



# New Jersey BRM Racers Rules Book

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## 1. INTRODUCTION

The main purpose of this document is to set expectations of slot car racers who want to participate in BRM races with the NJ BRM Racing group, so cars can be configured and raced in a fair and equitable manner.

Some of the allowed configuration changes documented here are not allowed in the International BRM Challenge. In some cases third party components are allowed in our races primarily for economic reasons. These changes are such that a racer can 'reverse them', and configure the car so that it does meet International BRM Challenge rules.

## 2. MODEL CARS

- 2.1 Models car eligible for BRM Challenges are all those already present in BRM catalog:
- BRM001 – Porsche 962C Kenwood White # 10
  - BRM002 – Porsche962C Kenwood Black & Red # 10
  - BRM003 – Porsche 962C From A # 27
  - BRM004 – Porsche 962C Leyton House # 16
  - BRM005 – Porsche 962C Momo # 30
  - BRM006 – Porsche 962c Advan # 25
  - BRM007 – Porsche 962 IMSA Budweiser # 86
  - BRM008 – Porsche 962 IMSA Coke # 5
  - BRM009 – Porsche 962 IMSA Lowenbrau # 14
  - BRM010 – Porsche 962 IMSA Miller # 14
  - BRM011 – Toyota 88C Minolta # 36
  - BRM012 – Toyota 88C Taka-Q # 37
  - BRM013 – Toyota 88C STP # 45
  - BRM014 – Toyota 88C Southeast Toyota Dealers # 98
  - BRM016 – Jagermeister Porsche Short tail #17

New models will be allowed in the future, only in the same category (Group C) and if specifically notified by BRM Model Cars, with special modification of this technical regulation. In the future there will develop other classes, which will be added to the regulations at that time.

- 2.2 All the parts of the model must be the manufactured by BRM, and they must ones used in the box stock car, with exceptions noted below.
- 2.3 Their replacement, or any modification, can only be done according to the rules herein.

## 3. MODEL BODIES

- 3.1 Must be complete in all its parts, except for mirrors, winglets, wipers, antennas.

- 3.2 Cannot be made lighter by sanding or any other means.
- 3.3 Body kits can be used, but they must be completely painted so that no unpainted areas remain (no clear coat only on white plastic).
- 3.4 The body weight should be no less than the standard box stock bodies.
- 3.5 Body minimum weight limit:
  - 3.5.1 Porsche 962C with rear wing type "A" gr. ...40
  - 3.5.2 Porsche 962C with rear wing type "B" gr. ...40
  - 3.5.3 Porsche 962 IMSA gr. ...40
  - 3.5.4 Toyota 88C (without rear wing, fixed to the chassis) gr. ...34
- 3.6 Porsche bodies (models BRM001 – BRM010) must be attached to the chassis using the provided screws and washers, screws must be stock length, no car may be raced with loose body screws. BRM cars have built in body float.
- 3.7 Washers may be glued onto the screws, for faster assembly.
- 3.8 Toyota bodies and Jagermeister Porsche 962 (BRM016) must be attached to the chassis with provided screws (fitted to bodies) and O-Rings (fitted to chassis)
- 3.9 Any screw sets screw/washer sets are allowed as long as they are no larger than stock. International BRM Challenge rules only allow BRM screws, therefore if you wish to participate in these races make sure non-BRM screws and washers are removed.
- 3.10 Windows must remain transparent. They are permitted only tampo-prints included in the standard models or decals added in self-painted kits, with the same size.
- 3.11 All the BRM aftermarket parts designed for each model can be used, except only the BRM motor type (usually stock type T-027) will be specified for each race.
- 3.12 Rear wing attachment can be reinforced with glue or tape, provided the body shape is not substantially altered.
- 3.13 Car cannot start the race without the Rear Wing. If they comes off during the race, they must refitted or replaced between race segments using methods described in paragraph 3.12 above. International BRM Challenge rules require immediate repair/replacement of wing should it become detached; keep this in mind if you wish to participate in these races.

#### **4. MODEL CHASSIS**

- 4.1 The chassis can be cleaned from injection flash.
- 4.2 Minimal trimming of the front edge of the chassis to allow wood guide clearance is allowed. No modification to axle mounts or bearings permitted, you may glue in the rear axle bearings but not modify their fitment in any way.
- 4.3 In the Porsche 962C chassis (first production), is permitted to modify chassis to allow adjustment of rear wheels and gear. But only in the same area as the IMSA Car chassis, no extra plastic may be removed.
- 4.4 Traction magnet must be removed.
- 4.5 It is allowed the use of adhesive tape under the chassis to prevent the loss of screws that fix the body.

- 4.6 The cockpit, the dashboard and the driver must be present and regularly fixed to the frame, as per specifications contained in the assembly instructions of the original BRM kits.
- 4.7 The cockpit, the dashboard and the driver must be painted.

## 5. FRONT AXLES, FRONT WHEEL HUBS/TIRES

- 5.1 Maximum front wheel width tire-to-tire are:
  - 5.1.1 for any Porsche mm. 82
  - 5.1.2 for any Toyota mm. 80In no case, wheels and tires must be visible outside the body when viewed from above (also in the case of front axle floating).
- 5.2 Only original BRM front tires are allowed. It is possible to lower front tires, but the outer diameter of the front tires can't be less than 23 mm. Front tires may be coated with clear nail polish, however International BRM Challenge rules forbid the use of any additives to the front or rear tires. Keep this in mind if you wish to participate in these races.

