



## Rules and Regulations 2019

### Table of Contents

#### Contents

DRIVER ELIGIBILITY .....	2
GENERAL RULES APPLYING TO ALL VEHICLES.....	3
Chassis .....	3
ELECTRONICS .....	4
BATTERIES .....	4
CAR BODY RULES.....	4
MOTOR RULES .....	5
TIRE & WHEEL RULES.....	6
MISCELLANEOUS.....	6
BEST OF SHOW/CONCOURSE RULES.....	7
CLASS SPECIFIC REGULATIONS .....	8
GT Spec Novice .....	8
GT-2.....	8
GT-1.....	9
M-Chassis .....	9
F1 Rubber Tire.....	10
GT PRO Spec – Porsche/Mercedes/Ford.....	10
Euro Semi-Truck GT.....	11
TCS REGIONAL RACE EVENT FORMAT .....	12
PRIZES AND AWARDS .....	12
HOW TO QUALIFY FOR THE 2019 TCS FINALS .....	12
Former TCS Champions eligibility and prize details .....	13
Tamiya 2019 World Championship Notice & Info: .....	13
Changes from the 2018 Regulations .....	14

## DRIVER ELIGIBILITY

Hobbyists of all ages are eligible to participate in the TCS series. Professional drivers are excluded from TCS. Sponsored hobbyists are also excluded with certain class exceptions noted in the class specific rules notes in each class section.

### Definitions

**Hobbyists:** Individuals who “purchase” all their hobby racing products.

**Professionals:** Individuals who are employed by a hobby manufacture or distributor in the hobby industry as paid R/C racers. “Factory Team” drivers (drivers who are, or have ever been, employed or supported i.e. receive FREE product, by a factory, manufacturer or distributor as part of a factory racing team)

**Sponsored:** Individuals that receive FREE or DISCOUNTED product from a hobby manufacture or distributor for the purpose of promoting their product though social media etc.

TCS host regional sites and Tamiya America will do their best to exclude professionals and sponsored individuals from TCS events.

**NOTE:** Hardcore hobbyist racers that get direct discounts from any R/C product manufacture are only eligible to race in the Tamiya **GT-1** Class. This expert class is intended for the hardcore hobbyist racer in mind.

### Former TCS Champions that won a Ticket to Japan:

Individuals that have won a “Ticket to Japan” Championship **ARE** eligible to participate in regional TCS races in any class. They are also eligible to win the first-place trophy/medal; however, former Champions that have won the “Ticket to Japan” are not eligible to win the product prizes associated with first place. Former champions **MUST** donate their first-place prize to the FREE general racer raffle.

All former “Ticket to Japan” 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. **Note:** Former “Ticket to Japan” winners must wait 2 years after winning their “Ticket to Japan” class before being eligible to participate in the GT-1 class for another trip to the Tamiya World Championships.

## SKILL LEVELS

There are classes for all skill levels. Make certain to read the class descriptions to see which class suites your skill level and budget.

### Definitions

**Expert:** Participants with a high degree of dexterous R/C driving ability

**Advanced:** Participants with proficient R/C driving ability

**Intermediate:** Participants with adequate R/C driving ability

**Novice:** Participants with early stages of R/C driving ability

## GENERAL RULES APPLYING TO ALL VEHICLES

Make sure to read race class specific rules for any restrictions from the general rules.

### 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. It is strictly forbidden to re-engineer or modify stock or Hop-Up-Options parts.
6. Tamiya suspension springs must retain the factory paint/coating. It is illegal to remove the paint/coating from the springs.
7. Chassis lightening (by means of milling parts) is prohibited in all TCS classes.
8. Lightweight screws and adjustable turnbuckles that are made of aluminum, steel or Titanium made by other manufactures is permitted. *(Be aware! If you win the Ticket to Japan national title, all screws and turnbuckles must be TAMIYA made when competing at the Tamiya World Championships!)*
9. The use 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 **Euro Truck** 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.
10. The use of O-Rings on shock ball ends and camber/steering links is permitted.
11. Changing the camber-link positions on the car other than the way it was intended per the instruction manual or "**chassis setting sheet**" is prohibited.
12. Camber links must be positioned in the existing bulkhead mounting holes. Drilling new camber link holes is not permitted.
13. 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 instruction.
14. You may alter the car in any way called out in the "**car instruction manual**" or "**chassis setting sheet**". If the "**chassis setting sheet**" calls out the adjustment, then it's legal to make the change to your car.
15. Any manufacture ball bearing may be used as a Hop-Up.
16. All cars must use TAMIYA servo savers or Tamiya Direct Servo Horns.
17. **Internal Drive Gears:** You must use the internal drive gears called out in the chassis assembly manual. The internal drive gears of ANY chassis platform may not be altered, changed or modified unless it is done with Tamiya Hop-Up Options designed for that specific purpose. 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 to squeeze in bigger pinion and spur gears.

