

A guard/cover must be fitted to the countershaft sprocket (if it is exposed).

29.03

A guard must be fitted to provide protection also where the rear chain enters onto the rear wheel sprocket.

01.31 EXHAUST PIPES AND SILENCERS

Exhaust pipes and silencers must fulfil all the requirements concerning sound-level control. Exhaust fumes must be discharged towards the rear but not in a manner as to raise dust, foul the tyres or brakes, or inconvenience a passenger, if there is one, or any other riders.

31.01 FIM homologated silencers

Only homologated silencers (**see listing after the Diagrams**) with their year of production stamped will be accepted for Speedway 500cc and 250cc, Ice Racing and Long Track 500cc and 250cc in FIM meetings.

Silencers for 500cc and 250cc Track Racing motorcycles must be homologated by the FIM. Any homologation will be valid for five years from the year of homologation.

Modifying the homologated silencer is not allowed on 250cc & 500cc Track Racing motorcycles. The only modification allowed to fit silencers for use on 250cc Track Racing motorcycles, is the reduction of the inlet diameter of the silencer down to 40mm.

31.03 Construction requirements

The silencer must be of a mechanical or "baffle" type, depending only on the position of permanently fixed internal pipes and plates to achieve the required maximum sound level.

A straight tube, directly connecting inlet and outlet of the silencer, without deflection of exhaust gas, is not permitted.

An exhaust extraction (megaphone) effect must not be caused by the positioning of any tapered, conical or other shaped parts.

The silencer must be made as one complete, sealed unit, without any removable parts.

31.03.1 The exhaust pipe must be fixed to the cylinder head and frame with a minimum of 3 clips (the point of fixture at the cylinder head is considered as one clip). The silencer must be fixed to the frame with at least one clip.

Additionally, a second flexible coupling must be fitted from the first third of the silencer to the frame. This second coupling should be a steel cable of at least 3 mm \varnothing or strong steel spring.

31.03.2 The outside diameter of the single exhaust pipe must not exceed 50mm and must be constant, in principle, over its entire length.

31.03.3 The outlet area of the silencer must remain constant over a length of 50mm and must not exceed 45mm internal diameter or an equivalent area and must not be perforated (no slots, holes, etc.).

31.03.4 The end of the exhaust pipe, over a minimum distance of 30mm, must be horizontal and parallel to the central axis of the solo machine (with a tolerance of $\pm 10^\circ$).

31.03.5 The end of the pipe must be cut at a right angle. The end of the silencer must be cut at a right angle. The silencer end must be a rounded edge with a diameter of 5mm minimum. See diagrams G, H, K and P.

31.03.6 Between the silencer and the tyre a maximum gap of 60mm (90mm for Ice Racing), with a tolerance of +/- 10mm), must not be exceeded (see diagram P).

31.03.7 From 2013, it is compulsory that all homologated silencers be fitted with a heat shield (guard), securely mounted on the exterior of the silencer, to give extra protection to riders in the event of close contact.

All newly FIM homologated silencers (2012 models and later) shall be equipped with a heat shield (guard), provided by the manufacturer of the silencer or their supplier.

31.04

The exhaust system must not extend beyond the outer circumference of the rear tyre, and must not end further forward than the centre of the rear wheel.

31.05

On a Sidecar motorcycle, the exhaust must discharge horizontally and towards the rear, at a maximum angle of 30° to the axis of the machine, and at the end must be of constant diameter over a distance of 30mm.

01.33 HANDLEBARS

33.01

The width of handlebars is:

85/125 cc:	Not less than 650 mm and not more than 850 mm.
250cc/500 cc Track Racing:	Not less than 700 mm and not more than 900 mm.
Ice Racing:	Minimum: 700 mm, maximum width: 800 mm.
All other:	Not less than 700 mm and not more than 900 mm.

33.03