## 6. REAR AXLES, REAR WHEEL HUBS/TIRES, CROWN GEARS

- 7.1 Maximum rear wheel width tire-to-tire are:
  - 6.1.1 for any Porsche mm. 83
  - 6.1.2 for any Toyota mm. 81
  - 6.1.3 In no case, wheels and tires must be visible outside the body when viewed from above.
- 6.2 Rear tire type and size will be decided by the race organizers. Only tire cleaners/conditioners to be used are those allowed (if any) by hosting track. International BRM Challenge rules only allow BRM tires, and no additives or treatments to rear tires allowed. No glue or traction additives allowed in any race. Therefore if you wish to participate in these races make sure non-BRM tires are removed.
- 6.3 It is possible to turn the BRM rear tires, but their diameter must not be less than mm 27.5. If the outer diameter becomes less than mm 27.5, tires must be replaced immediately with others of the same type.
- 6.4 Only original BRM bearings are allowed; they could be in Teflon or Brass. Rear Bearings may be glued into the chassis. It is absolutely forbidden to change their position.
- 6.5 Only original BRM crown gears are allowed; the number of teeth of the BRM crowns is of free choice.

## 7. GUIDE BLADES (PICK-UP) AND CONTACT BRAIDS

- 7.1 Only original BRM Guide Blades (Pick-Up) are allowed. Must be held in place by provided O-Ring in correct stock position. The O-Ring holding the guide must not be glued to the post. Multiple o-rings can be used.

- 7.2 It is possible to use thicknesses (shims) between the guide blade and the chassis (guide shims), in order to make the front axle more efficient. International BRM Challenge rules only allow BRM shims, therefore if you wish to participate in these races make sure non-BRM shims are removed.
- 7.3 Only original BRM Contact Braids and spares are allowed, and can be cleaned using liquid braid cleaners as permitted at the hosting track. International BRM Challenge rules prohibit the use of any liquids on the braid. Keep this in mind if you wish to participate in these races.

## **8. MOTORS, PINIONS**

- 8.1 At this time, only the original stock BRM T-027 Electric Motors are allowed. Other BRM motors may be made eligible in other race classes as they develop.
- 8.2 Only original BRM pinions are permitted for use. At the time this version of the rules document was published, allowed pinions are BRM inline 8, 9 or 10 tooth gears.
- 8.3 Motor cannot be fastened to the chassis by glue or tape.
- 8.4 Motor may be shimmed to align the motor shaft at same level as rear axle. For NJ rules, any non-magnetic material can be used for this purpose. International BRM Challenge rules only allow BRM shims for this purpose. Keep this in mind if you wish to participate in these races.
- 8.5 Any maneuver to increase the motor's performance is forbidden, including use of performance enhancements liquid.
- 8.6 Removal or opening of the identification label on the motor is prohibited. Motor leads must remain as supplied by BRM no modification to fitment or length allowed.

## **9. WEIGHTS AND BALLASTS**

- 9.1 The minimum weight for any BRM car in running order is set to 180 grams.
- 9.2 The use of brass shaped weights, specific to each model and produced by BRM, can be used for balancing the model. Other weight can be used, but they must be taped or glued into place, and cannot be located outside of the chassis. International BRM Challenge rules only allow BRM weight; therefore if you wish to participate in these races make sure non-BRM weight is removable. Also, for International BRM Challenge races, the BRM shaped brass weights must be fixed in the chassis in seats of the same shape, with bi-adhesive tape, if used.

## **10. LIQUIDS, OILS AND GREASES**

- 10.1 May use oil or grease to lubricate motor, gears and axles.
- 10.2 You may lightly sand tires - no other chemicals or additives allowed.

- 10.3 No tire treatment of any kind is allowed (see exceptions above for NJ rules).
- 10.4 No liquids to be applied to the track surface by the Racers, only treatment allowed will be done by Race Officials.
- 10.5 In general: No treatment may be added to the braid on the car, or added on the track. See exceptions in above tire and braid sections for NJ rules.

## **DIFFERENCE SUMMARY: INTERNATIONAL BRM CHALLENGE RULES & NJ RULES**

**For those who wish to participate in officially sanctioned BRM Challenge races, you will need to ensure you comply with the rules below.**

**3.9 Any screw sets screw/washer sets are allowed as long as they are no larger than stock. International BRM Challenge rules only allow BRM screws, therefore if you wish to participate in these races make sure non-BRM screws and washers are removed.**

**3.13 Car cannot start the race without the Rear Wing. If they comes off during the race, they must refitted or replaced between race segments using methods described in paragraph 3.12 above. International BRM Challenge rules require immediate repair/replacement of wing should it become detached; keep this in mind if you wish to participate in these races.**

**5.2 Only original BRM front tires are allowed. It is possible to lower front tires, but the outer diameter of the front tires can't be less than 23 mm. Front tires may be coated with clear nail polish, however International BRM Challenge rules forbid the use of any additives to the front or rear tires. Keep this in mind if you wish to participate in these races.**

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8.4 Motor may be shimmed to align the motor shaft at same level as rear axle. For NJ rules, any non-magnetic material can be used for this purpose. International BRM Challenge rules only allow BRM shims for this purpose. Keep this in mind if you wish to participate in these races.

9.2 The use of brass shaped weights, specific to each model and produced by BRM, can be used for balancing the model. Other weight can be used, but they must be taped or glued into place, and cannot be located outside of the chassis. International BRM Challenge rules only allow BRM weight; therefore if you wish to participate in these races make sure non-BRM weight is removable. Also, for International BRM Challenge races, the BRM shaped brass weights must be fixed in the chassis in seats of the same shape, with bi-adhesive tape, if used.

10.5 In general: No treatment may be added to the braid on the car, or added on the track. See exceptions in above tire and braid sections for NJ rules.

***And finally, anything not expressly permitted by this Rules Book is prohibited.***