

“MODEL AUTO CLUB”

# DE BAANBREKERS

---

## Technical Rules Benelux+ Electric 2019

### All classes:

**Battery:** Only Lipo (2S) hardcase or Life battery packs are allowed.

**Battery voltage:** Maximum 8,40volts, if your battery is over it, you're not allowed to start that session.

### **Charging:**

Charging with 2C and 12A max, discharging with 20A max. All participants **must** use a Lipo bag when charging Lipo batteries. It's not allowed to wrap your car in a cut open Lipo bag. Heating of batteries is not allowed.

**Tire Additives:** Only non-smelling tire additives are allowed.

**Rain:** In case of rain we will keep on racing as long as it is safe to race. It's **not allowed** to use tire additives on raintires.

### Touring Car

All cars must have independent suspension operating on all four wheels. The use of multiple speed transmissions or slipper clutches is not allowed.

**Overall width (with body)** : max. 200mm

**Overall width (without body)** : max. 190mm

**Maximum wheelbase** : 270mm

**Minimum height** : 115mm (ready to run)

**Rear bumper cut-line** : 35mm (from track surface)

**Body** : 190mm 4-door saloon bodies with front/rear lights and grill

**Wing width** : 190mm

**Chord dimension** : 40mm

**Wing endplates dimensions** : max. 20mm (height) x 40mm (width)

**Rain:** You are allowed to use a rain car and/or TW rain tires (Dunlop D20).

### Touring Car tires

The participants of the Touring Car classes deliver their tires themselves. At registration you will receive stickers with which the tires must be marked. These marked sets must be used throughout the competition by the participants.

In the event of damage to one or more wheels, the participant can have one or more new wheels marked at the race management on presentation of the damaged wheels.

If a different set of tires is used during a heat, the result of the relevant heat will be deleted.

For the Benelux 2019, 2 types of tires are allowed for the Touring Car classes:

**Option 1:** Volante, 36 Shore; order number: VT-V5T-PG36R

**Option 2:** Rush, 36 Shore; order number: RS-PGA36X

The removal of of the centre mould is permitted, futher preparations are not allowed.

---

## "MODEL AUTO CLUB"

# DE BAANBREKERS

---

### Touring Car Stock

For the motor/esc there is an **Option 1** and **Option 2**, mixing is not allowed. Each option has its own FDR.

- Chassis** : Scale 1:10 4WD touring car chassis
- Option 1** : **Motor** : MuchMore Fleeta ZX13.5t motor (#MM-MR-FZX135WF).  
The use of the Fixed Timing endplate is mandatory.
- : **ESC** : Free (blinky mode\*)
- : **FDR** : 4.00
- Option 2** : **Motor** : MuchMore Fleeta ZX V2 13.5t (#MM-MR-V2ZX135FER)
- : **ESC** : Much More Fleeta V2 Euro with RPM Limiter (#MM-ME-FLEV2),  
Much More Fleeta V2H Euro with RPM limiter (#MM-ME-FLEV2H)  
Firmware V1.x or V3.x  
The use of the RPM limiter (gr,gr,rd) is mandatory.
- : **FDR** : 4.50
- Battery** : Lipo max 7,6V (2s) max. 8,40v
- Tires** : **2 marked sets allowed from qualifying 1.**
- Min. Weight** : 1320gr (race ready, including PT)

### Touring Car Modified

- Chassis** : Scale 1:10 4WD touring car chassis
- Motor** : ERFA List
- ESC** : No Limit
- Battery** : Lipo max 7,6V (2s) - Max. 8,40V
- Tires** : **3 marked sets allowed from qualifying 1.**
- Min. Weight** : 1320gr (race ready, including PT)
- Rules** : **EFRA**

### Fronti 13.5t

- Chassis** : All front wheel drive Tourwagen chassis, scale 1:10 (FWD chassis)
- Body** : Only truthful bodies are allowed. So no aerodynamic bodies such as a Mazdaspeed
- Motor** : MuchMore Fleeta 13.5T - Type-W fixed Timing (MM-MR-FZX135WF)
- ESC** : Free (blinky mode\*)
- FDR** : 4.00
- Battery** : Lipo max 7.6V (2s) - Max. 8.40V
- Tires** : RIDE Pre Cut Slick 24mm (# RI-24025) with supplied insert. All rims (no disc rims) without offset are allowed. **2 marked sets allowed from qualifying 1.**
- Weight** : 1250 grams
-

## “MODEL AUTO CLUB”

# DE BAANBREKERS

---

### Pro-Ten

Direct drive over the rear axle (differential allowed). No independent rear suspension allowed.