## ELECTRONICS

1. Any brand radio system may be used.
2. **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.
3. 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 Electronic Speed Controls are NOT permitted. (Item #54417 Tamiya Active Steering Assist Unit TGU-01 is not legal for any TCS event in the United States).
4. Any class that uses a Brushless Motor must use an ESC (electronic speed control) that is ROAR approved. The list of [ROAR](http://www.roarracing.com/approved_non_timing_escs.php) legal ESC's may be found here: [http://www.roarracing.com/approved\\_non\\_timing\\_escs.php](http://www.roarracing.com/approved_non_timing_escs.php)
5. All electronics must be mounted in the chassis locations outlined in the instruction manual of your car.

## BATTERIES

1. Any ROAR approved Lithium-Polymer (Li-Po) battery may be used for any TCS class. Check the ROAR approved Lithium-Polymer (Li-Po) battery list here: [http://www.roarracing.com/approved\\_lipo\\_batteries.php](http://www.roarracing.com/approved_lipo_batteries.php)
2. Sport Ni-Cd and Ni-Mh batteries are legal for TCS racing. (these do not need ROAR approval)
3. TCS legal Lithium-Polymer (Li-Po) must be 7.4/7.6 volts 2S-1P/2P specification or 4.2 1S for 1/12 scale racing.
4. **NOTE:** Despite the ROAR approved list, Sport Packs (round HARD case Lithium-Polymer (Li-Po) batteries) may be used on Tamiya models where only a round case battery will fit. This type of battery does not need to be ROAR approved.
5. **LIPO Battery TECH rules:** In the interest of safety and fairness, all LIPO batteries will be volt metered during TECH Inspection. 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.
6. All LiPo batteries must be charged in a LiPo sack at all TCS events!
7. Any battery connector is allowed to be used in all classes.

## CAR BODY RULES

1. All car bodies must be painted and must be cut along the molded trim lines.
2. Removing material beyond/above the trim line is prohibited.
3. Leaving extra material below the trim lines of the body is also prohibited.
4. You are not allowed to create extra vent holes for the purpose of ventilation or performance enhancement.
5. All car bodies must use the wings that are supplied in the kit or they may be fitted with any TAMIYA Hop-Up Option Wing Set, as long as the body has the dimple marks molded for the option wing sets.
6. Mixing and matching the included ABS plastic wings, between different body styles, is not allowed.

## MOTOR RULES

1. Any motor connector or direct hard wiring to the motor is allowed. **NOTE:** Except for the **Euro Truck** class!
2. Bolt-on off-brand, after-market heat sinks to the motor can is not permitted.
3. It is forbidden to freeze the motor prior to qualifying or racing.
4. 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 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.**
5. It is forbidden to crank the physical timing mechanically or through the use of rare earth magnets. This rule applies to all the classes that use the Tamiya 540-J/Mabuchi or Torque Tuned silver can motor.
6. It is FORBIDDEN to "COOK" brushless motor rotors to weaken magnet strength.
7. **All Silver-CAN Johnson 540-J, RS-540 Torque-Tuned motors are limited to 23,500 RPM maximum RPM.** This rule applies to classes that use item 53689, Tamiya 540-J motor and 54358, RS-540 Torque-Tuned Motor. Measurement method: 23,500 RPM limit. Measured once soon after the qualifying or main race 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 cannot 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!!
8. **Brushless motor classes:** See class specific rules for the legal motor/s for each class.
9. **Brushless motor rules:** Tuning Rotors are legal in classes where a specific "spec" motor is not used. 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 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.

