timing rules:** Physical motor timing is allowed. **Caution:** advancing the motor timing beyond the manufactures recommendations is at your own risk.
5. All GT-2 cars must meet a minimum weight of **1450 Grams**.
6. Any Tamiya 190 mm GT or Sports car body is permitted with the exception of the VERMAC 350R GT (AKA EBBRO 350R or Willcom/Shaken 408R) and any Honda NSX model years 2007 and older.
7. **Spec tires:** Pre-mount **B3** (warm weather tire) or **Type-A** (cold weather tire) pre-mounted and glued tires must be used on asphalt tracks (items 1015 & 1030). For Carpet Tracks you may use ANY Tamiya tire and wheel made by Tamiya. **Note: Tamiya's C-compound** tires work the best on carpet. (item 54256)

## GT-1

The Tamiya GT-1 class is open to all drivers. The premiere touring car class featuring the use of any Tamiya touring car chassis variant driven by experienced and skilled drivers.

Recommended Skill Level: Advanced to Expert

1. **Legal chassis platforms:** Any variant TRF 414,415,416,417,418, 419, TB EVO 1-6 and any variant XV-01, TA-05, TA-06, TA-07, TB-03 and TB-04.
2. **Motor Rules:** 13.5 motors on the ROAR legal and approved list may be used. See general rules above for the ROAR approved link and exceptions. **Note:** ROAR legal Tuned rotors are allowed as is physical timing advancement.
3. **No BOOST ESC (Electronic Speed Control) rules:** Any ROAR legal and approved ESC may be used capable of "Blinky-Mode". These ESC's must not use electronic timing (boost). See General Rules for ROAR approved "blinky" ESC list.
4. **Timing rules:** Physical motor timing is allowed. **Caution:** advancing the motor timing beyond the manufactures recommendations is at your own risk.
5. Any Tamiya 190 mm GT or Sports car body is permitted with the exception of the VERMAC 350R GT (AKA EBBRO 350R or Willcom/Shaken 408R) and any Honda NSX model years 2007 and older.
6. **Weight penalties:** Double deck "carbon fiber plate" GT-1 cars must meet a minimum weight of **1400 Grams**. Tub chassis vehicles have no minimum weight.
7. **Spec tires:** Pre-mount **B3** (warm weather tire) or **Type-A** (cold weather tire) pre-mounted and glued tires must be used on asphalt tracks (items 1015 & 1030). For Carpet Tracks you may use ANY Tamiya tire and wheel made by Tamiya. **Note:** **Tamiya's C-compound** tires work the best on carpet. (item 54256)

## M-Chassis

The Tamiya M-Chassis class is open to all drivers. M-Chassis is one of the most popular classes at TCS events. The M-Chassis class features low cost, fun and competitive racing.

Recommended Skill Level: Intermediate to Advanced

1. **Legal chassis platforms:** M05, M05 V2, and M06 platforms only.
2. Current TAMIYA Mini bodies available for the M03, M05 and M06 are legal and may be used on any chassis platform.
3. **Motor Rules:** You MUST use the **REEDY 21.5 MACH 3** motor for this class. (**Part #253**) **Note: YOU MAY ONLY** use the included rotor and stator. The output shaft has the number **273** number etched on it for easy identification during post tech inspection. [https://www.teamassociated.com/parts/details/253-ASC253-reedy\\_sonic\\_540-m3\\_motor\\_21\\_5\\_spec/](https://www.teamassociated.com/parts/details/253-ASC253-reedy_sonic_540-m3_motor_21_5_spec/) The same motor will be used for the 2017-2018 seasons.
4. **Timing Rules:** Physical motor timing is allowed. **However, you may not go beyond the manufacturer's maximum timing mark.**
5. **No BOOST ESC (Electronic Speed Control) rules:** Any ROAR legal and approved ESC may be used capable of "Blinky-Mode". These ESC's must not use electronic timing (boost). See General Rules for ROAR approved "blinky" ESC list.
6. Tamiya internal gears only. Aftermarket idler and spur gears are not legal.
7. **Battery rules:** Any Legal TCS battery. See General rules. **Note:** LIPO battery packs used in the M-Chassis class that are Sport Packs (a rounded profile) must be hard case batteries but are not required to be ROAR approved. Grinding the battery slot to fit rectangular batteries is not permitted.
8. All M-chassis cars must meet a minimum weight of **1300 grams**.
9. **Spec Tire rules:** You must use the pre-mounted and glued spec tires manufactured by Tamiya: items 1016, 1028 and 1029. Any combination of these tires may be used to tune your car. See rule #40 under "General Rules" for specifics. **Note:** This rule is enforced at every TCS location.

