



## Rules and Regulations 2012

### Driver Eligibility

All radio control car-racing "hobbyists" are welcome to join the TCS series. 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 sure to read the class descriptions to see which class suites your skill level and budget best.

#### **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, manufacture 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/manufacture 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 possibly know every individuals 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 does 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, David Jun and Viktor Wilke 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 the "GRAND" prize (a.k.a. TCS National title) **ARE** eligible to participate in regular season TCS races. They are also eligible to win the first place trophy at these regional races; however they are not eligible to win the prizes that are associated with first place. In turn, we ask past champions to donate their first place prize to any participant or spectator of their choice.

All former TCS national title winners that won the trip to Japan are eligible to participate at the TCS North American Finals under the "Past Champions" grudge match class and any special classes that are developed. 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 spec 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-rod with shims, on the steering knuckle itself to change bump steer is not permitted.

### ELECTRONICS

13. Any manufacturer's electronic speed control, 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.
14. 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.
15. **Personal My Laps/AMB-it transponders are preferred, but not required. For more information about these transponders please visit <http://www.amb-it.com/ambrc-c-16.html>** Most host sites will have "house" loaner transponders.

### BATTERIES

#### 16. The batteries allowed for the 2012 season are:

- a. NiCd and NiMh batteries that are legal for TCS are the same ones found on the ROAR approved list as seen here: <http://www.roarracing.com/approvals/sbattery.php>
- b. ***Hard Cased LIPO batteries are legal for all classes. See specific class rules for limitations and exceptions.***

c. TCS legal LIPO batteries must be 7.4 volts 2S-1P/2P specification. TCS legal LIPO batteries may not exceed 6000 MAh capacity. See class specific rules as MAH and C rating may be limited for a particular class. You may use the ROAR approved LIPO list found here as a guide and reference to the 7.4 Volt 2S-1P batteries that are permitted for TCS: <http://www.roarracing.com/approvals/lipobattery.php>

d. NOTE: Despite the ROAR approved list, **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.

17. 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.

18. **LIPO TECH rule:** In the interest of safety and fairness, all LIPO batteries will be volt metered at TECH prior to a "race or qualifying" heat. LIPO batteries exceeding 8.44 volts will not be allowed to race on the track until they have been discharged to meet the 8.44 rule.

19. Any battery connector or direct hard wiring to the battery is allowed.

## Car Body

20. All car bodies must be painted and must be cut along the trim lines. You are not allowed to create extra vent holes for the purpose of ventilation or performance enhancement. Leaving extra material below the trim lines of the body is prohibited.

21. 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.

22. 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

23. Any motor connector or direct hard wiring to the motor is allowed.

24. 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.

25. **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.

26. It is forbidden to freeze any motor prior to qualifying or racing.

27. **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.

28. It is forbidden to crank the timing on the 540-J motor physically or through the use of rare earth magnets. This rule applies to all the classes that use the Tamiya 540-J silver can motor.

29. **Johnson 540-J motors are limited to 18,750 RPM.** This rule applies to all classes that use the Tamiya 540-J motor. **Measurement method:** Tamiya 540-J Johnson motor, item 53689. 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!!

## Tires and Wheels

30. 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) Tires may not enter the TECH inspection area in a wet condition.
31. **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.
32. 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.
33. 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.
34. 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 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). (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)
35. 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.

## MISCELLANEOUS

36. Any modification not called out specifically in these rules is not legal.
37. 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

1. A body submitted for concourse consideration must be mounted on a fully assembled 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.

**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.**

## Tamiya GT Spec Novice Rules

Skill Level: Novice/beginner; Minimal to no racing experience, early stages of driving development.

*The Spec class is intended for Novice drivers only.* It's the host sites discretion to police over qualified racers from the class.