## GT-1 & GT-2 Spec Motor Turn Matrix

TCS Event 2019	GT-1 motor Rules	GT-2 motor rules
RC Car World New Jersey	17.5	21.5
Hobbytown USA/Hobbyplex Nebraska	17.5	21.5
180 Raceway Maryland	17.5	21.5
Revelation Raceway California	13.5	17.5
Windy City RC Illinois	13.5	21.5
702 Raceway Las Vegas	13.5	17.5
Access Hobbies Ohio	17.5	21.5
RC Madness Connecticut	17.5	21.5
TQ RC Raceway California	17.5	21.5
Hobbytown USA Fresno, California	13.5	17.5
Galaxy Hobby Lynnwood, Washington	17.5	21.5
Brownies Hobbies @ Jackson RC New Jersey	17.5	21.5
Hobbytown USA/Hobbyplex NE (TCS FINALS)	17.5	21.5

## TIRE & WHEEL RULES

1. Tire conditioners are allowed, but may be restricted at certain venues. (Some TCS host sites do not allow additives due to ventilation issues)
2. Tires may not enter the TECH inspection area in a **wet condition**.
3. Tire warmers are not allowed in the tech inspection area. They may be used after the car has passed technical inspection.
4. 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.
5. Any tire insert may be used in classes that have OPEN Tamiya tire rules.
6. "Spec" pre-mounted rubber tire classes may not remove the installed insert.
7. It is not permitted to apply super glue on the horizontal surface of the tire to alter traction characteristics.
8. Running rubber tires with no inserts is permitted and legal in the open tire classes.
9. **Asphalt Surface Races: GT-2 & GT-1 classes: House Spec Tire Rules.** See Matrix Below for Specific Location House Tires used.
10. **Carpet Surfaces Races: GT-2 & GT-1 classes:** See Matrix Below for Specific Location House Tires used.
11. **M-Chassis, F1, Euro Truck, GT Novice, and GT Pro Spec** must use the specified **Tamiya branded** tires called out in the class specific rules. See class specific rules.

TCS Event 2019	GT-1 & GT-2 Spec Tire to use
RC Car World New Jersey	Sweep 32
Hobbytown USA/Hobbyplex Nebraska	Tamiya Type C
180 Raceway Maryland	Gravity RC
Revelation Raceway California	Sweep 36 EVOR
Windy City RC Illinois	Gravity RC
702 Raceway Las Vegas	Tamiya Type C
Access Hobbies Ohio	Tamiya Type C
RC Madness Connecticut	Gravity RC
TQ RC Raceway California	JACO TC Blue Pre-Mounted
Hobbytown USA Fresno, California	Solaris 36
Galaxy Hobby Lynnwood, Washington	Solaris 36
Brownies Hobbies @ Jackson RC New Jersey	Team Powers 34r
Hobbytown USA/Hobbyplex NE (TCS FINALS)	Tamiya Type C (This may change)

## MISCELLANEOUS

1. Any modification to a car not called out specifically in these rules is **not legal**.
2. 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 following TCS class types are eligible to compete in the **"TCS Best of Show Concourse Award"**. **F-1, M-Chassis, GT, and Euro Truck** **NOTE:** (GT includes: GT1, GT2, GT-Spec/Novice/Pro, & FWD all together).
2. The body submitted for concourse consideration must be mounted on a fully assembled Tamiya chassis.
3. 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.
4. Dioramas or extra figures are not allowed during concourse judging. Driver figures inside the vehicle are permitted.
5. Wheel and tires used must be Tamiya.
6. Appearance Modifications to wheels is permitted.
7. 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.
8. As judges, we will look at many aspects of the finished product. Individually, we will judge your car in different categories subjectively. 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	"Self-Explanatory"
Mirror & body accessory details	"Self-Explanatory"
LED Light details	"Self-Explanatory"
Livery	How well does the livery represent a racecar? Replica or fictitious
Interior details	Does the car have an interior, LED lights, brake/exhaust/etc.
Overall presentation	"Self-Explanatory"

## CLASS SPECIFIC REGULATIONS

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.

### GT Spec Novice

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

**Recommended Skill Level:** [Novice Only](#)

- 1. Legal chassis platforms:** *TT-01, TT-01R, TT-01E, TT-01R-Type E, TT-02, TT02S TT-02R, and TT-02RR*
- 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.
- 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. They come with all TT kits. **See General Rules for Motor RPM limits.**
- Any TAMIYA** rubber tire and wheel may be used. 24mm and 26mm width wheels/tires are permitted.
- Any Tamiya 190mm GT or Sports car body is permitted.

### GT-2

This class is the perfect stage to compete against experienced and skilled drivers but with the lower cost of Tamiya "Tub" chassis models. Professional and Sponsored individuals are not allowed to race in this class.