## F1 Rubber Tire

The Tamiya F1 class is open to all drivers. Open wheel racing at its best with rear wheel drive cars with rubber tires.

Recommended Skill Level: Intermediate to Advanced

1. **Legal chassis platform:** F104 Version I&II, F104GP (must use F104 front suspension), TRF101/102 & TRF101W (must use any F104/101 narrow front-end)
2. **Motor Rules:** You MUST use the **REEDY 25.5 MACH 3** motor for this class. **(Part #252) Note: YOU MAY ONLY** use the included rotor and stator. The output shaft has the number **273** number etched on it for easy identification during post tech inspection. <https://www.teamassociated.com/parts/details/252-ASC252-reedy-sonic-540-m3-motor-25-5-spec/> The same motor will be used for the 2017-2018 seasons.
3. **No BOOST ESC (Electronic Speed Control) rules:** Any ROAR legal and approved ESC may be used capable of "Blinky-Mode". These ESC's must not use electronic timing (boost). See General Rules for ROAR approved "blinky" ESC list.
4. **Timing rules:** Physical motor timing is allowed. **Caution:** advancing the motor timing beyond the manufactures recommendations is at your own risk.
5. **Tire Rules:** Tamiya F104 rubber tires only.
6. Tamiya F104 bodies only. Mixing Tamiya bodies and Tamiya wings is **NOT** permitted. You must use the wings that match the body set.
7. Tamiya Driver figure must be used.
8. No minimum weight.
9. "Short" servos may be mounted horizontally in place of a standard size servo called out in the manual. No modification to the servo holder is needed. Spacers between the Tamiya servo saver and the steering rods are allowed to achieve the correct clearance between the suspension arms.

## GT PRO Spec – Porsche 911 GT3 & Mercedes GT3 Cup

The GT PRO Spec Class is for anyone that wants to race head to head with racers of any skill level with equally spec'd race cars. The class allows beginner, intermediate and advanced drivers to compete together in an arena where driver skill level and car preparation determine success. This class is perfect for new drivers to move up to a higher level of competition and still race their entry-level TT-02 chassis, and great for the more advanced drivers to compete in a budget minded class.