1. **Legal chassis platforms:** *TT-01, TT-01R, TT-01E and TT-01R-Type E.*
2. The Novice Spec class is limited to the following option parts:
  - a. Plastic body CVA mini oil-filled shock set. **(Any Tamiya spring may be used)**
  - b. TT-01 aluminum center prop shaft (53620 and 54026)
  - c. TT-01 propeller joint cup set
  - d. TT-01 ball bearings (53497 and 54025)
  - e. TT-01 adjustable upper arm set (53674)
  - f. TT-01 turnbuckle steering tie-rod set (53662)
  - g. TT-01 carbon upper deck (53672)
  - h. 5mm aluminum ball connectors
  - i. Aluminum clamp type wheel hubs (4mm, 5mm, 6mm)
  - j. Metal motor mount (53666)
  - k. Speed tuned gear set. (53665)
3. The Kit type closed-end-bell, silver can motor (Mabuchi/Johnson) and the 540-J (item 53689) are the only motors allowed for this class.
4. You must run kit type tires: Racing Slicks (50454), Racing Radials (50419), Racing Semi Slick Tires (50810). These are all rubber/vinyl compounds.
5. Medium Narrow 24mm tires are not allowed. All Tamiya Spec Class cars must use 26mm wheels and tires.
6. **Battery rules:** Any TCS approved NiCd, NiMh and LIPO batteries. See general rules section.

## FWD

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

1. **Legal chassis platform:** FF-03
2. **Motor rules:** Tamiya 540-J Johnson motor, item 53689. See sections 28 and 29 under "General rules" for motor RPM limits.
3. **Battery rules:** Any Legal TCS battery. See general rules above.
4. No minimum weight.
5. FWD body styles only including some limited Rally body types.
6. If a FWD body does not have a wing included, you may not add one, regardless if it's ABS or polycarbonate. All FWD bodies are not allowed to use the optional polycarbonate wing sets, regardless of pre-stamped dimples on some of the FWD body sets. **ADDENDUM 5/9/12: The use of a Tamiya polycarbonate wing sets is legal for body sets that have factory stamped dimples for the wing stay.**
7. **Spec tires:** As outlined in the General Rules, spec tires and wheels must be used for the FWD class.
8. The gear cover MUST be used.
9. Maximum final drive ratio: 3.85 Max Spur: 80 tooth, Pinion: 54 (64 pitch)
10. The below table shows the current legal body list for the FWD class. New body releases will be added as they become available and approved for the class. Note: In

the interest of adding variety to the FWD class, some WRC body sets have been made legal to use.

Legal Body sets	Item #	Production Status
Beams Integra	50968	current
Honda Civic VTi (EG)	51421	current
Toyota Tom's EXIV	84143	current
Renault Clio	84144	current
Toyota Tom's Levin	84145	current
JAS Motorsport Honda Civic	51431	current
Volkswagen Golf GTi Cup	51339	current
Honda CR-Z	51452	current
Volkswagen Scirocco	51473	current
Suzuki SX4 WRC	51337	current
Volvo 850	84137	Discontinued
Honda Accord 1996	84138	Discontinued
Peugeot 406 ST	84139	Discontinued
Alfa Romeo 156	84140	Discontinued
VW Golf V5	50787	Discontinued
Ford Mondeo BTCC	50551	Discontinued
Nissan Primera JTCC	50572	Discontinued
VW New Beetle	50790	Discontinued
Peugeot 306 WRC (FF02)	50809	Discontinued
Opel Vectra	50668	Discontinued
Toyota Celica (FF02)	50771	Discontinued
Audi A4 STW	50720	Discontinued
Ford Focus WRC	50847	Discontinued
Ford Focus RS WRC 2001	50922	Discontinued
Focus RS WRC 2003	51037	Discontinued
Peugeot 206 WRC	XXXXX	Discontinued
ABT Audi TT-R DTM	from kit 58300 Redbull	

## GT-3 Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

The Tamiya GT-3 class is a race class for intermediate skill level racers. The class is open to racers who are able to maneuver around a circuit with minimal incidents. The GT-3 class is also the ideal progression from the Spec Novice class as the basic fundamentals of racing have been learned. Note: Sportsman racers should not be racing in this class. You are too advanced!

