



## Rules and Regulations 2014

### Driver Eligibility

All radio control car-racing "hobbyists" are welcome to race regional TCS events. Whether you're new to the sport or a seasoned racing hobbyist, we invite you to participate and join the fun. Fun and fair competitive racing is the goal of 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 best.

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

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

**Advanced:** Drivers with proficient driving ability

**Intermediate:** Drivers with adequate driving ability

**Novice:** 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 received or receive sponsorship entailing a monthly salary from a factory/manufacturer and received 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 criteria and definition of "factory/sponsored driver". Tamiya America cannot know every individual's claims of who is or isn't a sponsored or factory driver and therefore relies on the judgment and discretion of the host site to weed out the factory/sponsored driver that do not meet the average hobbyist criteria.

### **Note for Host Sites:**

Host sites must be careful not to confuse racers who get a deal from their friends that are employed or work for "motors R us" 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.

Marc Rheinard and Viktor Wilck are prime examples of racers that Tamiya America would not allow to compete. These individuals are clearly supported by a factory and would not be eligible to compete as Tamiya America supports their racing careers 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 at these regional races; 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 that won the trip to Japan are eligible to participate at the TCS Finals under the "Past Champions" grudge match class and 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 again at the Nationals in a trip winning class.

## General Rules Applying to All Vehicles and classes

### 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. (This applies to all classes)
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. i.e. any screw or turnbuckle is legal. ***(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 space out the slop or play in suspension arms, steering bell-cranks and wheel axles is permitted in all vehicles except in the Novice Spec GT class. 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 is prohibited.
11. Camber links must be positioned in the mounting holes they were originally drilled for. 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.

### ELECTRONICS

15. 2.4 GHz, 27 MHz or 75 MHz are the only radio frequencies permitted. A minimum of 2 alternate channel frequencies is required when using 27 MHz and 75 MHz radios.
16. **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.

- 17.** 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).

## BATTERIES

- 18.** 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. See the ROAR approved list found here: <http://www.roarracing.com/approvals/sbattery.php>
- 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 to the 7.4 Volt 2S-1P and 4.2 1S batteries that are permitted for TCS:  
[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 i.e. Orion, Peak, Reedy, Duratrax, Dynamite, Trinity and Hobbico etc.
- 19.** 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 and have a solid colored shrink-wrapping to them. 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.
- 20.** **LIPO TECH rules:** In the interest of safety and fairness, all LIPO batteries will be volt metered at 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. If they do you will not be permitted to race your qualifier or main race.
- 21.** **All LiPo batteries must be charged in a LiPo sack!**
- 22.** Any battery connector or direct hard wiring to the battery is allowed.

## Car Body

- 23.** 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.
- 24.** 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.
- 25.** 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

26. Any motor connector or direct hard wiring to the motor is allowed.
27. 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.
28. **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 use during your race or qualifying heat.
29. It is forbidden to freeze any motor prior to qualifying or racing.
30. **Motor Fan Rule:** The use of any manufacturer's cooling fan is legal. However, the fan must be no larger than 1.5 in. by 1.5 in. 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.**
31. 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.
32. **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 after the race heat or main, using the Tamiya, Much More or Peak motor checker in "step mode" (7.2V) for 22 seconds.** The top 3 of each Qualifying or Main race will have their motors' MAX RPM checked at the discretion of the race director or lead tech official. 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!!
33. **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 TCS 2014 season. 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)
34. **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 13.5, 17.5 and 21.5 motor classes. In addition, you may not create a hybrid motor using one manufactures rotor or stack and another manufactures can etc. The motor you are using must be built per the specification that came out of the manufactures box.

## Tires and Wheels

35. Tire conditioners are allowed on rubber/foam tires in all classes, 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**.
36. **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.
37. It is not permitted or legal to drill extra vent holes on the vehicles wheels for the purpose of altering the performance and grip level of the tire. Enlarging the existing vent hole is also illegal. **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: hole should not exceed 2mm in diameter.

