



# MotoAmerica Technical Bulletin

## 02-5000-24 Suzuki GSX-8 Balancing Restrictions

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All MotoAmerica Twins Cup teams and competitors:

2024+ Suzuki GSX-8S/R the following balancing regulations will apply: Adjustments to the balancing regulations may be adjusted by the MotoAmerica Technical Director or Permanent Bureau at any time.

### RPM

- a) 11,000 Maximum rpm limit.

### Minimum Weight

- a. **Minimum Weight 167.38kg (369 lbs.)**

### Cylinder head

- a) The cylinder head must be originally fitted and a homologated part. Only the following modifications are allowed:
- b) Surface grinding of the cylinder head surface on the head gasket side
- c) Original valve seats must be used, but modifications are permitted to the shape in the valve contact area, but not to the internal diameter of the main seal material.
- d) Valve springs may be altered or replaced.
- e) The throttle body intake insulators may be modified to match the inlet port shape.

### Camshafts

- a) May be either the originally fitted and homologated camshaft with no modification allowed or may be replaced with the MotoAmerica controlled camshaft with no modifications allowed. Price cap for the MotoAmerica controlled camshaft will be set at \$1200 USD.

To purchase MotoAmerica controlled camshaft contact.

- i. Vance and Hines - Craig Koontz <[ckoontz@vanceandhines.com](mailto:ckoontz@vanceandhines.com)> Part number 33-0384-SUZ GSXR-8 TWINS CUP CAM SET
- ii. M4 Team hammer - Chris Ulrich <[culrich@teamhammer.com](mailto:culrich@teamhammer.com)> Part number TH-8R-RR-CAM24

- b) Adjustable camshaft sprockets may be fitted.

### Cylinders

- a) Must be the originally fitted and homologated part with no modification.

### Pistons

- a) ~~Must be the originally fitted and homologated part with no modification.~~ **May be modified or replaced**

### **Piston rings**

- a) ~~Must be the originally fitted and homologated part with no modification.~~ **May be modified or replaced**
- b) All piston rings must be fitted.

### **Piston pins and clips**

- a) ~~Must be the originally fitted and homologated part with no modification.~~ **May be modified or replaced**

### **Connecting rods**

- a) Must be the originally fitted and homologated part with no modification.
- b) Rod bolts are free.

### **Air box**

- a) The air box must be the originally fitted and homologated part with **Only the following modifications are allowed:**
- b) The air filter element is required and must be mounted in the original position.
- c) The air filter element may be replaced, if replaced it must be mounted in the original position.
- d) Additional heat shielding is allowed (i.e. gold or silver heat tape).
- e) **If using the homologated air box, the air box lid may be removed or replaced.**
- f) **The homologated air box may be replaced with only the following**
  - I. **TST Sku: 23GSX8AB=1 - [TST WORX Airbox | Suzuki GSX-8R / GSX-8S](#)**
  - II. **A tray for oil containment must be fitted if using the TST air box.**

### **Fuel injection system**

- a) Air funnels/velocity stacks may be modified or replaced. Variable intake tract devices cannot be added

All other Twins Cup Technical regulations will apply.

MotoAmerica/AMA technical rules listed here - [Road Racing Regulations - American Motorcyclist Association](#)

Contact Technical Director - Tige Daane [tdaane@motoamerica.com](mailto:tdaane@motoamerica.com) with any questions or comments.