- 1. Legal chassis platforms:** Any TUB-type chassis TT-01, TA-01, 02, 03, 04, 05, 06 and TB-03 variants.
- 2. Motor rules:** Tamiya 540-J Johnson motor, item 53689. See section 28 and 29 under "General rules" for motor RPM limits.
- 3. Battery rules:** Any Legal TCS battery. See general rules above.
- 4.** All GT-2 cars must meet a minimum weight of 1400 Grams.
- 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 408R).
- 6. Spec tires:** Pre-mounts as outlined in the General Rules must be used for this class.

## GT-2 Rules

Skill Level: Advanced; Experienced racer with proficient driving abilities.

The Tamiya GT-2 class is a race class for sportsman and advanced skill level racers. Intermediate racers are welcome to race in this class, but you are cautioned as you will be racing against long time TCS Racers who have many years of experience.

1. **Legal chassis platforms:** Any TUB-type chassis TT-01, TA-01, 02, 03, 04, 05, 06 and TB-03 variants.
2. **Motor rules:** 17.5 motor technologies are locked down to 6 manufactures to keep things simple for racers and the organizers alike. See Brushless motor chart for TCS legal 17.5 motors.
3. **No BOOST ESC rules:** To keep the GT-2 class ESC expenses down, the class is limited to "non-blinky" zero timing ESC's. See ESC chart for legal TCS GT-2 ESC's.
4. **Timing rules:** Physical motor timing is allowed. Caution: advancing the motor timing beyond the manufactures recommendations is at your own risk.
5. **Rotor Rules:** Tuning rotors are legal.
6. **Battery rules:** Any Legal TCS battery. See general rules above.
7. All GT-2 cars must meet a minimum weight of 1400 Grams.
8. Any Tamiya 190 mm GT or Sports car body is permitted with the exception of the VERMAC 350R GT (AKA EBBRO 350R or Willcom 408R).
9. **Spec tires:** Pre-Mounts as outlined in the General rules must be used for this class.

## GT-1 Rules

Skill Level: Expert; High degree of racing experience with excellent and dexterous driving abilities.

The Tamiya GT-1 class is the premiere touring car class offered in the TCS racing series. It is for "expert" hobbyists who are capable of driving with great precision at high speeds. The GT-1 class uses Brushless motor technology that is slightly faster than the ones used in the GT-2 class. This class is not for NOVICE Racers.

1. **Legal chassis platforms:** Any variant TRF 414,415,416, 417, TB EVO 1-5 and any variant TA-05, TA-06 and TB-03.
2. **Motor Rules:** 13.5 motor technologies are locked down to 6 manufactures to keep things simple for racers and the organizers alike. See Brushless motor chart for TCS legal 13.5 motors.
3. **No BOOST ESC rules:** Since the GT-1 class is the premiere and fastest touring car class in the TCS Series, the ESC rules have been opened up a bit to reflect popular products being used across the country. The GT-1 ESC list has expanded to include select "blinky" models. See ESC chart for legal GT-1 ESC's.
4. **Timing rules:** Physical motor timing is allowed. Caution: advancing the motor timing beyond the manufactures recommendations is at your own risk.
5. **Rotor Rules:** Tuning rotors are legal.
6. **Battery rules:** Any Legal TCS battery. See general rules above.
7. Any Tamiya 190 mm GT or Sports car body is permitted.
8. **Weight penalties:** Double deck "carbon fiber plate" GT-1 cars must meet a minimum weight of 1360 Grams. Tub chassis vehicles have no minimum weight.
9. **Spec tires:** Pre-Mounts as outlined in the General rules must be used for this class.

## Mini Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

1. **Legal chassis platforms:** M03, M05 and M06 chassis cars that use the 60D size tire or smaller.
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, M-06 may be used on any chassis platform.
4. **Motor Rules:** Tamiya 540-J Johnson motor, item 53689. See section 28 and 29 under "General rules" for motor RPM limits.
5. Tamiya internal gears only. Aftermarket idler and spur gears are not legal.
6. **Battery rules:** Any Legal TCS battery. See General rules. Note: LIPO battery packs used in the Mini class must be a rounded profile for use on the M03 and M05 chassis platforms. Grinding the battery slot to fit rectangular batteries is not allowed.
7. All M-chassis cars must meet a minimum weight of 1250 grams.
8. 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 #35 under "General Rules" for specifics. Note: This rule is enforced at every TCS location.