- 38.** Any tire insert may be used in the open Tamiya rubber tire classes. "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.
- 39.** GT-3, GT-2, GT-1 and FWD must use Tamiya's pre-mounted and glued spec tire/wheel. Items: 1015 Tamiya Pre-Mounted Tires Type B3 (24mm) and item 1030 Tamiya Pre-Mounted tires Type-A (24mm). NOTE: The B3 tire set (item 1015) comes with 5-spoke, gunmetal color wheel 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). (Carpet track locations are exempt from this rule) Carpet track locations may use any Tamiya 24 mm tires and wheels. (Racers tip: The new C type compound is recommended for carpet tracks)
- 40.** M-Chassis classes must use the Spec 60D Pre-mounted tire sets available. Items: 1016 (Super Grip Radial w/foam insert-firm), 1028 (60D Type-A w/foam insert soft) and 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.**

## MISCELLANEOUS

- 41.** Any modification to a car not called out specifically in these rules is **not legal**.
- 42.** If a driver finds a loophole within the rules, the **exploitation** will be deemed illegal at the discretion of the race director or the LEAD Tech inspection official.

## 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 class, based on a cumulative score by the following set criteria.

- 1.** The body submitted for concourse consideration must be mounted on a fully assembled and operational chassis that is entered in the race event.
- 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. Serious contenders for concourse (Best of Show) should be ready to demonstrate the vehicles' functionality during or after judging if requested.
- 4.** Dioramas or extra figures are not allowed during concourse judging. Driver figures inside the vehicle are permitted.
- 5.** Wheels used for concourse/best of show must be Tamiya wheels. Wheels used must match kit-supplied size (i.e. no 26mm wheels on a Mini). Appearance Modifications to the wheels is permitted.
- 6.** You may only enter a best of show or concourse entry in relation to the class that you are entered/racing in. I.E. A racer may not enter F-1 concourse if he/she is only racing in the GT-2 class.
- 7.** The following TCS classes are eligible to compete in the "TCS Best of Show Concourse Award". **F-1, M-Chassis, GT** (includes: GT1, GT2, GT3 & FWD all together) and **1/12 GT**. 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.**

## GT Spec Novice Rules

**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 and TT-02.**
- 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 this 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.
- 6.** Any Tamiya 190 mm GT or Sports car body is permitted.

## GT-3 Rules

**The Tamiya GT-3 class is for novice to intermediate skill level racers only.** GT-3 is the perfect stepping stone for drivers coming from GT Spec to experience the next level in racing. Advanced and Expert drivers are not allowed in this class. It's the host sites discretion to police over qualified racers from the class.

Recommended Skill Level: Intermediate

- 1. Legal chassis platforms:** Any TUB-type chassis XV-01, TT-01, TT-02, TA-01, 02, 03, 04, 05, 06, FF-03 and TB-03, TB-04 variants. *Item 84314 FF-03 Chassis Upgrade Set is allowed.*
- 2. Motor rules:** The GT-3 class may use either the Tamiya 540-J Johnson motor (item 53689), RS-540 Torque-Tuned Motor (item 54358) or any ROAR legal and approved 21.5 brushless motor. See general rules from the ROAR list link and exceptions. Note: ROAR legal Tuned rotors are allowed as is physical timing advancement. Note: see general rules above for specifics.
- 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 4WD GT-3 cars must meet a minimum weight of **1450 Grams**. No weight minimum for FWD GT-3 Cars.
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 variant.
7. **Spec tires:** Pre-mount B3 tires must be used on asphalt tracks (item 1015). Any Tamiya tire and wheel may be used for indoor carpet tracks. Note: Tamiya's C-compound tires are best for carpet. (item 54256)

## GT-2 Rules

[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 cars.