Recommended Minimum Skill level: Any

- 1. Legal chassis platform:** TT-02 and TT-02R kits only. **Note:** TT-02 Type S kits are not legal for this class. TT-02 Type S Hop-Ups are not allowed.
- 2. Any TT-02 Hop-Up Option is legal with the exceptions listed below:**
- 3. Shocks:** Plastic Tamiya CVA shock unit only (item 50746) or kit friction dampers are allowed. **Note:** You may only use the kit 5 coil chrome spring, 7 coil chrome spring in the CVA shock unit set, and item 53440 RC On-Road Spring Set (Hard). These springs are blue, red, yellow, and white in the package for easy identification.
- 4. Suspension:** TT-02 Type S (short reversible suspension) kits are not allowed. Stock, plastic shock towers must be used. **Note:** Any Hop-Up-Option that is S-Type specific is prohibited.
- 5. Differential:** Item 54649 TT02 Diff Locking Block is permitted for the 2017 season.
- 6. Spur Gear:** Only Tamiya TT-02 stock and specified Tamiya speed-tuned spur gears are allowed.
- 7. Allowed spur gears are as follows:** **TT-02:** Stock 70T, Speed-Tuned 68T and 64T
- 8. Pinion Gear:** Pinion gear ratio options shown in Tamiya kit and the speed-tuned gear set motor mount chart instruction manuals may be used. Finding ways to exceed the maximum gear ratio shown in the manual chart is not allowed. **Maximum gear ratio:** 5.74:1 (64T Spur-29T Pinion)
- 9. Spec tires:** Pre-mount **B3** (warm weather tire) or **Type-A** (cold weather tire) pre-mounted and glued tires must be used on asphalt tracks (items 1015 & 1030). For Carpet Tracks you may use ANY Tamiya tire and wheel made by Tamiya. **Note:** **Tamiya's C-compound** tires work the best on carpet. (item 54256)
- 10. ESC:** You must use a ROAR legal "Blinky" enabled ESC. The Tamiya kit-included TBLE-02S brushless ESC is also allowed.
- 11. Motor Rules:** You MUST use the **REEDY 21.5 MACH 3** motor for this class. (**Part #253**) **Note:** **YOU MAY ONLY** use the included rotor and stator. The output shaft has the number **273** etched on it for easy identification during post tech inspection. [https://www.teamassociated.com/parts/details/253-ASC253-reedy\\_sonic\\_540-m3\\_motor\\_21\\_5\\_spec/](https://www.teamassociated.com/parts/details/253-ASC253-reedy_sonic_540-m3_motor_21_5_spec/) The same motor will be used for the 2017 season.
- 12. Body:** The 2017 GT Pro Spec body choices are: Porsche 911 GT3 Cup VIP 2007 (Item 51336) and the Mercedes-AMG GT3 (Item 51590) **The stock wing, mirrors must be used. Race wings are not permitted. No exceptions.**
- 13. Wheel hubs:** 4mm, 5mm and 6mm wheel hex hubs only. The kit includes 9mm plastic hex hubs which are not legal to use.
- 14. Recommended Hop-Up-Options:** Many Hop-Up Option can be used, but you only really need to consider the following 7:
  - Ball Bearing set: (item 54476)
  - Speed Tuned Gear Set: (item 54500)
  - Aluminum motor mount: (item 54558)
  - Plastic Oil-filled dampers: (items 50746-**highly recommended**, 53619, 50519).
  - Aluminum Prop-shaft: (item 54501)
  - TT02 Alum Propeller Joint (item 54502)
  - Steering Turn Buckle set: (item 53662).
  - Toe-In Rear-Uprights (TT-02 item 54549/2.5 degree & 54733/3.0 degree)
  - RC On-Road Spring Set (Hard) (item 53440)

**Note:** The Tamiya TT-02R kit (item 84409) comes with all of the above Hop-Up-Options. The GT Pro Spec class will be run at the 2017 Tamiya TCS Finals!

## Euro Semi-Truck GT

This is a pure box stock class open to any skill level hobbyist.

1. **Legal kits:** Item 58632 RC Team Hahn Racing MAN TGS (TT-01 type E chassis) & Item 58642 RC Team Reinert Racing MAN TGS (TT-01 type E chassis)
2. The kit must be built exactly per the instruction manual.
3. The ONLY Hop-Op Option permitted is Ball Bearings.
4. Must use stock pinion and spur gear.
5. The kit Tamiya TBLE-02S ESC and kit supplied motor must be used. Battery connector may be changed to DEANS. Motor Bullet connectors may not be removed.
6. All body parts must be used.
7. Body may be painted in any scheme.
8. Must use kit tires and wheels. Kit tires may be glued onto wheel.
9. Any grease or lube may be used to lubricate gears or moving parts.
10. **Batteries:** Any Reedy Wolf-Pack or Peak Racing Powermax round-case LiPo battery may be used for this class.

