

Eastbourne Electric Car Club

Tamiya TT-02 Stock Class Rules



Introduction

The 'TT02 Stock Class' is designed to support the use of the standard TT02 or standard TT01/TT01-type E kits – 'out of the box'. The spirit of the class is that it will be a low-cost stock class with minimal differences between the cars and only minimum hop ups /upgrades from the unmodified standard kits resulting in cars of very similar performance.

The TT02 and TT01 are both available with a wide range of different body shells and in a number of different variants. These variants are essentially modifications / upgrades applied to the standard version of the kit with upgrades/hop ups included in the box. The hops ups / upgrades included in these variants dramatically alter the performance of the base standard kits.

Kits purchased as these variants are not permitted in the class unless they are downgraded to the standard kit version (including but not limited to the downgrade of the of hardened plastic, carbon fibre parts, alloy / aluminium parts, enhanced suspension arms etc to the standard kit versions) except where the specific upgrades contained with the rule set are retained.

1. Chassis / Base Kit

- 1.1. The only permitted base kit / chassis are the standard Tamiya TT02, Tamiya TT01 & Tamiya TT-01 Type E. The optional plastic parts included with the Tamiya TT02D kit are permitted but a TT02D may only be used where they conform to the wider rules set.

Any other chassis variants including but not limited to, TT02R, TT02RR, TT02-Type S, TT02D-Type S, TT02-Type SR, TT02-Type SRX, TT01R, TT-01D, TT-01D-Type E, TT01R-Type E are ***not permitted*** including the modifications contained within these variants where they have been added to a standard kit.

Kits purchased as these variants may only be used where they are downgraded to the parts used in the kit standard versions.

1.2. TT02 Specific chassis rules:

This section 1.2 applies to the TT02 only:

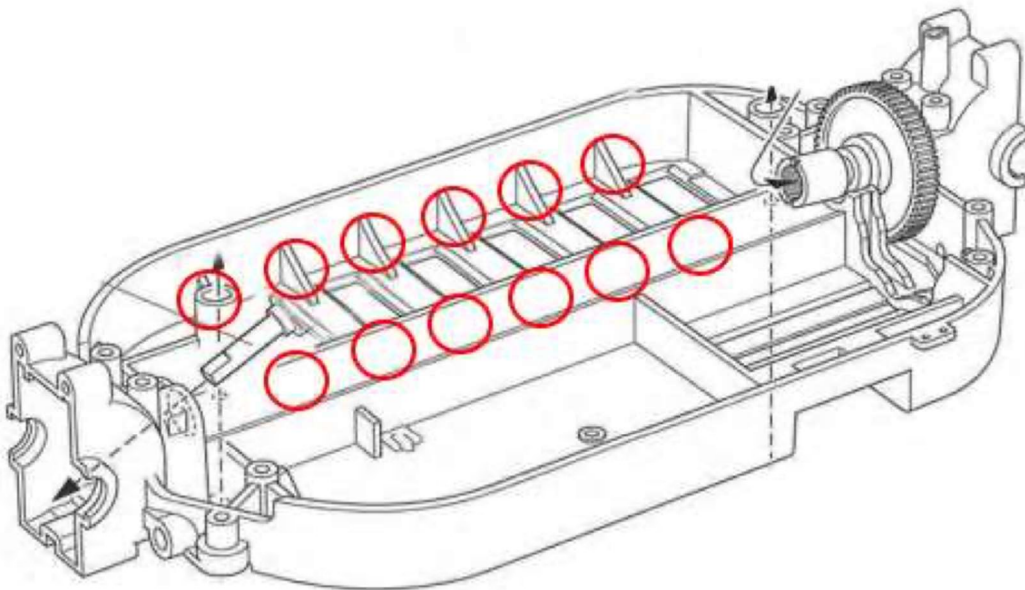
- 1.2.1. The standard kit is considered to be as found in the standard TT-02 manual. The reference manual can be found here: <https://www.tamiya.com/cms/english/rc/rcmanual/tt02.pdf>
- 1.2.2. The kit must be assembled as per the manual TT-02 Standard Manual including all of the parts with the exception of:
- 1.2.2.1. The rear bumper mount part B8
 - 1.2.2.2. The motor cover parts D7 & D8
 - 1.2.2.3. Antenna cable guide part D12 and antenna pipe
 - 1.2.2.4. Bumper Stopper part B7
 - 1.2.2.5. Where the kit parts are directly replaced with permitted hop ups
- 1.2.3. The Tamiya Kit Standard Chassis must be used. No aluminium, carbon or woven fibre reinforced plastic chassis are allowed. Tamiya TT02 "Hard Plastic Chassis" variant is not permitted.