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 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 list 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).
7. **Spec tires:** Pre-mount B3 tires must be used on asphalt tracks (item 1015). Any Tamiya tire and wheel may be used for indoor carpet tracks. Note: Tamiya's C-compound tires are best for carpet. (item 54256)

## GT-1 Rules

[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,TB EVO 1-5 and any variant XV-01, TA-05, TA-06, 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 list 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.
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 tires must be used on asphalt tracks (item 1015). Any Tamiya tire and wheel may be used for indoor carpet tracks. Note: Tamiya's C-compound tires are best for 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:** M03, M05 and M06
2. Current TAMIYA Mini bodies available for the M03, M05 and M06 are legal.
3. Any Tamiya MINI body parts set made for the M-03, M-05 and M-06 may be used on any chassis platform.
4. **Motor Rules:** 21.5 motors on the ROAR legal and approved list may be used. See general rules above for the list link and exceptions. Note: ROAR legal Tuned rotors are allowed as is physical timing advancement.
5. **Timing Rules:** Physical motor timing is allowed. **However, you may not go beyond the manufacturer's maximum timing mark.**
6. **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.
7. Tamiya internal gears only. Aftermarket idler and spur gears are not legal.
8. **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.
9. All M-chassis cars must meet a minimum weight of **1300 grams**.
10. **Spec Tire rules:** The Mini class must use the Tamiya pre-mounted and glued spec tires manufactured by Tamiya: items 1016, 1028 and 1029. 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) and TRF101
2. **Motor rules:** **The F1 class may use either the Tamiya 540-J Johnson motor, item 53689, RS-540 Torque-Tuned Motor, item 54358 or 21.5 motors on the ROAR legal and approved list may be used.** See general rules above for the list 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. 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.

## F1 FOAM

[The Tamiya F1 FOAM class is open to all drivers.](#) Open wheel racing at its best with rear wheel drive cars with foam tires.

Recommended Skill Level: Intermediate to Advanced

1. **Legal chassis platform:** F104 Version I&II, F104W and F104WGP
2. **Motor rules:** The F1 class may use either the Tamiya 540-J Johnson motor, item 53689, RS-540 Torque-Tuned Motor, item 54358 or 21.5 motors on the ROAR legal and approved list may be used. See general rules above for the list 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. F104 standard chassis cars may only use F104 FOAM tires and wheels. **F104 FOAM Item #'s include:** 54167, 54168, 51384 and 51385. F104W and F104WGP chassis cars may only use F103 FOAM tires and wheels: **F103 FOAM Item #'s include:** 54135, 84097, 84096, 84095 and 84094. **Note: FOAM tires may only be used for Indoor Carpet track TCS races.**
6. Mixing and matching F103 and F104 foam rubber is not permitted.
7. Cutting compounds and re-gluing them to create firm/soft hybrids is not permitted.
8. Tire width trimming is not permitted. The entire width of the Tamiya tire must be used.
9. Mixing Tamiya bodies and Tamiya wings is NOT permitted. You must use the wings that match the body set.
10. Tamiya Driver figure must be used.
11. No minimum weight.
12. "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.
13. F104 standard chassis cars are allowed to add the F103 front end to make them F104W or F104WGP version chassis machines. Conversely, F104W and F104WGP chassis cars may use the F104 front end to make them standard F104 chassis machines.

## 1/12 GT

[The Tamiya 1/12 GT class is open to all drivers.](#) The 1/12<sup>th</sup> GT class features the lightweight and agile RM-01 "Pan" type chassis with foam tires.

Recommended Skill Level: Advanced to Expert

1. Legal chassis platform: RM-01
2. **Motor Rules:** 13.5 motors on the ROAR legal and approved list may be used. See general rules above for the list 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. **Battery rules:** ROAR Legal LiPo 3.7 volt 1S battery packs.
6. **Wheel & Tire Rules:** Tamiya foam tires and wheels only.
7. Tamiya body sets only.
8. No minimum weight.

## FWD (FF-03)

The FWD class is open to all drivers. This is the perfect class for anyone looking for fun front drive racing action where momentum is the key to finishing first.

Recommended Skill Level: Intermediate

1. Legal chassis platform: FF-03 (Any Variant including double deck chassis)
2. **Motor Rules:** 21.5 motors on the ROAR legal and approved list may be used. See general rules above for the list 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. No minimum weight.
6. Gear cover must be used.