The use of multiple speed transmissions or slipper clutches is not allowed.

**Maximum overall length** : 560mm

**Maximum overall width** : 250mm

**Wheelbase** : min 225mm, max. 280 mm

**Minimum height** : 75mm

**Rain:** In case of rain you can use a rain car that is equipped with a sensorless ESC/motor combo with max. 5400KV.

Both ESC and motor don't have a sensor connection, it's allowed to have a specific temperature sensor to monitor the motor temperature.

### Pro-Ten Stock 10,5T

**Chassis** : Scale 1:10 RWD Pancar chassis

**Body** : LMP, PanCar, CanAm, GTP, GT, WGT en Group C (see bodylist)

**Motor** : 10,5T

**ESC** : Free – Brushless type

**Battery** : Lipo max 7,6V (2s) - Max. 8,40V

**Tires** : Rubber or foam

**Min. Weight** : 1100 gram (race ready, including PT)

**Bodylist** : You can use bodies like:

PROTOform Swift 235 (#1553-25)

PROTOform Vulcan (#1566-25/1566-30)

Fenix R9 (#PC0001)

MIX-RC Lola (#KA01)

VIP VPL V2 (#KA04)

BLITZ P908 (60115-08)

BLITZ TS02E (60119-08/60119-10)

MonTec M10 narrow (200mm)

MonTec MF-10 Asphalt (200mm)

### Formula 1

Direct drive over the rear axle (differential allowed). No independent rear suspension allowed.

Front suspension only independent coil spring allowed, suspension pick up points must be mounted inside the body. Independent front shocks are not allowed. The use of a gyro or other electronic driving aids are not allowed.

**Maximum overall width** : 190mm

**Maximum wheelbase** : 280mm

**Maximum height** : 140mm

**Rain:** In case of rain it's allowed to use a new set of tires.

#### **Spoilers:**

**Front spoiler** : Width max. 200mm, chord dimensions max. 50mm.

**Rear spoiler** : Width max. 125mm, chord dimensions max. 75mm.

No remote adjustment of wings (DRS) allowed.

---

## "MODEL AUTO CLUB"

# DE BAANBREKERS

---

### Formula 1

|                    |   |
|--------------------|---|
| <b>Chassis</b>     | : Scale 1:10 RWD Formula 1 chassis  |
| <b>Body</b>        | : Formula 1 style, must be painted in a race inspired theme.<br>A driver figure must be installed in the cockpit  |
| <b>Motor</b>       | : Hobbywing 21,5t (Blue (90040150)/Gunmetal (90040151))<br>Hobbywing Justock 3650SD (30408003)<br>Hobbywing Justock 3650 G2 (30408007)<br>Scorpion RS-3420 21.5t "fixed timing" (SC-RS-3420-215TFW)<br>Fenix Hot stocks 21.5t (#FM00215-HS-ita)   |
| <b>ESC</b>         | : Free (blinky mode*)   |
| <b>Tires</b>       | : Ride GR (26040/26042)<br>Volante (VTVF1FM/VTVF1ARSS). No mixing of tires allowed.<br>The removal of the centre mould is permitted, further preparations are not allowed.<br><b>1 marked set front tires, 2 sets marked sets allowed from Q1</b> |
| <b>Min. Weight</b> | : 1050gr  |

\* The technical inspection may ask the driver to prove that the ESC is in blinky mode.

### EC08 Pan car

|                       |   |
|-----------------------|---|
| <b>Chassis</b>        | : 4-wheel drive, commercially available         |
| <b>Body</b>           | : Commercially available                        |
| <b>Motor</b>          | : Max. 2200Kv                                   |
| <b>ESC</b>            | : Free - brushless type                         |
| <b>Battery</b>        | : Lipo max 4.20 per cell (4s) - Max. 16.80V     |
| <b>Tires</b>          | : Foam or rubber, brand and type free           |
| <b>Minimum weight</b> | : 2200 grams (raceready, including transponder) |
| <b>Racetime</b>       | : 5 minutes                                     |

### EC08 Suspension car

|                       |   |
|-----------------------|---|
| <b>Chassis</b>        | : 4-wheel drive, commercially available         |
| <b>Body</b>           | : Commercially available                        |
| <b>Motor</b>          | : Max. 2800Kv                                   |
| <b>ESC</b>            | : Free - brushless type                         |
| <b>Battery</b>        | : Lipo max 4.20 per cell (4s) - Max. 16.80V     |
| <b>Tires</b>          | : Foam or rubber, brand and type free           |
| <b>Minimum weight</b> | : 2500 grams (raceready, including transponder) |
| <b>Racetime</b>       | : 5 minutes                                     |

---