- 1.2.4. Conversion kits that change the chassis or build of the Tamiya TT-02 kit are not permitted; apart from any allowed hop-ups detailed in this rule set.

1.3. TT01 / TT01-Type E Specific chassis rules:

This section 1.3 applies to the TT01 / TT01-Type E chassis only:

- 1.3.1. The standard kit is considered to be as found in the standard TT01 and TT01-Type E manual. The reference manual for the TT01 can be found here: <https://www.tamiya.com/cms/english/rc/rcmanual/tt01.pdf> and for the TT01-Type E can be found here: https://www.tamiya.com/cms/english/rc/rcmanual/tt01_type_e.pdf
- 1.3.2. The kit must be assembled as per the manual including all of the parts with the exception of:
- 1.3.2.1. The rear bumper mount part B6
 - 1.3.2.2. The motor cover part D8
 - 1.3.2.3. Antenna cable guide part D9 and antenna pipe
 - 1.3.2.4. The transponder holder part D6
 - 1.3.2.5. Bumper Stopper part A10
 - 1.3.2.6. Where the kit parts are directly replaced with permitted hop ups
- 1.3.3. The TT01-Type E top deck/upper brace (part D1) may be omitted or may be cut to improve flex.
- 1.3.4. The chassis may be modified to allow batteries larger than those designed for the kit only by reducing / removing the nicad/nimh battery locators shown in the diagram below. Both inside and outside locators may be removed.



- 1.4. Front and Rear body posts may be cut to length as desired.
- 1.5. The wheelbase can be either be standard (257mm) or short (251mm).
- 1.6. The track must be within the maximum that the kit can be built without adding any aftermarket parts. The use of the kit included wide track option parts is permitted.
- 1.7. There are no minimum or maximum weight restrictions.

2. Transmission

- 2.1. Kit standard gear parts only are allowed. This includes the use of standard kit spur mount assembly as detailed in the manual.

For the TT-02

- 2.1.1. Pinion – 22T
- 2.1.2. Spur – 70T

For the TT-01 / TT-01-Type E

- 2.1.3. Pinion – 19T
- 2.1.4. Spur – 61T

- 2.2. high-speed gear sets or gear sets that alter the gearing from standard may not be used.
- 2.3. Standard Kit differentials only are allowed. The use of third-party differentials is not allowed. The use of Tamiya Hop Up differentials such as oil filled (54875, 22049) or ball differentials (22046, 53663) is not allowed.
- 2.4. The use of a Tamiya TT-02 kit standard differential in the TT-01 / TT01-Type E is permitted.
- 2.5. Differentials must be built as per kit instructions.
- 2.6. Any grease/oil/putty may be used to replace the kit supplied grease.
- 2.7. The differential must not be locked up. The use of additional shims to add resistance to the diff action is forbidden.
- 2.8. Ball differentials, spools and “solid axles” are specifically not allowed.

3. Electronics

3.1. Brushed Speed Control (ESC)

- 3.1.1. Any brushed ESC that is typically available for £50 or less in UK model shops is permitted.
- 3.1.2. Three step mechanical speed controllers are not allowed.
- 3.1.3. Configuration of wires must be as supplied, although wires may be cut to length, or extended if necessary.
- 3.1.4. Battery connector may be changed for different connectors (i.e. Deans Ultra, Power poles etc.).
- 3.1.5. Bullet motor connectors may be removed to allow direct soldering to motors or may be changed for different connectors (i.e. Deans Ultra, Power poles etc.).
- 3.1.6. The fitting of a power cap is not allowed.