### FF03 class Body Set Rules:

You may use any body set currently included in a FF03 kit by Tamiya.

- A. 51421 Castrol Honda Civic VTi (EG)
- B. 51431 Honda Civic - Type-R R3 JAS
- C. 51452 Honda CR-Z
- D. 51473 VW Scirocco GT24-CNG

Any "limited releases" of FF body sets.

- A. 84137 Volvo 850
- B. 84138 Honda Accord 1996
- C. 84139 Peugeot 406 ST
- D. 84140 Alfa Romeo 156
- E. 84143 Toyota Tom's EXiV
- F. 84144 Renault Clio
- G. 84145 Toyota Tom's Levin
- H. 84229 HKS Opel Vectra JTCC

Any of the following body sets which were not offered on Tamiya FF chassis vehicles.

- A. 51339 VW Golf - GTI Cup Car
- B. 50968 Beams Integra
- C. 51497 VW Golf24
- D. 51337 Suzuki SX4 - WRC

**Note:** Body used must comply with all rules and regulations outlined in the "Car Body" section of the TCS rules.

Only the set-included rear wing can be used and installed per instruction manual. NO OPTIONAL REAR WING IS LEGAL, No Exceptions.

These body rules are in place specifically keep this class scale and nostalgic with the spirit of FF driving. In addition, without the aid of heavy aerodynamics, this will challenge every racer with vehicle setup and driving ability and endurance.

### TCS Regional Event Racing Format

- A. There must be at least 5 participants in each respective class for the class to be run.
- B. All Regional qualifying heat races are 5 minutes long.
- C. All Regional races' "Main" events are 6 minutes long.
- D. Two qualifying heat rounds will be run at each regional TCS location to determine the Main event qualifying standing. (Weather and time permitting)
- E. The qualifying format will be left to the discretion of the host site. The two options are: IFMAR qualifying format or heads up qualifying starting format.
- 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.
- H. Lower Main "Bump-Ups" are left to the discretion of the host regional 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)
- 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 for 5 total raffle prizes to be given away.

### How to Qualify for the 2014 TCS Finals

After the end of the TCS season there is a TCS Finals Championship 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, Japan.

In order to participate in the TCS Finals, all participants competing in a Tamiya World Championship class eligible for the "Trip to Japan" prize **must be legal citizens and 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 to compete in that class at the Finals.

All TCS racers finishing in the top ten in any class automatically qualify for the Tamiya TCS Finals. Those not making the top ten will be given first priority as "walk-ins" on a first come first serve 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 2013 and or 2014 season to be eligible to take part in the TCS 2014 finals.

**EXCEPTIONS include:** GT SPEC Novice, 1/12 GT and exhibition classes. If you are new to TCS, you may enter GT Spec Novice, 1/12 GT and any exhibition classes offered at the TCS Finals even if you did not participate in a regional event.

The TCS Finals trip winning classes for 2014 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 2014.

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 trip to go to Japan and compete at the Tamiya World Championships. Read below for eligibility and details.

**GT-1 past champion and new champion eligibility rules and prize details: TCS Finals**

1. Former 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, Mini 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 2013 winner will be eligible to compete again in 2016). New winners must also sit out the TCS Finals for two years to be eligible to compete again.
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 2014 TCS regional race (in the GT-1 class) to be eligible to qualify for the 2014 TCS Finals. Any non-champion may enter the GT-1 class as long as they have qualified in any GT-1 class in the 2013-2014 seasons.
6. Tamiya America covers airfare and accommodations to the Tamiya World's 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 2014 World Championship Notice and information:**

The Tamiya World Championships are typically held in November. It is usually the week before the U.S. Thanksgiving holiday.

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 2014 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 once in Japan. These items are to be used for the World Championship race.

TCS Champs will be given a special promo code to our website. The code will allow you to purchase spare or option parts at a discount in preparation for the Tamiya World's trip.

**Notice to future National Champion trip winners:** A parent or legal guardian must accompany TCS Finals trip winner, who is under the age of 18, or legally dependent, to Japan. 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.

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