

BoxsterSpec (BSR) Class Rules for 2012

Version 1.1

1. Class Purpose

The purpose of this spec class is to provide a competitive racing class where the cars are reliable and performance potential is as even as possible. These rules are intended to control costs and remove any performance advantage from the cars so that driving ability and suspension set up are the greatest factors in determining race winners.

2. General Rules

All parts must be factory stock (OEM) from one of the eligible years, except where otherwise noted. No upgrade to any Boxster S component is allowed unless specified in these rules.

ANY MODIFICATION NOT EXPRESSLY COVERED BY THESE RULES IS PROHIBITED

NO MODIFICATION OF SPEC PARTS PERMITTED

NON-STOCK PARTS CAN HAVE NO POTENTIAL FOR AERODYNAMIC IMPACT

3. Eligible Models

1997-1999 Porsche 986 Boxster. 2.5 motor part #M96.20

4. Safety

All safety requirements are subject to the rules of the sanctioning body.

4.1 Electrical cutoff switches are required.

5. Roll Cages

Roll cages are required and may be of weld-in or bolt-in type. Cages must have a minimum of six connection points to the chassis. Typical connection points are (4) at the base of the main roll cage and (2) at the rear shock towers. Attaching to the windshield frame or B pillar is allowed.

NOTE: If you plan on racing your car in other production classes, please review the cage attachment rules for that class. More than 6 attachment points and the location of the attachment points may bump the car into an unplanned for class.

Roll cages shall not pass through any walls or sills but may pass through front bulkhead to be tied to shock tower. Roll cages must be constructed of either mild (DOM) steel or alloy (Chrome Moly) steel.

6. Weight

6.1 Vehicle weight

Minimum weight requirements must be met immediately following all qualifying sessions and races. Minimum weight = 2650 lbs including driver.

6.1.1 The choice of which non-performance systems/accessories to remove, in order to lighten the vehicle, is unrestricted.

6.1.2 Batteries may be swapped for a lighter type, but must be securely mounted in the stock location.

6.1.3 No drilling or sawing of metal body panels for lightening unless specifically allowed.

6.1.4 Spare tires may be removed.

6.2 Ballast weight

Ballast may be added to meet minimum weight but may not exceed 75 lbs. Ballast must be installed according to sanctioning body rules.

6.2.1 Max 25 lbs bolted to the floor of the passenger foot well OR retain passenger seat.

6.2.2 Max 50 lbs, bolted to the floor, directly behind the driver's seat.

7. Chassis

Seam welding of the chassis is not allowed.

8. Engine – General

All engines and their mechanical and electrical components must remain stock in specifications including tolerances except for:

IMS (Intermediate Shaft) bearing upgrade allowed.

Air injection system may be removed.

Note: The primary function of the air injection system is to improve emissions. It has been determined that its removal provides no performance advantage.

Engine and transmission must remain in their OEM location.

8.1 Motor/Transmission Mounts

8.1.1 No solid engine or transmission mounts are allowed.

8.1.2 Semi-solid mounts are allowed (Polyurethane or Delrin).

8.2 Cooling System/Radiator

8.2.1 Radiator fans may be direct wired with a switch **or entirely removed.**

8.2.2 One additional radiator, placed in the center of the grill area is allowed.

8.2.3 Boxster S or 996 center radiator (part # 996.106.037.51) is allowed as an addition to the stock radiators.

8.3 Oiling System

8.3.1 The factory oil cooling system must remain stock, except for the following allowed modifications:

- >> External oil cooler
- >> Upgrade to a Boxster S oil cooler (part # 996.107.025.57)
- >> Deep sump oil pan
- >> Accusump oil accumulator

8.4 Air Filter

8.4.1 No modifications to the factory engine air inlet or intake system.

8.4.2 Drop in OEM size/style replacement air filters only (part #996.110.131.04).

8.5 Fuel Tank and Filler

OEM fuel tank may not be modified and must remain in the stock location.