3.2. Motor

- 3.2.1. Only Tamiya 540 Torque Tuned brushed motors or Core-RC Core 21 brushed motors are permitted.
- 3.2.2. The motors must remain un-tampered, however cleaning of the motor is allowed. This includes the use of cleaning fluids, cotton buds and fibre comm sticks. Running in/water dipping/comm drops and lubricants are permitted.
- 3.2.3. Anything other than this is not allowed.
- 3.2.4. Extra capacitors, power caps and/or schottky diodes may not be fitted to the motor.
- 3.2.5. The use of any form of commutator lathe is strictly forbidden.
- 3.2.6. Heatsinks and/or cooling fans are permitted.

3.3. Batteries

- 3.3.1. 7.2V 6 cell NiMH or 7.4V 2S LiPo including shorty may be used and must be hard-cased
- 3.3.2. 7.6V 2S LiHV batteries including shorty may be used but must not be charged to over 8.4V and must be hard-cased
- 3.3.3. LiPo and LiHV Must be charged and discharged in a suitable protective charging bag/box

3.4. Radio/Transmitter

- 3.4.1. 27mhz, 40mhz and 2.4ghz are the only permitted systems.

4. Bodyshells

- 4.1. BRCA Approved Touring Car Body Shells are prohibited.
- 4.2. No Touring Car jelly-mould bodies are permitted except the Tamiya Raikiri GT.
- 4.3. Bodyshells must be scale and faithfully replicate a real car in 1/10 scale as faithfully as possible (with the exception of the Tamiya Raikiri shell, which is allowed) and have a maximum body shell width of 190mm.
- 4.4. Pikes Peak, LMP, LMH, Pick-up Truck, or NASCAR style bodies are prohibited.
- 4.5. Wings are only permitted on bodies that either originally came with a wing or where a wing was specified as an option.
- 4.6. Wings are to be mounted in their original position and may not be mounted on the roof.
- 4.7. Any 10th scale replacement rear wing may be used apart from metal wings for safety.
- 4.8. Polycarbonate wing end plates may be used.
- 4.9. No additional wheel arch extensions are allowed.
- 4.10. No cut-outs are allowed in the body except for body posts, antenna and transponder mounting.
- 4.11. The body shell must be trimmed to the manufacturer's trim line. "Cut-out" rear body panels are not allowed and cabs may not be lowered.

5. Wheels & Tyres

- 5.1. Wheel and tyre choice is open but tyres must be rubber and commercially available. Foam tyres are not allowed.
- 5.2. Wet tyres specifically designed for use with touring cars may be used in the wet.
- 5.3. Tyre treatments/additive may be used with the exception of any additive containing oil of wintergreen based products or during wet meetings when no tyre treatments/additive are allowed.
- 5.4. Tyres may be cleaned with water, brake cleaner or allowed additive.
- 5.5. Tyre warmers are not permitted.

6. Hop-Ups

- 6.1. Only the following after-market hop-up parts are permitted.
 - 6.1.1. Oil-filled shocks (including alloy shocks)
 - 6.1.2. Shock Springs
 - 6.1.3. Ball race bearing kit - Bearings of the same size can be used in place of metal or plastic bushes. Bearing shields may not be removed, ceramic bearings are specifically not permitted.
 - 6.1.4. replacement wheel hexes (including aluminium)
 - 6.1.5. Adjustable turnbuckle linkage between the servo horn/saver and the steering bridge
 - 6.1.6. High torque servo saver or servo horn of any material
 - 6.1.7. Front drive shafts inc. replacement gearbox joints. (CVJ, Double Joint etc are permitted)

6.1.8. Replacement Bumper Stopper

6.1.9. Alloy / Aluminium steering parts may be used to replace the steering arms (TT01 parts D11, TT02 parts A3) and the steering bridge (TT01 part D7, TT02 part A5) along with the accompanying hardware (screws, bearings mount posts etc). However, the kit steering linkages must be used (TT01 part B1, TT02 part B12). Therefore, Alloy or aluminium steering parts that cannot be used with these kit parts are not permitted. The use of turnbuckles or other adjustable steering linkages are specifically not permitted.

6.2. Any shims, spacers and O rings can be used for the removal of play in moving parts.

6.3. Aftermarket screws may be used with the exception of titanium, aluminium or lightweight screws.

6.4. Damper and spring units and their attachments are open but must use the standard kit arms and towers and must make use of the kit standard Tamiya mounting points.

6.5. No other Hop up parts may be used unless notification of change is made during the season.

Latest changes will have been made in red