## Mini PRO Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

This version of the Mini class uses the exact same rules and structure as the regular M-chassis class. The only exception is the use of a "spec" selection of 17.5 brushless motors and "no-timing boost" ESC's.

1. **Legal chassis platforms:** M03, M05 and M06 chassis cars that use the 60D size tire or smaller.
2. Current TAMIYA Mini bodies available for the M03, M05 and M06 are legal.
3. FWD minis must use FWD body types. RWD minis must use RWD body types.
4. **Motor Rules:** See Brushless motor chart for legal 17.5 motors. Note: Physical motor timing is allowed as are ROAR legal size tuning rotors.
5. **No BOOST ESC rules:** See TCS ESC chart for legal ESC's.
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 Mini class must be a rounded profile for use on the M03 and M05 chassis platforms. Grinding the battery slot to fit rectangular batteries is not allowed.
8. All M-chassis cars must meet a minimum weight of 1250 grams.
9. 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 #35 under "General Rules" for specifics. Note: This rule is enforced at every TCS location.

## F1 Rules

Recommended minimum Skill Level: Advanced; Experienced racer with proficient driving abilities.

### F-1 Rubber Tire

1. **Legal chassis platform:** F104 and F104W
2. **Motor rules:** The F-1 class may use either the Tamiya 540-J Johnson motor, item 53689 or select 21.5 brushless motors and no boost ESC's. See section 28 and 29 under "General rules" for 540-J motor RPM limits and see the Brushless motor and ESC charts for legal 21.5 motors and ESC's. Note: Tuned rotors are legal as is physical timing advancement.
3. **No boost ESC rules:** See ESC chart for legal ESC's for the class.

4. Tamiya F104 rubber tires and rims only. F104W cars may only use the kit supplied rubber tires and wheels.
5. Tamiya F104 bodies only. Mixing Tamiya bodies and Tamiya wings is NOT allowed. You must use the wings that match the body set.
6. Any pinion and spur gear ratio combo may be used.
7. Tamiya Driver figure must be used.
8. **Battery rules:** Any Legal TCS battery. See General rules above.
9. No minimum weight.
10. "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.

## F-1 FOAM

1. **Legal chassis platform:** F104, F104W and F104WGP
2. **Motor rules:** The F-1 class may use either the Tamiya 540-J Johnson motor, item 53689 or select 21.5 brushless motors and no boost ESC's. See section 28 and 29 under "General Rules" for 540-J RPM limits and see the Brushless motor and ESC charts for legal 21.5 motors and ESC's. Note: Tuned rotors are legal as is physical timing advancement.
3. 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.**
4. Mixing and matching F103 and F104 foam rubber is not allowed.
5. Cutting compounds and re-gluing them to create firm/soft hybrids is not allowed.
6. Tire width trimming is not allowed. The entire width of the Tamiya tire must be used.
7. Mixing Tamiya bodies and Tamiya wings is NOT allowed. You must use the wings that match the body set.
8. Any pinion and spur gear ratio combo may be used.
9. Tamiya Driver figure must be used.
10. **Battery rules:** Any Legal TCS battery. See General rules.
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

Recommended minimum Skill Level: Advanced; Experienced racer with proficient driving abilities.

1. Legal chassis platform: RM-01
2. Motor Rules: 17.5 brushless motors. See Motor chart for legal TCS 17.5 motors.
3. ESC rules: See TCS ESC chart for legal "Zero" timing and "blinky" legal ESC's.
4. Battery rules: ROAR Legal LiPo 3.7 volt 1S battery packs. Note: This type of pack must be taped onto the chassis. Omitting the stock plastic LiFe battery holder is legal.
5. Wheel & Tire Rules: Tamiya or any aftermarket tires and wheels.
6. Tamiya body sets only.
7. No minimum weight.