8.6 Fuel & Spark Plugs

Maximum 93 Octane fuel.

Spark plugs = Beru 14 FR-7 LUD

8.7 Pulley/Belt System

8.7.1 Alternate under-drive crank pulley is allowed, minimum 4" diameter, measured at the grooves.

8.7.2 No modification allowed to: water pump, power steering pump, alternator, idler pulleys and all must be operable and belt driven.

8.8 Computer Engine Management System

The stock computer engine management system must remain unmodified. **This includes any and all modifications to the immobilizer or related electronic components.** No other engine management system may be added.

8.8.1 No aftermarket chips are allowed.

8.8.2 No re-mapping or flashing of factory chips is allowed.

8.9 Exhaust System

8.9.1 Exhaust manifolds must remain stock.

8.9.2 Catalytic converters may be removed.

8.9.3 All other exhaust components are unrestricted.

9. Transmission / Differential

v. G86/00

9.0.1 Must remain OEM with unmodified components (no coatings or non-stock parts) except for the following:

A transmission oil cooler is allowed.

NOTE: The stock transmissions have proven to be somewhat delicate. Adding an additional cooling option for the transmission is seen as a reliability option and provides no performance advantage.

9.0.2 May be rebuilt but must retain OEM gear ratios

Ratios:

1st 10:35 = 3.500

2nd 17:36 = 2.117

3rd 28:40 = 1.428

4th 34:35 = 1.029

5th 38:30 = .789

Final drive is 9:35 = 3.889

9.1 Clutch & Flywheel

9.1.1 Any approved clutch disc and clutch cover (pressure plate) may be used.

Approved clutch components:

>> Factory replacement clutch kit (part # 986.116.911.00) for use with stock flywheel or Aasco lightened flywheel). Contains (1) clutch disc, (1) pressure plate and (1) release bearing.

>> Sachs Performance Clutch Spring Centered (part # 88 1861 000 017) for use with Aasco lightened flywheel.

>> Sachs Performance Sport Pressure Plate (part # 88 3082 999 754) for use with Aasco lightened flywheel.

9.1.2 Approved lightened flywheels are allowed.

Approved lightened flywheels:

>> Aasco lightweight aluminum flywheel (part # 106412-11)

9.2 Differential

Must remain within OEM ~~tolerances~~ specifications.

9.3 Shifters

9.3.1 Short-shift kits are allowed but not recommended.

9.3.2 Shifter base may be raised. ~~Shift cables must remain stock length~~

10. Suspension/Steering Components

10.0.1 All suspension components not otherwise listed must be OEM parts.

10.0.2 All suspension components must be mounted in the unmodified OEM original mounting locations.

10.0.3 No urethane bushings are allowed.

10.1 Shock Tower Braces

10.1.1 No modification of the shock tower is allowed.

10.1.2 Strut braces are not allowed.

10.1.3 Camber plates are not allowed.

10.2 A-Arms

10.2.1 Approved adjustable A-arms are allowed for the purpose of increasing negative camber in the front and rear wheels.

10.2.2 The approved adjustable A-Arms are:

>> Porsche factory parts only for the GT3 "Street", (left, part # 996.341.122.90, right part # 996.341.121.90)

10.3 Springs and Shocks

10.3.1 Shocks: Bilstein PSS9 part number 48-181440 (supersedes part # F4-GM5-8847-H0). PSS10s not allowed.

10.3.2 No in-cockpit adjustability. Stock valving only.

10.3.3 Springs may be changed only to:

>> Front 450 lbs

>> Rear 500 lbs

Approved Spring part numbers:

| Front Springs | Rear Springs |
|-----------------------------------|-----------------------------------|
| Manufacturer / Part Number | Manufacturer / Part Number |
| Swift Z70-152-080* | Swift Z70-152-090* |
| Eibach 0600.250.0450 | Eibach 0600.250.0500 |
| Eibach 0600.225.0450 | Eibach 0600.225.0500 |

NOTE: Cars built prior to 2012 are grandfathered for previously approved springs. It is expected that documentation will be provided to establish build year.

