

**DMCRC Class Rules 2025 Issue 2**



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Reviewed by 2025 club committee members

**Revision History**

<b><u>Revision Number</u></b>	<b><u>Change Date</u></b>	<b><u>Change</u></b>
Draft 0.B	June 2025	Initial Draft of rules in 2025 rules refresh
Draft 0.C	21 June 2025	M Chassis ride heighted to 4.5mm from 5mm M Chassis esc added 1080 option Truck added ride height limit of 5mm Frontie Motor options and weight updated TC 13.5 or Modified update GT12/LMP ride height guidance added. Mini Mod battery details updated. Transfer to DMCRC google drive
Draft 0.D	24 June 2025	AB Review actions, Reverse disabled, Consistent m-chassis terminology, Class considered if 3 or more cars, Setting up/help guidance/setup more important than setting up your pit table, race manners, marshalling. spelling and grammar check,
Draft 0.E	30 June 2025	AB Review Actions - Drivers throttle while being marshalled and typos.
Issue 1.0	30 June 2025	See draft change history in this table
Issue 2.0	7 Dec 2025	Touring Car Blinky and Mod Rules updated. Frontie FDR Clarification and wheel/tyre and FDR changed to TR09 with FDR of 5 only. Frontie ESC F/W specified in rules rather than BRCA references. LMGT3 class place holder added

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# Introduction

The following are the rules for the classes that are most commonly run at DMCRC.

The rules have had a refresh and update mid 2025 with intention of making club rules clearer. Some rules have changed/updated over previous club rules published.

Future rule changes will be highlighted in “club chat” and at club meetings.

Contact race control or a committee member if clarification or guidance is required. If in doubt, ask.

Adherence to rules is expected but Intention is to avoid having a scrutineering party at race meetings but to allow clean, fair and fun racing. Keep things fair and policed between each other encouraging a culture of clean competition. If an issue is found it should be highlighted in a friendly/non combative way and the issue can be resolved in an appropriate time scale. Race control/club committee has final say.

General rule is cars must be in suitable condition to race indoors on race carpet. The race carpet and track equipment is a big investment to the club and we must do our best to avoid damage to it. See equipment condition chapter. For example If a car is seen that risks damage to the carpet, race control has the right to black flag it until the problems are resolved.

Some classes are more popular and run more regularly than others. Not all classes run every week but rules created for classes commonly run within the club. If interested in racing with us contact the club or come and have a chat to find out what is popular, but m-chassis is the most reliable class to run and suitable for all skill levels.

Classes detailed in this rule set are

- Novice/Open
- Tamiya M-Chassis
- Tamiya TT-01 Truck
- 1/10th Touring Car Front Wheel Drive (Frontie)
- Touring Car Blinky
  - Blinky
  - Mod
- Mini Mod
- GT12
- LMP12
- LMGT3 (Rules to be defined, but is an active class while rules are agreed in community)

Any class will be considered if 3 or more appropriate cars attend the meeting, if not they may be combined in with another comparable speed class. Entries and heats listing will ultimately decide this.

Note that there may be DMCRC specific rule deviations to classes that are common within the wider hobby or what other clubs run. Some rules are to protect club equipment such as to avoid damage to the race carpet etc, some more freedom to reduce the barrier to entry/make it inclusive, some to suit our arrangements/track size...etc.

These rules apply to week to week club racing. Different rules may apply when running or hosting an event. An example being that when hosting a BRCA Competition, the relevant BRCA rules will be used. BRCA rules do not override club rules on a week to week basis. Any confusion should be highlighted to the committee so that this may be resolved.

## DMCRC Classes

### Novice/Other

Race entry for Novice or Other electric on-road classes (please specify) NO BUGGIES or large scale

If you have not raced before or it's been a while and you'd like some practice, then the Novice class is for you. Any type of electric car is allowed. As for motor's, we recommend you use a standard 540 silver can kit motor or similar low power motor to keep the speed controllable.

If you have a different class of electric on-road car you'd like to race please get in contact with us by dropping us a message or coming and asking at a race.

recommendation is to use a car that fits one of the classes even if you race in novice class while you find your feet.

Reverse gear, can be used in novice, but is not recommended.(Note for when marshalling, all other classes should not be using reverse so as to not confuse Marshalls and to not cause accidents)

This is highlighted in novice class as not obvious until you know. Read section relating to marshalling duties.

### Tamiya M-Chassis

The Club Committee fully accepts that there are a number of other "Mini style" RC chassis on the market, but if possible we would like to keep it to the popular Tamiya kits to keep things on a level playing field. However, if you have something that you would like to race in the Mini Class, at the discretion of the Club Committee we may allow something which has similar performance to the Tamiya Cars so please get in contact and ask.