## TCS REGIONAL RACE EVENT FORMAT

- A. There must be at least 5 participants in each respective class for the class to be run.
- B. 5-minute qualifying heats.
- C. 6-minute main events.
- D. Two qualifying heat rounds are run. (Weather and time permitting)
- E. IFMAR qualifying format. All cars run on individual clocks.
- F. The best laps/time of each racer's single best heat race will determine the main event qualifying order.
- G. Regional TCS events run single "A" mains for one day events.
- H. Lower Main "Bump-Ups" are left to the discretion of the regional host site.
- I. All Main races are **heads-up** starts.

## PRIZES AND AWARDS

- A. Prizes and awards are given to the top 3 in the "A" Main of each class. (Gold, Silver and Bronze Medals plus product prizes)
- B. 1<sup>st</sup> place winners receive a Tamiya RC kit, 2<sup>nd</sup> place and 3<sup>rd</sup> place receive "Hop-Up" option prizes.
- C. The Top Qualifier in each class receives a certificate of achievement.
- D. The winners of "**Best of Show**" (award for the best-looking vehicle) receive a certificate of achievement and R/C body set.
- E. Every TCS participant at a regional event qualifies to receive one raffle ticket.

## HOW TO QUALIFY FOR THE 2017 TCS FINALS

After the end of the TCS season there is a TCS Finals Championship. It is held in Aliso Viejo, California, home of the Tamiya America Raceway track facility. Four classes are chosen at the beginning of the season where the champion of that class moves on to the Tamiya World Championships held at Tamiya's headquarters in Shizuoka-City, Japan.

In order to participate in the TCS Finals, all participants competing in a Tamiya World Championship class **must be legal citizens and permanent residents of the United States of America**. All other regions are excluded at this time.

In order to enter a "trip winning" TCS Finals class, you must have competed in that class during the **previous** or **current** regional season.

All TCS racers finishing in the top ten in any class automatically qualify for the Tamiya TCS Finals. Racers who did not finish in the top ten will be given first priority as "walk-ins" on a first come basis. Unqualified racers and walk-ins may not enter a trip winning class, which they have never raced in previously. You must have participated in the 2016 and or 2017 season to be eligible to take part in the TCS 2017 finals.

**EXCEPTIONS include:** **GT SPEC Novice, GT-Pro Spec, FWD, and Euro Semi-Truck**. If you are new to TCS, you may enter GT Spec Novice, GT-Pro Spec, FWD, and Euro Semi-Truck. The TCS Finals trip winning classes for **2017** are: **GT-1, GT-2, Formula 1** and **M-Chassis**. The winner of each eligible class is awarded a trip to Japan to compete in the Tamiya World Finals held in November 2017.

Former TCS champions who have won the trip to Japan are once again eligible to compete at the TCS Finals for another shot at the Tamiya World Championships. Read below for eligibility and details.

### Former TCS Finals winner eligibility rules and prize details

1. Former TCS champions may **ONLY** compete in the **GT-1** class. You will be competing against current TCS racers who have never won the grand prize.
2. **GT-2, M-Chassis** and **F-1** are classes reserved for TCS racers who have never won the trip to Japan.
3. If a former TCS champion wins the **GT-1** class they are not eligible to compete again for another two years (example: The 2016 winner is eligible to compete again in 2019). Furthermore, irrespective of what class you won a TCS "ticket to Japan" in 2016, you may not race in the GT-1 class until 2019.
4. In addition to the trip winning prize to Japan, **New** GT-1 class winners are eligible for a cash prize of \$500.00 and a product prize also valued at \$500.00 **Note:** Federal and State tax laws will apply to contingency awards. Tax forms must be completed before award(s) can be paid.
5. Former champions **MUST** compete in a 2017 TCS regional race (in the GT-1 class) to be eligible to qualify for the 2017 TCS Finals. Any non-champion may enter the GT-1 class as long as they have qualified in the **GT-1** class in the 2016-2017 seasons.
6. Tamiya America covers airfare and accommodations to the Tamiya World Championships for all trip-winning classes. **GT-1 class winner note:** Federal and State tax laws will apply to contingency awards. Tax forms must be completed before award(s) can be paid.