**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, and TB-05 variants.
- 2. Recommended chassis platform:** TA-07 or TB-05. These two platforms are the latest that Tamiya has to offer and the current fastest machines in this class.
- 3. SPEC Motor rules:** Participants in this class must use the **REEDY SONIC FT** fixed timing 17.5/21.5 motors. Item #'s [293](#) & [297](#) respectively. See the TCS Location Motor Matrix to see what turn motor is used for each event.
- 4. 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.
- 5. Minimum weight:** **1410** Grams.
- 6. Legal race bodies:** Any Tamiya 190mm GT or Sports car body is permitted with the exception of the VERMAC 350R GT (AKA EBBRO 350R/Willcom/Shaken 408R) and any Honda NSX model years 2007 and older.
- 7. Spec tire rules:** See Spec-Tire Matrix in Tire/wheel section to see what tire is legal for each regional race location.

## GT-1

This is the premiere touring car class featuring the use of any Tamiya touring car variant driven by very 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 1-7 and any variant XV-01, TA-05, TA-06, TA-07, TB-03, TB-04, and TB-05.
- 2. Recommended chassis platform:** TRF419 series or TA-07MS. These two platforms are the latest that Tamiya has to offer and the current fastest machines in this class.
- 3. Spec Motor Rules:** Participants in this class must use the **REEDY SONIC FT** fixed timing 13.5/17.5 motors. Item #'s [293](#) & [294](#) respectively. See the TCS Location Motor Matrix to see what turn motor is used for each event.
- 4. 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.
- 5. Minimum Weight:** TRF "carbon fiber plate" GT-1 cars must meet a minimum weight of **1375 Grams**. Tub chassis vehicles have no minimum weight.
- 6. Legal race bodies:** Any Tamiya authentic replica 190mm GT or Sports car body is permitted.
- 7. Spec tire rules:** See Spec-Tire Matrix in Tire/wheel section to see what tire is legal for each regional race location.

## M-Chassis

M-Chassis is one of the most popular classes at TCS events. The M-Chassis class features low cost, fun and competitive racing with mid-sized FWD and RWD machines. Professional and Sponsored individuals are not allowed to race in this class.

**Recommended Skill Level:** [Intermediate to Advanced](#)

- 1. Legal chassis platforms:** M05, M05 V2, M06, and M-07 platforms only.
- 2. Recommended chassis platform:** M-07. This is the most current and fastest car in the class.
- 3. Spec Motor Rules:** Participants in this class must use the **REEDY SONIC FT** fixed timing 21.5 motor. Item [#297](#). This motor will be used at the TCS Nationals as well.
- 4. 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.
- 5. Minimum weight:** All M-chassis cars must meet a minimum weight of **1300 grams**.
- 6. Legal race bodies:** Any Tamiya M-chassis body.
- 7. Spec tire rules:** You must use the **Tamiya S-Grip Radial Tire** (#53254), Suzuki Swift white spoke wheel (#51237), and Super Hard Inner Foam (#54590) or Hard Inner Foam (#53255) for this class. **Note:** You must assemble this specification tire yourself. This is the ONLY tire/wheel/inserts combination allowed for the class.  
**Caution:** [Assembled tires may not exceed 60MM in diameter!](#)
- 8. Gearing:** 20 tooth maximum pinion size for the M-07 & 20T for all other chassis variants.

## F1 Rubber Tire

Open wheel racing at its best with rear wheel drive cars and rubber tires.

**Recommended Skill Level:** [Advanced to Expert](#)

- 1. Legal chassis platform:** F104 Version I&II, ProII, F104GP (must use F104 front suspension), TRF101/102/103 & 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 and or #287 "ROAR SPEC"**) **Note: YOU MAY ONLY** use the included rotor and stator. The output shaft has the number **273 and 286 (ROAR Spec Version)** number etched on them for easy identification during tech inspection.  
[https://www.teamassociated.com/parts/details/252-ASC252-reedy\\_sonic\\_540-m3\\_motor\\_25\\_5\\_spec/](https://www.teamassociated.com/parts/details/252-ASC252-reedy_sonic_540-m3_motor_25_5_spec/) & [https://www.teamassociated.com/parts/details/287-ASC287-reedy\\_sonic\\_540-m3\\_motor\\_25\\_5\\_roar\\_spec/](https://www.teamassociated.com/parts/details/287-ASC287-reedy_sonic_540-m3_motor_25_5_roar_spec/) The same motors will be used for the 2018-2019 seasons.
- 3. Must use a No BOOST ESC (Electronic Speed Control):** Any ROAR legal and approved ESC capable of "Blinky-Mode" may be used. 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. Body Rules:** 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. Minimum weight:** 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/Mercedes/Ford

The GT PRO Spec Class is for anyone that wants to race head to head with racers of any skill level with budget minded and 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 machine, and great for the more advanced drivers who want to compete in a budget class.