Standard allowed cars are all Tamiya 'M' Chassis derivatives, M-01, M-02, M-03, M-04, M-05, M-06, M-07 and M-08. M-0#R variants are allowed.

2WD, either front wheel drive or rear wheel drive (Tamiya numbering convention for M-0#, if # is odd number it is front wheel drive, even number rear wheel drive)

Motor limited to any sealed can brushed motor with 21 or more turns. Motor must be fixed timing/timing not adjustable. Motor must not be modified in any way. No cranking of the end bell!

Example motors that may be used are the Standard Tamiya kit 540 sports tuned, Core 21, Kamtec K21...

To reduce the barrier to entry ESC limited to standard tamiya kit ESC, Hobbywing 1060 or Hobbywing 1080 (inc G2) (but discuss if you have something else, aim is avoid arms race of equipment, but not to prevent guests from racing with us etc).

Final drive ratio shall be no taller than 5.7 to 1 (e.g. 5.8 permissible, 5.6 is not). Typically this means 20 Tooth maximum tooth count pinion with standard kit spur gear.

Battery 6 cell Nicd, Nimh, and hard cased 2s Lipo's can be used (Note 2S Lipo HV permitted, both LiPo and LiPo HV charged to no more than 8.4V). Note that some older chassis are not designed for rectangular packs such as most lipo, shotgun style lipo packs are available but less common.

Any mini rubber tyre on a 42mm rim can be used. No double inserts or Foam tyres permitted.

Weight Limit, minimum 1150g.

Minimum ride height 4.5mm (inc chassis and bodyshell).

Chassis to be as supplied by tamiya kit or tamiya option parts. I.e. aim is to keep to what is fundamentally an m-chassis car as supplied by tamiya using their typical injection molded plastic construction, and not something hopped up with carbon fibre chassis parts.

The differential must not be locked. The action of the differential must operate when tested by hand. Differential may be either gear or ball diff. Non-kit/aftermarket differentials are allowed as long as it doesn't break final drive ratio rules.

Reverse should be disabled.

Body shell should be intended for M-Chassis. Touring Car/Mini Touring Car (MTC) bodies should not be used. Typically this means scale or scaleish bodies should be used. Body shell does not need to be made by Tamiya.

## Tamiya TT-01 Truck

This class is for running Tamiya TT-01/TT-01e trucks, it is seen as a fun class and for this we are saying to keep the trucks kit standard as they come out of the box, the following changes are allowed:

Speedo - Can either be the kit Tamiya one (if running non lipo batteries) or the Hobbywing 1060 (if your running lipo batteries)

Oil Filled Shocks

Bearing kits

Turnbuckle Kit

Kit truck wheels and tyres/M-Chassis Wheels with truck tyres/Ride Belted Cut Slick "Frontie wheels and tyres".

Alloy Prop Shaft

Tamiya & Montech Truck Shells are allowed

Diff grease but **NO** locked diffs

For more information or if you're unsure then please speak to the race director or any DMCRC committee member.

Min ride height 5mm

Reverse should be disabled.

## 1/10th Touring Car Front Wheel Drive (Frontie)

Based on BRCA Rules but DMCRC Club rules have some deviations that overrule.

Frontie is meant to be rule driven to keep everything close to level playing field.

1/10th scale touring car FWD only (Designed to be FWD or 4WD that is modified to meet BRCA FWD rules)

Body shell Frontie style only - See BRCA FWD Body List (No TC bodies)

Motor -. DMCRC allows Hobbywing Justock 17.5 fixed timing motors

ESC -

Hobbywing XR10 Justock G3 with firmware XR-4.1.11

or

Hobbywing XR10 Justock G3S with firmware XR-4-4.03G3

DMCRC has RPM limit of 17500 rpm

This RPM on permitted ESC with specified firmwares results in the ESC LED flash sequence of 1 long red flash followed by 4 short green flash (Transmitter on and paired to receiver, no throttle or brake applied).

As of 3rd January 2026 DMCRC Wheel tyre option is solely Ride 1/10 Belted TR09 Slick RI-36086

Tallest FDR allowed with this wheel/tyre option is 5:1. (FDR as shown in manufacturer's assembly instructions, example being Schumacher ft9 110 spur 40 pinion is shown as 5 in instructions but calculates to 4.99978 is legal)



Cut slicks are no longer permitted

Minimum ride height - 5mm (Body and Chassis)

Weight limit 1250g

Reverse should be disabled.

Battery 2S Lipo 7.4V, LiPo HV allowed. Both, maximum Charge Voltage is 8.4V.