## 1/10 4WD Off-road Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

1. **Legal chassis platforms:** DF-03, DB-01, DB-02, 501X/511/502
2. DF-03, DB-01, DB-02, 501x/511/502 bodies only.
3. Any aftermarket 4wd tires from Losi, Proline, J-Concepts, etc. are legal.
4. **Motor rules:** Open 10.5 brushless motors and speed controls.
5. **Battery rules:** Any Legal TCS battery. See General rules.

## 1/10 2WD Off-road Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

This is the premier class in off-road. It's open to anyone who wants to tackle the challenges of 2WD off-road buggies with Tamiya's new state of the art TRF201 and base model DN-01 chassis.

1. **Legal chassis platform:** TRF201 and DN-01
2. **Body Rules:** 201 and DN-01 bodies and wings.
3. Any aftermarket 2wd tires from Losi, Pro-Line, AKA, J-Concepts etc. are legal.
4. **Motors rules:** Open 17.5 brushless motors and speed controls.
5. **Battery rules:** Any Legal TCS battery. See general rules above.

## Rally Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

At certain TCS venues, the Rally class will be run for fun. If you think you have the control skills to slide a Rally car around a dirt course, then this class is right up your alley.

1. **Legal chassis platform:** DF-03 RA, TL-01 RA, TA-02 and TB-01
2. **Motor rules:** Tamiya Black Sport Tuned or silver 540-J Johnson motor's.
3. Tamiya Rally Bodies only.
4. Tamiya Rally Block Tires only.
5. **Battery rules:** Any Legal TCS battery. See General rules.

## Mini Rally Rules

Recommended minimum Skill Level: Intermediate; adequate driving ability with some race experience.

At certain TCS venues, the Mini Rally class will be run for fun. If you think you have the control skills to slide a Rally car around a dirt course, then this class is right up your alley.

1. **Legal chassis platforms:** M05ra
2. **Motor rules:** *Tamiya 540-J motor (item 53689)* No RPM limits
3. **Battery rules:** Any Legal TCS battery. See General rules. Note: LIPO battery packs used in the Mini class must be a rounded profile, hard case, stick pack configuration.
4. Mini rally block tires only.
5. Any Tamiya Rally Mini body may be used.

## 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. 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 winner of "Best of Show" (award for the best-looking vehicle in each class) receives a certificate of achievement and model kit prize.
- E. Every TCS participant at a regional event qualifies to receive on raffle ticket for 5 total raffle prizes to be given away.

## How to Qualify for the TCS Finals

All TCS racers finishing in the top ten, in any class, will automatically qualify for the Tamiya North American Finals. In order to enter a "trip winning" TCS Finals class, you must have competed in the class during the regular regional season to compete in that class at the Finals. Those not making the top ten will be given first priority as "walk-ins" on a first come first serve basis. Qualified racers and walk-ins may not enter a trip winning class which they have never raced in previously. You must have participated in the 2011/2012 season to be eligible to take part in the TCS 2012 finals.

EXCEPTIONS include: SPEC Novice and exhibition classes. There will be 4-5 classes that will be run in the finals in August 2012. The classes will be announced two months prior to the event. Three of those classes will be eligible for the Tamiya World Championship trip held in November. The TCS Finals trip winning classes will be determined and based on class participation/popularity during the 2012 season. The Tamiya Japan World event guidelines and structure will also determine which classes will be deemed as the trip winners. The winner of each eligible class will win a trip to Japan to compete in the Tamiya World Finals held in November 2012.

### Tamiya 2012 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 North America Finals winners who win the trip to Japan must have a valid U.S. or Canadian 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 2012 rules and regulations may not be given to the North American 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.

TCS North American Finals trip winners who are under 18 years of age must be accompanied by a legal guardian to Japan. If the winner turns 18 prior to the trip a guardian is not needed. Due to the nature of the World Championship trip, its logistics and tight schedule for the contestants, friends and family are not permitted to accompany winners.

Notice about alternate winners: In the event that a class winner is unable to go to Japan, for whatever reason, the second place runner up will not take his or her place. Tamiya World Championship racers must "WIN" their way to Japan.

**Version: 11/11/11**

*Rules and guidelines subject to change without notice*

*Updated 5/16/12*

*Updates included FWD wing rule, Tamiya World Championship alternate trip winner stipulation.*