10.3.4 All spring and shock systems must mount in the OEM location only.

10.4 Sway Bars

- >> Front: Porsche GT3 (part # 996.343.701.90)
- >> Rear: Tarett Engineering (part # 986 RSBA)

10.4.1 No modification to mounting points.

10.5 Drop Links

- >> Front: Tarett Engineering (part # 996FDLNK), Tarett Engineering GT3 “long” links (part # EXTFDLNK) or modified stock
- >> Rear: Tarett Engineering (part # 996RDLNK) or stock

(Modified stock allows for a shortening of 2" for use with GT3 front sway bar)

10.5.1 Must mount to OEM shock location except for Tarett Engineering GT3 “long” links (part # EXTFDLNK) which mount to a provided threaded collar.

10.6 Toe Links

- >> Rear: Stock or Tarett Engineering (part # 996TLNK)

10.7 Ride Height

- >> Front: Minimum 90mm as measured at front cross of aluminum cross member (all parts and bolt heads).
- >> Rear: Minimum 90mm as measured at front-to-rear braces, near sway bar (all parts and bolt heads).

NOTE: Final height measurement needs to be determined based on measurement of several cars, to be done prior to January 1st 2012.

11. Wheels and Tires

11.1 Wheels

11.1.1 Any factory or aftermarket cast aluminum rim intended for use on the Boxster matching the original offset is allowed.

11.1.2 Wheel weight must be equal to or greater than stock.

- >> Front 17x7 inch - 18.5lbs minimum - 55mm offset
- >> Rear 17x 8.5 inch- 20 lbs minimum - 48-50mm offset

Or alternate square configuration:

- >> Front 17x 8.5 inch- 20 lbs minimum - 48-50mm offset
- >> Rear 17x 8.5 inch- 20 lbs minimum - 48-50mm offset

11.1.3 Steel bolts or lug nuts are required.

11.1.4 Wheel spacers are not allowed **except in the case of the square tire configuration where spacers are allowed up to 5mm.**

11.1.5 Hubs may be converted to studs in place of wheel bolts.

11.2 Tires

Spec tire is the Toyo RA-1 for both wet and dry (shaved)

Both the staggered and square tire configurations (defined below) are supported by the National 986 SPEC rules under the following conditions. Each sanctioning body is to determine one of the following tire configurations prior to the beginning of each season to be followed for the entire season.

11.2.1 Option 1

Staggered tire configuration only.

11.2.2 Option 2

Square tire configuration only.

11.2.3 Option 3

Staggered and square tire configuration defined as a driver option on a race by race basis.

Tire configuration options for National Events are to be determined by the host sanctioning body.

11.2.4 Staggered tire configuration:

- >> Front: 235/40 x 17**
- >> Rear: 255/40 x 17**

11.2.5 Square tire configuration:

>> Front: 255/40 x 17

>> Rear: 255/40 x 17

12. Brake System

12.1 Brake pads are unrestricted.

12.2 Steel braided brake lines are allowed.

12.3 Brake dust guards may be removed.

12.4 The emergency brake, lever and/or cables and all associated parts may be removed.

12.5 Brake cooling systems are allowed, provided they use only air to cool brake components. Air may be vented through the front air dam for brake cooling.

12.6 Rotors

12.6.1 OEM or OEM equivalent brake rotors required. Rotors must be within OEM tolerances at all times.

12.6.2 Rotors may be drilled and/or slotted.

12.7 Brake calipers must be OEM or OEM equivalent parts. No modifications allowed.

13. Battery

OEM location, min 10 lbs.

14. Data Acquisition and In-car timing equipment

Data acquisition systems are free.

15. Appearance

15.1.1 The class nomenclature of BSR (Boxster Spec Racer) shall appear on each side and the rear of the car in 4" contrasting letters.