**Recommended Minimum Skill level:** [Intermediate to advanced](#)

- 1. Legal chassis platform:** TT-02, TT-02R, TT-02RR kits only. **Note:** TT-02 Type S kits are not legal for this class nor TT-02 Type S specific Hop-Ups.
- 2.** Any TT-02 Hop-Up Option is legal with the **exceptions listed in RED: No aluminum shocks. No carbon shock towers.**
- 3. Shocks:** The only Hop-Up shock allowed is the Tamiya CVA plastic shock units (item 50746)
- 4. Springs:** You may only use the kit supplied 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.
- 5. Spur Gears permitted:** Tamiya TT-02 stock and TT-02 Tamiya speed-tuned spur gears are allowed. **TT-02:** Stock 70T, Speed-Tuned 68T and 64T
- 6. Pinion Gears permitted:** Pinion gear ratio options shown in the TT-02 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 charts is not allowed. **Maximum gear ratio from the speed tuned gear set:** 5.74:1 (64T Spur-29T Pinion)

7. **Spec tire rules:** Tamiya **Type B3** (Warm weather), **Type A** (Cold weather), and **Type C** (Carpet Surface) compound tires only. You may use ANY Tamiya 24mm spoke wheels and ANY tire insert is allowed. **Note: Tamiya's C-compound** tires work the best on carpet. (item 54256)
8. **Must use a No BOOST ESC (Electronic Speed Control):** Any ROAR legal and approved ESC capable of "Blinky-Mode" may be used. These ESC's must not use electronic timing (boost). See General Rules for ROAR approved "blinky" ESC list.
9. **SPEC Motor rules:** Participants in this class must use the **REEDY SONIC FT** fixed timing 21.5 motor. Item # [297](#).
10. **Body:** The 2019 GT Pro Spec body choices are: **Porsche 911 GT3 Cup VIP 2007** (Item 51336) **Mercedes-AMG GT3** (Item 51590) and **Ford Mustang GT4** (Kit item 58664-body item 51614) **NOTE: The stock wing and mirrors must be used. Hop-Up Option Race wings are not permitted.**
11. **Wheel hubs:** 4mm, 5mm and 6mm wheel hex hubs only. The TT-02 kits include 9mm plastic hex hubs which are not legal to use.
12. **Recommended Hop-Up-Options:** Many Hop-Up Option may be used, but you only really need to consider the following 7:
  - Ball Bearing set: (item 54476)
  - Speed Tuned Gear Set: (item 54500) **highly recommended**
  - Aluminum motor mount: (item 54558) **highly recommended**
  - 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 or 47326) comes with all of the above Hop-Up-Options. **NEW** 47382 TT-02RR Chassis Kit also comes with all the Hop-Up Options you need.

## Euro Semi-Truck GT

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

**Recommended Minimum Skill level:** [Novice](#), [Intermediate](#) to [Advanced](#)

1. **Legal kits:** Item 58632 Team Hahn Racing MAN TGS (TT-01 type E chassis), 58642 Team Reinert Racing MAN TGS (TT-01 type E chassis) & 58661 Buggyra Racing Fat Fox (TT-01 type E chassis)
2. The kit must be built **EXACTLY** per the instruction manual.
3. The **ONLY** Hop-Up Options permitted are Ball Bearings (ANY BRAND) and a Tamiya servo saver.
4. Must use the stock pinion and spur gear.
5. Must use the kit supplied Tamiya TBLE-02S ESC
6. Must use the kit supplied motor (item 54358 **RS-540 Torque-Tuned Motor**)
7. Battery connector on ESC may be changed to **DEANS type**.
8. The **Motor Bullet Connectors** may not be removed.
9. The ESC & Motor wires may not be shortened!
10. All body parts must be used.
11. All screws in the kit must be used. I.E. You may not omit screws to change the handling of the truck.
12. **No Minimum or Maximum Weight:** No weights of ANY KIND may be put on the truck for ballast.
13. Adding FOAM material to the kit foam bumper is permitted.
14. Must use kit type tires and wheels. **Note:** Kit tires may be glued onto wheel.
15. Any grease or lube may be used to lubricate gears or moving parts.
16. **Batteries:** Any stick-pack type, hard round case LiPO, NiCD, or Ni-MH is permitted. Examples: Reedy Wolf-Pack or Peak Racing Powermax batteries.

