



Retro Kart Championship Noise Regulations

For 2025 we have brought you a great calendar, and would like to continue this.

In order for us to be a sustainable championship, we need to take appropriate measures. Whilst we appreciate the need to keep the karts as close to period as possible, we also need to keep circuits and their owners happy. Like us and you the circuit owners do not want to change what we do, although they often come under the scrutiny of their local authorities following residents' complaints about noise which could jeopardise future events.

1. The responsibility rests with the Competitor to comply with the noise regulations.
2. Competitors must ensure that all equipment is prepared and equipped in order to meet or better noise level requirements.
3. Scrutineers will check all intake and exhaust silencers and their methods of fixing.
4. Any Competitor losing a silencer (Intake or Exhaust) during a race will be immediately shown a black flag and must leave the circuit.

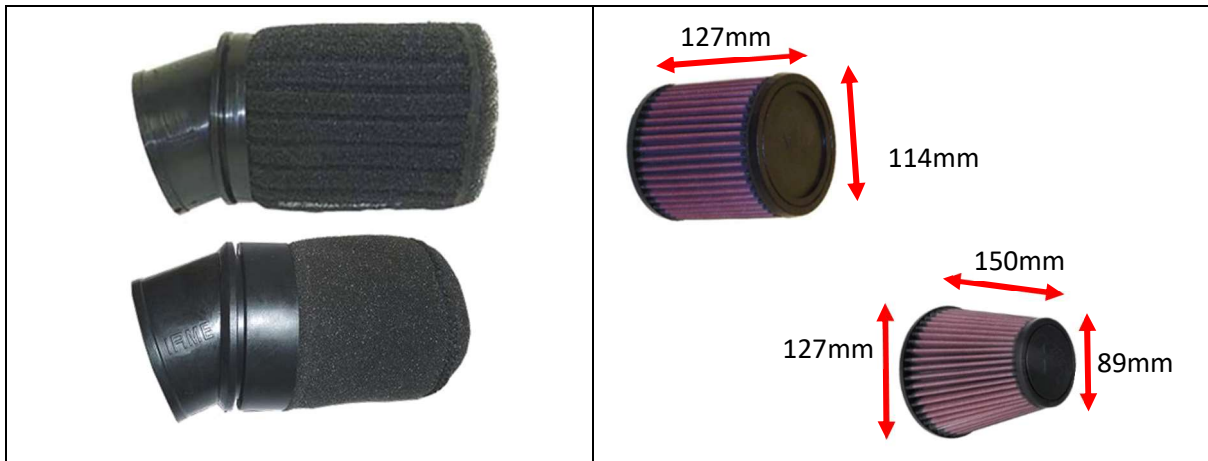
Intake System

Induction silencing is mandatory (All Classes).

Many of the classes are already running intake boxes from various eras. We don't want to take away the look of your karts

Please adhere to the following

Karts with Airbox	Karts without Airbox
Airbox must be sealed to the carburettor mouth.	Filter/Intake Silencer must be sealed to the carburettor mouth
Airbox must contain a Foam Filter / Intake Silencer	The Filter/Intake Silencer must be intact and complete with no rips, tears or sections missing
The Foam Filter/Intake Silencer must be intact and complete with no rips, tears or sections missing	All air entering the carburettor must pass through the Filter/Intake Silencer
All air entering the carburettor must pass through the Foam Filter/Intake Silencer	



Exhaust System

Exhaust silencing is mandatory.

The Kart must have protection to prevent any contact between the exhaust system and the Driver when seated in the normal driving position.

All components of the exhaust system must be a gas tight fit

All Gases must pass through the silencer

Attention must be given to the exhaust system's maintenance. It is important that flex connections and joints are checked regularly and made good.

Exhaust silencers that contain packing/wadding, such as Gearbox types, must be repacked regularly to comply with noise regulations.

Gearbox Karts

Silencers/mufflers must meet the following criteria:

- Canister dimensions: minimum cross-section 80mm and a minimum length of 250mm.
- The canister must be used with muffling material (Wadding) packed adequately to be an efficient silencer.
- The use of baffle plates alone is not acceptable.
- Maximum outlet 38mm

Direct Drive Karts

- Flexible connections must be wrapped with heatproof material or sleeving.
- Exhaust must be fitted around the exhaust to prevent direct contact with the cradle and springs
- Compulsory end cans/bean cans must be fitted with the exit holes facing downwards

Cooling Fins

If the engine manufacturer has incorporated noise reducing technology already then there is no need to fit additional fin rubbers (See Guidelines below)

If there is no noise reducing technology incorporated then you must have a minimum of 2 strips of fin rubbers in both the cylinder and cylinder head; these may be moulded in-situ, using silicone or butyl, or made from silicone cord which can be cut and pressed between the fins or pulled through holes in the fins.

Examples



General Guidelines

As part of Retro Kart Championships' commitment to noise reduction,

We advise

- to ensure adequate fin rubbers are fitted to meet the noise regulations – the more the better.
- for gearbox karts,
 - rear exit exhaust port, advise to use silencers with a 180° link pipe and a silencer minimum Length 380mm x 100mm diameter mounted parallel to the rear axle
 - front exit exhaust port, advise to use silencers with approx. 90° link pipe and a silencer minimum length 380mm x 100mm diameter mounted parallel to the rear axle
- for direct drive karts, additional silencer.

We insist

- No running of engines before the official start time of the meeting.
- Be respectful of local residents when travelling to and from circuits.

To Help you

Filters and other components can be purchased from any source however Dartford Karting will give special discounts to RKC members.

These include a foam filter and silicone cord kit below cost for £20 +vat