15.1.2 Soft convertible tops and all associated motors and assemblies may be removed.

15.2 Bodywork

15.2.1 No Carbon fiber is allowed.

15.2.2 The front bumper must be located in the factory position and cannot be moved in any way.

15.2.3 Approved bumpers:

>> Stock (Front: part # 986.505.311.03, Rear part # 986.505.411.00) - stock front bumper may be cut out for additional radiator.

>> Stock Boxster S (Front: part # 986.505.311.04)

>> 996 Carrera 2 - same as found on US delivered 1999 C2 model (Front: part # 996.505.311.04/06)

15.2.4 Hood (part # 996.511.011.02) and deck lid (part # 986.512.011.01/02) must remain stock.

15.2.5 Front fenders (left part # 996.503.031.01, right part # 996.503.032.01/03) must remain stock.

15.2.6 996 GT3 style front splitter (part # 996.505.986.91) or replica only allowed.

15.2.7 Splitters may not extend forward of the front bumper, nor lower than 3" from the bottom of the front bumper.

15.2.8 Factory (left part # 986.559.981.00, right part # 986.559.980.00) or factory replica side skirts allowed.

15.3 Hardtops

15.3.1 Hard tops are mandatory and may be either factory or aftermarket fiberglass replicas of the factory roof with factory profile. No carbon fiber.

15.3.2 Rear window must be stock in appearance with no venting (can be Lexan material).

15.3.3 Hard tops must weigh a minimum of 10lbs.

Note: This was added to dissuade extreme lightweight hard top designs that among other things, flex to alter the top profile.

15.4 Exterior

Any exterior modification that is determined to have no performance enhancing value is allowed. This includes but is not limited to radiator inlet screens, side inlet scoops and screens, ventilation ducts to brakes or to the passenger compartment.

15.4.1 License plates, license plate frames, license plate lights, and insignias and emblems may be removed.

15.4.2 Hood pins are allowed and recommended. Stock hood latches may be disabled or removed.

15.4.3 All headlights and taillights must remain stock. Headlights may be covered.

15.4.4 Rear spoiler must be left in the upright position. Rear spoiler lift motor may be removed.

15.4.5 Rear bumper license plate area may be cut out to 27" wide by 7" tall max.

15.4.6 Tow hook hole max 6" x 3".

15.4.7 No other modifications permitted.

16. Interior

16.1 The driver or passenger seats must be replaced with any seat suitable for competition, and must be installed accordance with the sanctioning body.

16.2 Factory dashboard instrument pod must remain intact.

16.3 Additional gauges may be added.

16.4 996 instrument cluster may be used.

16.5 Factory navigation systems and all airbags may be removed.

16.6 Non-visible bottom edge may be removed to allow easier under-dash access.

16.7 Any steering wheel may be used except wood rimmed type steering wheels.

16.8 Quick release steering hubs are allowed.

16.9 Steering wheel lock must be removed.

- 16.10 The air conditioning/heating system may be removed.
- 16.11 Factory engine cover must remain in the stock and latched position.
- 16.12 All interior items may be removed except where otherwise noted.
- 16.13 The driver's side floor mat must be removed.
- 16.14 Both doors may be "gutted", but must remain hinged and operational.
- 16.15 Factory door beams must remain intact or NASCAR style side intrusion door bars must be added.
- 16.16 All insulating material may be removed from the interior.

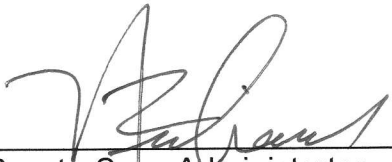
<<< END OF CLASS RULES >>>

Rules Submission

Sanctioning Body: PORSCHE OWNERS CLUB

Sanctioning Body Representative: MIKE TAKAKI

11/16/11
Date



BoxsterSpec Administrator
NICK RICHARDS