## 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. Regional TCS events run TRIPLE "A" mains for two-day events.
- I. Lower Main "Bump-Ups" are left to the discretion of the regional host site.
- J. 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 qualifies to receive one **FREE** raffle ticket.

## HOW TO QUALIFY FOR THE 2019 TCS FINALS

After the end of each TCS season there is a TCS Championship Finals. There are many race class categories in which participants compete for a National Championship title. Three of these class categories have an extra grand prize at stake. A "**Ticket-to-Japan**", a paid travel expense is awarded to the 1<sup>st</sup> place championship winners. Furthermore, these 3 class winners move onto the Tamiya World Championships to compete for a Tamiya World Title. The World Championships is held each November at Tamiya Inc's headquarters in Shizuoka, 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 "Ticket to Japan" class, you must have competed in that class during the **previous** or **current** regional racing season.

For all other classes, 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 are 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 2018 and or 2019 season to be eligible to take part in the TCS 2019 finals.

**EXCEPTIONS include: GT Spec Novice, GT-Pro Spec, F1, and Euro Semi-Truck.** If you are new to TCS, you may enter GT Spec Novice, GT-Pro Spec, F-1 and Euro Semi-Truck.

The 2019 TCS Finals "**Ticket to Japan**" classes are: **GT-1, GT-2,** and **M-Chassis**.

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

## Former TCS Champions eligibility and prize details

1. Former TCS "Ticket to Japan" champions may **ONLY** compete in the **GT-1** class for another shot to JAPAN. You will be competing against current TCS racers who have never won the grand prize.
2. **GT-2**, and **M-Chassis** 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 2018 winner is eligible to compete again in 2021). Furthermore, irrespective of what class you won a TCS "Ticket to Japan" in 2018, you may not race in the GT-1 class until 2021. You are free to race in any other non "Ticket to Japan" class.
4. In addition to the "Ticket to Japan" prize, **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 2019 TCS regional race to be eligible to qualify for the 2019 TCS Finals. Any non-champion may enter the GT-1 class as long as they have qualified in the **GT-1** class in the 2018-2019 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 2019 World Championship Notice & Info:

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 2019 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 2018 Regulations

**ALL CHANGES ARE HIGHLIGHTED IN YELLOW THROUGHOUT THE DOCUMENT ABOVE.**

- 1.** The GT-1, GT-2, M-Chassis, and GT Pro Spec classes must now use REEDY FT (Fixed Timing Motors) as the Spec Motor. The previous Reedy 21.5 motor has been discontinued for those of you who raced Mini and GT Pro Spec. These will be the same motors that we will use for the 2019 TCS Finals.
- 2.** We have cleaned up the concourse rules.
- 3.** We have added the NEW TT-02RR chassis as an eligible chassis for the GT Pro Spec and GT Novice class.
- 4.** We have added the new Buggyra Fox Euro Truck as an eligible kit for the Euro Truck class.
- 5.** We have cleaned up the rules wording all around to keep things simpler hopefully...
- 6.** We will be adding a two new eligible chassis machines to M-chassis class in early FEB (New product announcements are coming)
- 7.** All cars must use TAMIYA servo savers or Tamiya Direct Servo Horns.
- 8.** All electronics must be mounted in the chassis locations outlined in the instruction manual of your car.
- 9.** Bolt-on heat sinks to the motor can is not permitted. (off-brand)
- 10.** Cooking brushless motor rotors is forbidden.
- 11.** We will be adding a new GT body that you can use in the GT Pro Spec class in early FEB. (New product announcement is coming)

## 2019 addendums:

NONE YET!

- A. We have changed rule 12 of the Euro-Truck class to read: **No Minimum or Maximum Weight:** No weights of ANY KIND may be put on the truck for ballast. This was done as we have been seeing the spirit of the BOX STOCK class slowly being ruined with creative tuning using weights.
- B. We have expanded the GENERAL RULES to clarify that you are not allowed to modify stock or Hop-Up-Option parts. 5. It is strictly forbidden to re-engineer or modify stock or Hop-Up-Options parts.