

FP4 Post Race Inspections - Appendix 3

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Introduction

FP4k is a UK based MSUK club that races using the Briggs & Stratton World Formula engine. The intention of this manual is to allow the race officials from the tracks that we visit to check the eligibility of our engines to ensure that regulations are being followed and fair racing is being undertaken.

Tools

The below tools have been supplied in order to assist with checking the conformity of the World Formula engine.

Carburettor throat tool	0001 T	yre depth gauge	0004

Spirit Level 0002

Oil funnel & jug 0003



B&S World Formula engine

Oil

With the engine level in both the X & Y axis the oil should just be just touching the sixth thred down from the top, the pictures below show the **minimum 400ml / 14oz** that must be present at the end of the race. If it is deemed that this level has not been met then it is suggested that the oil is drained and checked using the tools provided.







Carburettor



Air Filter & Rain Covers

Only the supplied (Green) air filter can be used, it needs to be fully intact and have no holes present.

A B&S or Non-B&S Rain Sock may be used as long as the original filter is in place.









Clutch

Only the Titan clutch is allowed as supplied and unmodified. Clutches may be run with any of the three different colour springs available from Briggs & Stratton

Either 16 & 17 tooth sprockets may be used.



Cylinder Head

May be skimmed to a minimum head thickness of 2.415". This allows for around 0.016" to be removed for truing of the head depending on the starting thickness at manufacturing. The head must be measured at the point shown in our Post Race Inspections sheet and with an appropriate micrometre.







Cylinder Head Gasket

A Cometic .045 gasket is the only permitted gasket other than the B&S stock gasket that may be used. This is to prevent the head from warping once the head has been machined flat.



Kart Exhaust Silencer

A standard TKM type silencer (single exhaust outlet) or the RLV (4108) short bore exhaust are the only models permitted. These must be un-modified with baffles in place.









Driver Weights

1 Tooth may be added per 7 kg over the minimum 165kg up to a maximum of three teeth

For the avoidance of doubt, in 165kg class:

172kg minimum weight = 1 extra tooth may be added

179kg minimum weight = 2 extra teeth may be added

186kg minimum weight = 3 extra tooth may be added

A maximum of three teeth from the advertised 165kg class gearing, may be added if the total weight allows.

For Drivers under 16, the minimum driver weight is 53kg in 165kg class, and 58kg in 179kg class.



Tyres

Dry: Maxxis Sport Front 10 x 4.5 x 5, Rear 11 x 7.1 x 5
Wet: Maxxis SLW Front 10 x 4.2 x 5, Rear 11 x 6.0 x 5

Tyres must be fitted to run in the correct direction of rotation, as indicated by the arrow on the tyres. Only the issued, documented tyres can be used for race day. They must also carry the FP4 laser etched logo.