## Touring Car Blinky

4wd '17.5 Blinky Touring' for 17.5t brushless motors with 2S LiPo battery and Blinky ESC.

Motors on the BRCA list. ESC must be in blinky

Min ride height 5mm. Min weight 1320g

<https://www.brca.org/racer-hub/equipment-recognition-board/motor-homologation-list>

## Touring Car Mod

4wd 'Modified Touring' for Open Modified brushless motors with 2S LiPo battery and Open ESC. Motors from the BRCA list.

Min ride height 5mm with body on.

Min weight 1320g

<https://www.brca.org/racer-hub/equipment-recognition-board/motor-homologation-list>

## GT12

As per BRCA Rules but note that DMCRC club rule ride height limit applies.

In summary, Any commercially available GT12 car can be used, 1S 3.7v LiPo batteries (LiPo HV permitted, both LiPo and Lipo HV but must be charged to maximum of 4.2V)

13.5T brushless motors, blinky mode speed controls (ESC) Only.

GT12 foam tyres only. Additive is allowed (please see the [Additive](#) section for more info)

BodysHELLs must be realistic 'GT' style with a maximum width of 165mm

Weight Limit minimum 950g. Recommended Minimum ride height 4mm (inc chassis and bodysHELL). If your car appears to be too low and dragging it can be black flagged. Please protect the carpet. Just because BRCA allows 3mm doesn't mean that it is the best ride height to run at. Lower than 3mm before run is not allowed.

Reverse should be disabled.

## LMP12

As per BRCA Rules but note that DMCRC club rule ride height limit applies.

Any Commercially available 1/12th car can be used.

1S 3.7v LiPo batteries only (LiPo HV permitted, both LiPo and Lipo HV but must be charged to maximum of 4.2V)

13.5T brushless motors, blinky mode speed controls (ESC) and foam tyres.

Weight Limit minimum 730g. Recommended Minimum ride height 4mm (inc chassis and bodysHELL). If your car appears to be too low and dragging it can be black flagged. Please protect the carpet. Just because BRCA allows 3mm doesn't mean that it is the best ride height to run at. Lower than 3mm before run is not allowed.

Reverse should be disabled.

If the numbers allow then the heats will be split for the slower/faster cars

Any further clarifications required then drop us a message or as before racing starts

## LMGT3

Active class, but rules being defined/agreed/bottomed out. Ask for assistance.

## Mini Mod

This class is effectively any mini sized car that doesn't fit in DMCRC M-Chassis rules.

Examples but not limited to

A Tamiya m-chassis running brushless motor

Mardave/Kamtec or similar style car

Mini Touring Car.

Tyre choice open - rubber or foam as suits car

Any motor/esc

Battery 1S (3.7V nominal, 4.2V max charge voltage) or 2S (7.4V nominal, 8.4V max charge voltage) Lipo. NIMH allowed up to 6 cells.

Reverse should be disabled.

## General Info

### Race Fees

£12.50 for adults and Free for Juniors (under 17, when accompanied by an adult)

Additional class is £7.50.

If two or more adults from same family, then a £5 family discount can be applied

First race night is free.

There are no membership joining fees.

## Race Format

We aim to have a minimum of 3 x 5 min qualifying rounds and 1 x 5 min Final for all. This can be adjusted on the afternoon to account for the number of attendees.

## Track Setting up and Practice

Setting up track has higher priority than setting up pit tables. Especially on rare occasions we operate in the small hall, where tables can block access getting track equipment in and out during setup before racing.

Please muck in if you are able. We appreciate not everyone is physically able to. Don't be embarrassed to say you are unable, your attendance is more important to the club.

The more people we can have helping set the track up, the quicker it will take and the sooner the track can be available for practice. This way everyone can have the maximum track time available through the afternoon. Please be aware there may be faster and slower cars on the track during practice

## Tables

The club has a limited quantity of tables. Generally it is possible to share 1 table between 2 people. Tables are first come first serve, but track setup has higher importance than setting up your pit (Also if note when we operated on the rare occasions of using the small hall, please keep access in the corridor clear so that track equipment can be transported back and forth. Setting up tables blocks access to this hall for getting trolleys in and out before racing.

Please ensure you clean your table after you use it. Use of your own pit matt is encouraged to keep the tables clean.

Please report spillages and damage to race control (in general not just tables)

## Booking in

When requested, book in at race control as soon as possible to avoid delays in heat sorting etc. Amendments to the heat listings are not allowed unless authorised by the race director.

DMCRC have a number of club transponders that are available for use, and must be returned at the end of the evening. These are mainly used by our novice class to reduce the initial expense when starting out in the hobby and you may prefer to buy your own PT (personal transponder) when you are ready.

