

## APPENDIX F – Supersport Regulations (Road)

This class allows for New Zealand distributors of Supersport machinery an opportunity to showcase their machines in a competitive environment, with some freedom for machine set up but within the confines of rules to suit New Zealand market conditions.

As the name Supersport implies, the machines used are allowed limited modifications.

### **Discipline Specifications:**

Supersport motorcycles require an MNZ homologation.

The appearance from both front, rear and the side profile of Supersport motorcycles must (except when otherwise stated) conform to the homologated shape (as originally produced by the manufacturer).

All parts and functions must remain as per OEM specifications unless stated otherwise!

- 1 **Supersport engine capacity:**  
501cc – 600cc 4-stroke 4 cylinders maximum  
601cc – 675cc 4-stroke 3 cylinders maximum (including 750V twins)  
  
**Number Plate Colours and placement:**  
Refer to rule 10.2a  
  
**Fuel:**  
Refer to rule 10.21a
- 2 **Supersport:**
  - 2.1 Subject to the required and permitted alterations set out below,  
**Supersport machines must:**
    - a) Be fitted with V.I.N compliance plates for the particular machine
    - b) Be of a make and model lawfully sold in New Zealand
    - c) Be as constructed by the manufacturer
  - 2.2 At least 10 production machines of that make and model must have been imported into New Zealand, by the manufacturer or the New Zealand distributor representing the manufacturer.
  - 3.1 **Tyres:**
    - a) Be the same as any commercially available tyres imported or stocked by New Zealand tyre importers (must not be a special brand or type acquired over the internet from overseas or from special sources).
    - b) Be manufactured for road use in all weather conditions
    - c) Be not less than the machine manufacturer's recommended speed and load rating
    - d) Be worn no more than to the minimum tread depth indicators

- e) Not be manufactured for only competition use
- f) Not have an augmented or modified tread pattern
- g) The use of tyre warmers is permitted

3.2 When a race or practice has been declared "wet", the use of a wet tyre is allowed.

4 **The following must be removed:**

- a) Headlamp
- b) Tail lamp
- c) Reflectors
- d) Horns
- e) Traffic indicators
- f) Mirrors
- g) Centre and side stands
- h) Registration plate / bracket and label holder

5 Any sharp edges left by the removal of these components must be protected by a rolled edge or beading of minimum 3mm diameter.

6 Engine and gearbox breathing hoses and tubes must exhaust into the air box to the rear of the intakes. The lower air box breather tube must be blocked.

7 **A chain guard or shark fin made of suitable material must be fitted in such a way to prevent trapping between the lower chain run and the final drive sprocket at the rear wheel. The leading edge of this guard must be a minimum thickness of 3mm and have a rounded edge to avoid this causing any injury in the event of a fall. Machines where the swing arm shape or positioning prevents fitment are exempted (for example Yamaha R1).**

8 All exposed lateral engine cases containing water or oil must be guarded from contact with the road surface in the event of a crash. The guard may be a second cover made from suitable materials such as carbon / Kevlar or suitable plastic or with heavy duty end cases or crash bars made from aluminium, steel or nylon.

For those machines that do not have commercially available cover.

(for example Kawasaki Ninja 250cc)

A frame mounted crash knob or a similar effective protector can be fitted as an alternative.

All of these devices must be designed to be resistant against sudden shocks abrasions and crash damage.

9 **For machines homologated with lower fairing, must be fitted with an integral lower fairing dam (Belly Pan) or separate catch tray which must be constructed and fitted to trap and hold engine oil and coolant with a capacity of not less than, four strokes =3.5 litres or two strokes =2.5 litres with no less than 2x25mm holes (1 front 1 rear) which will be fitted with rubber grommets that may be removed in wet conditions.**

- 10 **The following may be removed:**
- a) Passenger handholds and footrest assemblies
  - b) Instruments and associated cables
  - c) Air injection pollution control system
  - d) Carburettor anti-icing device
  - e) Rear fender
  - f) Handlebar switch blocks are open and may be changed or removed if serving no purpose on the machine as a race bike.
  - g) Upper chain guard
- 10a **The following may be added:**
- a) Steering damper
  - b) Ride height adjuster
  - c) Lap timing devices
  - d) Data logging equipment, provided no interface exists between logging equipment and management of engine systems
  - e) Quick shifters
  - f) Swingarm mounted sprocket guard where the device does not act as a tensioning device
  - g) Engine cut lanyard attached to the rider that will cut either the ignition or fuel supply to the engine.
  - h) If the machine is fitted from the manufacturer with an external heat exchanger then this can be replaced with an external oil cooler.
- 10b **The following may be replaced with parts not manufactured by the manufacturer of the machine:**
- a) Brake pads, linings and brake hoses
  - b) Fairing, screen, rear seat so as to provide for the mounting of a rear number plate, rear bodywork, Rider's seat, mudguards, tank covers, air box intake tubes, air intake in bodywork and side covers, but replacements must be the same in shape and appearance as the original, Carbon fibre is prohibited except for small amounts as reinforcement of the mounting points.  
Screen Profile to be open
  - c) Mounting brackets for fairings and screens but the replacements must be mounted on the frame at the original mounting points
  - d) Handlebars, handlebar mounted levers, master cylinders and controls. The rear brake master cylinder reservoir must hold a minimum of 20ml of brake fluid.
  - e) Footrests and foot controls, but the replacements must be mounted on the frame at the original mounting points
  - f) External gearing, and chain, but not chain pitch
  - g) Exhaust system
  - h) Wiring loom, ECU and fuel injection control units, only the standard functions of OEM ECU's are permitted to be used (this excludes quick shifter functions)
  - i) Spark plugs and high tension leads
  - j) Rear suspension damping units and springs

- k) The Clutch assembly may be replaced with an aftermarket unit specifically made for that model. OE Clutch plates, springs, and slipper springs may be replaced with aftermarket replacements
- l) Radiator expansion tank
- m) Battery, but the replacement must be capable of starting the machine prior to, and post race
- n) Fasteners for fitting external components where the motorcycle manufacturer has no specified torque setting or it is less than 10Nm
- o) Engine cam wheels, provided they are manufactured in the same material as the original
- p) Head Gasket
- q) Camshaft may be replaced, but the lift must remain standard
- r) Valve springs, collets and retainers
- s) Front suspension, springs and damping parts and fork top caps may be modified or replaced, but the external appearance of the forks must not be changed
- t) Air filters and Air funnels (Velocity Stacks)
- u) Fuel tank filler cap assembly providing there is no modification required to fuel tank
- v) Frame protective sliders, and engine case covers or protectors, but replacements must be the same in shape and appearance as the original
- w) Steering damper
- x) Brake disc's, provided they are made of similar material to the OEM part and are the same diameter, ie; no carbon, titanium or plasma coated items.
- y) Aftermarket radiators, or repairs to the original radiator are permitted provided there is no change to the bodywork. Double pass radiators are not permitted unless specified as original equipment.

10c **The following OEM parts may be modified:**

- a) Engine cam wheels may be slotted to alter valve timing
- b) Gearbox drive dogs may be undercut
- c) Cylinder head valve seats may be recut
- d) Cylinder head and cylinder block mating surfaces may be machined
- e) Crankshaft balancing is permitted by normal trade practices by the addition or removal of minimal amounts of material. Lightening is not permitted
- f) Pistons and con-rods can be balanced as per above