



## **986/Boxster Spec Class Rules for 2011©**

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### **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. This class will be referred to as the 986 SPEC class.

### **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 bodies.

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.

*(\*If you plan on racing your BSR in other production classes, please review the cage attachment rules for that class. More than 6 attachments 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) or alloy steel (Chrome Moly).

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

6.1.3 Spare tires may be removed.

### **6.2 Ballast weight**

Ballast may be added to meet minimum weight but may not exceed 75lbs. Ballast must be installed according to NASA CCR.

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

6.2.2 Max 50lbs, 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 (OEM) in specifications and tolerances except for:

IMS Bearing Upgrade allowed. Part No. TBD

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.

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 is allowed as an addition only to the stock radiators.

### **8.3 Oil**

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
- Deep Sump Oil Pans Allowed

8.3.2 Accusump oil accumulator is allowed.

### **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.

### **8.5 Fuel Tank and Filler**

OEM 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 etc and all must be operable and belt driven.

## 8.8 Computer Engine Management System

The stock computer engine management system must remain unmodified. 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 All other exhaust components are unrestricted.

8.9.3 Catalytic converters may be removed.

## 9. Transmission / Differential

v. G86/00

9.0.1 Must remain **OEM** with unmodified components (no coatings or non-stock parts).

9.0.2 May be rebuilt but must retain **OEM** gear ratios

□ Ratios:

1<sup>st</sup> 10:35 = 3.500

2<sup>nd</sup> 17:36 = 2.117

3<sup>rd</sup> 28:40 = 1.428

4<sup>th</sup> 34:35 = 1.029

5<sup>th</sup> 38:30 = .789

Final drive is 9:35 = 3.889

## 9.1 Clutch

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

9.1.2 Approved lightened flywheels are allowed.

9.1.3 Approved clutch kits:

- Factory replacement part number: 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 number: 88 1861 000 017 (For use with Aasco lightened flywheel)
- Sachs Performance Sport Pressure Plate part number: 88 3082 999 754 (For use with Aasco lightened flywheel)

9.1.4 Approved lightened flywheels:

- Aasco: 106412-11
- ~~Fidanza: 914572 (currently a discontinued product but stock available through parts distributors)~~

## 9.2 Differential

Must remain within **OEM tolerances**.

## 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”, part # 996.341.122.90 (lft) 996.341.121.90 (rt)

## 10.3 Springs and Shocks

10.3.1 Shocks: Bilstein PSS9 part number F4-GM5-8847-H0 (aka F4-GM5-8847-H2 or F4-GM5-H606-M0) only.

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

~~Swift Z70-178-080 Swift Z70-178-090~~  
~~Swift Z70-203-080 Swift Z70-203-090~~  
~~Swift Z65-152-080 Swift Z65-152-090~~  
~~Swift Z65-178-080 Swift Z65-178-090~~  
~~Swift Z65-203-080 Swift Z65-203-090~~  
~~Swift Z60-152-080 Swift Z60-152-090~~  
~~Swift Z60-178-080 Swift Z60-178-090~~  
~~Swift Z60-203-080 Swift Z60-203-090~~  
~~Eibach 0500.250.0450 Eibach 0500.250.0500~~  
~~Eibach 0600.250.0450 Eibach 0600.250.0500~~  
~~Eibach 0700.250.0450 Eibach 0700.250.0500~~  
~~Eibach 0500.225.0450 Eibach 0500.225.0500~~  
~~Eibach 0600.225.0450 Eibach 0600.225.0500~~  
~~Eibach 0700.225.0450 Eibach 0700.225.0500~~  
~~Hypercoil 5A0450 Hypercoil 5A0500~~  
~~Hypercoil 6A0450 Hypercoil 6A0500~~

Hypercoil 7A0450 Hypercoil 7A0500  
Hypercoil 8A0450 Hypercoil 8A0500  
Hypercoil 7B0450 Hypercoil 7B0500  
Hypercoil 8B0450 Hypercoil 8B0500

\* see "17 Phased Out Parts"

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

## 10.4 Sway Bars

- Front: ~~H&R 70779 OR~~ Porsche GT3 part no. 996-343-701-90 or Tarett Engineering part no. 996 FSBA
- Rear: ~~H&R 71779 OR~~ Tarett Engineering part no. 986 RSBA

\* see "17 Phased Out Parts"

10.4.1 No modification to mounting points.

## 10.5 Drop Links

- ~~Front: Tarett Engineering #996FDLNK, Tarett Engineering GT3 "long" links #EXTFDLNK or modified stock~~
- ~~Rear: Tarett Engineering #996RDLNK or stock~~

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

Must mount to OEM shock location except for Tarett Engineering GT3 "long" links #EXTFDLNK which mount to a provided threaded collar.

## 10.6 Toe Links

- Rear: Stock or Tarett Engineering # 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)

## 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

11.1.3 Steel bolts or lug nuts are required.

11.1.4 Wheel spacers are not allowed.

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

## 11.2 Tires

Toyo R-888

- Front: 225x45x17
- Rear: 255x40x17

## 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 with. 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 and caliper mounting brackets must be OEM or OEM equivalent parts. No modifications allowed.

## 13. Battery

OEM location, min 10lbs.

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

## 14. Data Acquisition and In-car timing equipment

Allowed

## **15. Appearance**

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

15.0.2 Soft convertible tops **must be removed**, and all associated motors and assemblies may be removed

15.0.3 Air dams and bumpers must be either stock or approved replica units.

15.0.4 No Carbon fiber is allowed.

15.0.5 Approved front bumpers:

- Stock
- Stock with cutout for additional radiator
- Stock or replica BoxsterS
- 996 Carrera 2 (same as found on US delivered 1999 C2 model)

15.0.6 Deck lids must remain stock.

### **15.1 986 Spec Bodywork**

#### **15.1.1 Splitters / Side skirts**

GT3 style factory part # 996-505-986-91 or clone only

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

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

15.1.4 Factory or factory replacement side skirts allowed.

#### **15.2 Hardtops**

15.2.1 Hard tops are mandatory and may be either factory or aftermarket fiberglass replicas of the factory roof with factory profile.

15.2.2 No carbon fiber.

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

**15.2.4 Minimum weight 10lbs**

#### **15.3 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.

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

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

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

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

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

15.3.6 Tow hook hole max 6" x 3".

15.3.7 No other modifications permitted. **No part may be added, removed, altered in size or shape or relocated to gain advantage.**

## **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 CCR

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 **must** 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.

## **17. Phased Out Parts**

**All newly excluded springs (10.3.3) and sway-bars (10.4) will be granted a phase-out period of 2 years (until Jan 1, 2013) for replacement.**