Important info - By booking in, you are accepting the DMCRC rules. DMCRC do not accept liability for injury, damage or theft suffered by drivers or anyone accompanying them. Please remember that Motorsport can be dangerous. DMCRC retains the right to ask anyone to leave.

## Batteries

LiPo/LiFe batteries are a huge technological advance in RC Racing and the world over, they are safe, if used in the correct manner and within the limits of their design. Therefore, DMCRC has to be very strict with battery safety.

**ALL** LiPo/LiFe batteries **must** be hard cased.

**ALL** LiPo/LiFe batteries **must** be charged within a closed LiPo Safety Charging Bag or Pouch.

**ALL** LiPo/LiFe batteries **must** be charged using a suitable and specific LiPo/LiFe charger set to the correct mode/function.

**ALL** LiPo/LiFe Batteries, Chargers and ANY OTHER pit accessories **must** be used within the limits of the manufacturer's guidelines.

Please make yourself aware of the guidelines of the products you are using.

There is NO EXCUSE.

**NEVER** use any type of battery that shows signs of damage.

High Voltage versions of LiPo are permitted but unless otherwise stated in class rules, must only be charged to a maximum of 4.2V per cell. So 1S 4.2V max, and 2S 8.4V max.

## Equipment Condition

All equipment, be it a battery, your pit table or your car on the track, your equipment needs to be complete and in a good safe order. Cars with parts missing (broken or missing wheels, bodysells etc) or any car scraping on the carpet will not be allowed to continue racing and should be pulled off the track. This is to protect the carpet and club equipment and reduce the risk of any damage or injury. Any batteries, chargers, pit equipment showing signs of damage or possibly hazardous will not be allowed in the hall.

## Radio Equipment

Anyone not using 2.4ghz radio equipment must have 3 different crystal sets to avoid any frequency clashes.

## Tyre Additive

Additive is permitted providing:-

It is odourless

It is in a SPILLPROOF container fitted with an applicator

For guidance on this please speak to the race director or any DMCRC committee member. Products containing Wintergreen are specifically prohibited. Wiping tyres off on the track carpet is not allowed. Please ensure all tyres are dry before putting them on the track.

## Race Manners

If you have an accident or issue that forces you to retire it is good etiquette to step back and remain where you are on the rostrum to not disturb the other drivers. Please do not stomp off in a huff or start running around self marshalling. Sometimes a marshal will give you your car to look at, if doing so please do so in a discrete not distracting way.

This is not a full contact sport! Drive with due care and consideration for your fellow competitors. When being lapped, move over at the earliest opportunity. When lapping, give the car in front time to move over. When racing for position in finals, defending the position is obviously allowed, so the following car must be careful not to knock the leading car out of the way. Whenever possible do not use reverse if your speed controller is fitted with one. This usually results in a collision with the other cars. Wait for the marshal to rescue your car - it's usually quicker. No shouting at the marshals - it's not their fault. Remember, in the qualifying heats, you are racing the clock not the other cars.

## Behaviour

Any disruptive or unruly behaviour will not be tolerated. When a race is in progress, do not walk on the track. Damage to yourself and/or your car can and will happen if care is not taken. Young children must be kept under parent/guardian's supervision, no running or shouting. Access to other areas of the school is forbidden.

## Marshalling and instructions for end of each race

Drivers - Aggressiveness or frustrations to marshalls will not be tolerated. It is not the marshall's fault you crashed or ended up in an incident.

Marshalls - Please concentrate on your marshalling task and not getting sucked into watching the race as tempting as that is.

After each of your qualification/races you are expected to put your car on the car stand, and go to your marshalling point to marshal the next race. Each marshalling point is marked with a number. This corresponds to your race number (although sometimes people pick different points, if so pick another free point to marshal).

Marshalling can get quite energetic. Look after yourself first and foremost. Check that it is safe to proceed to marshal a car before running out. Try not to tread on anyone's car :). Try to remember that the drivers can't see through you, please try to avoid blocking vision to the track at your marshal point and while recovering cars (although while recovering it is inevitable to a certain extent).

Often a car will have a problem or body tuck, and they will stop at a marshal to have a look and untuck the body. Only work on a car if you are confident. Beware of hot motors and itchy throttle fingers!

Drivers, DO NOT throttle the car when being marshalled, wait for all four wheels to be back on the track and the marshal's hands are away from the car.

If you are unable to marshal due to health or fitness reasons please don't be shy and let race control know.

Sometimes classes are low on numbers and volunteer marshalls are required. Please take initiative to marshal or marshal when called upon,

All classes should marshal. Marshal how you wish to be marshalled. Karma and all that.

General rule is that reverse is not enabled, so don't assume cars will recover themselves.