## Tamiya 2017 World Championship Notice and information:

The Tamiya World Championships are typically held the week before the Thanksgiving holiday in November.

TCS Finals winners who win the trip to Japan must have a valid U.S. passport 8 weeks prior to the trip to Japan. Signed waivers, racer information and questionnaire must be submitted to the TCS director 6 weeks prior to the trip.

Due to translation timelines and last minute changes, the 2016 rules and regulations may not be given to the TCS trip winners until 3 weeks prior to the event.

Trip winners must purchase spec batteries and motors either from Tamiya America or Tamiya Japan. These items are to be used for the World Championship race.

TCS Champs will be given a special promo code to [www.tamiyausa.com](http://www.tamiyausa.com) website. The code will allow you to purchase spare or option parts at a discount in preparation for the Tamiya World Championship.

**Notice to future National Champion trip winners:** A parent or legal guardian must accompany a TCS Finals trip winner, who is under the age of 18, or legally dependent. Tamiya America Inc. does not cover airfare, transportation, lodging and food for the legal parent or guardian. Tamiya America will provide an estimated cost to the parent/guardian for approval before booking travel. Final costs will be billed to the parent/guardian after all invoices are collected from the trip. Due to the logistics and scheduling during the Tamiya World Championships, additional friends and/or family are not permitted to accompany winners to Japan.

In the event that a Nationals trip winner is unable to attend the Tamiya World Championships for any reason beyond the control of Tamiya America Inc., an alternate will **NOT** be substituted. The class champion will be considered a "Past Champion" in all future TCS events and must compete accordingly as such.

## Changes from the 2016 Regulations

1. The GT-3 class has been removed. The class while popular in some areas is too redundant since most participants also race GT-2.
2. The 1/12GT class has been removed.
3. The FWD class has been removed, but will run at the TCS Finals as one of the "Exhibition" classes.
4. The M-03 chassis has been removed from the legal platforms allowed in the M-chassis class. It's time to retire a car that has been long discontinued.
5. A "BOX-STOCK" class has been added.
6. GT-Pro Spec now use the same tire rules as GT-1 and GT-2. Gives the Pro Spec class participants a chance to use the proper tire in cold weather and carpet conditions.
7. GT-Pro Spec class now includes a second body choice. Mercedes-AMG GT3 body (item 51590) may be used as well as the Porsche GT3 VIP Cup body set from last year. German car theme is the idea behind this change.
8. It is now legal to run the "RAIKIRI" Body set in the GT-1, GT-2 and GT-Spec-Novice classes.
9. It is now legal to use Item 54649 TT02 Diff Locking Block for the GT-Pro Spec Class.
10. The GT-1 and GT-2 classes will have specific motor wind legality per event location. Motor wind legality is now TCS location specific. 13.5, 17.5, and 21.5 motors have recently become so fast that adaptation is needed to accommodate different size tracks and attendance figures over the last several years. Some tracks are too small for 13.5 as an example. See Chart Below for motor legality for each specific TCS event including the TCS Finals.

<b>Location</b>	<b>GT-1 motor Rules</b>	<b>GT-2 motor rules</b>
RC Car World, NJ	17.5	21.5
Hobby Town USA Fresno, CA	13.5	17.5
Hobbytown USA/HobbyPlex, NE	17.5	21.5
180 Raceway, MD	17.5	21.5
RC Kinetics, NY	17.5	21.5
Tamiya America Raceway, CA	13.5	17.5
702 Raceway, NV	13.5	17.5
Access Hobbies, OH	17.5	21.5
RC Madness, CT	17.5	17.5
TQ RC Raceway, CA	17.5	21.5
Galaxy Hobby, WA	17.5	21.5
Brownies Hobbies @ Jackson RC, NJ	17.5	21.5
Tamiya America Raceway TCS Finals, CA	13.5	17.5

**Version: 2016 updated 12/9/16 (updates and addendums are highlighted in yellow for easy reference)**