



## METRAKIT MACHINE & SERIES GUIDELINES

### To All Metrakit Competitors

Welcome to the 2010 Season,

Our joint aim is to provide a fair and relatively inexpensive way to go racing. This is why both Troy Corser Agencies & Metrakit Australia are very strict on controlling fairness in the way of machine preparation & code of conduct. Neither party will accept any modifications whatsoever to do with the race machine and the series guidelines. Both TCA & Metrakit understand that there is room to improve these engines, but the engines have been designed to run competitively and reliably on 98 to 100 octane pump bowser fuel and we have set a precedent of rules. We advise you to take this opportunity to revise these rules/regulations and abide by them to avoid disqualification from the Metrakit Series & Championship Event. Random Machine checks including a total strip down of machinery may be carried out anytime throughout the Series Rounds, this is in addition to the compulsory strip down of machinery at the conclusion of the 2010 Championship event. These Machine and Series Guidelines were implemented from the inception of the series & must be complied to. **It is the Sole responsibility of the Rider & his or her parent or Guardian (ONLY) to ensure that their Metrakit Machinery is OEM & Complies to the Metrakit Machine & Series Guidelines. Non compliance or machine irregularities will result in the Rider being disqualified.**

### THINGS YOU CAN DO TO YOUR MACHINE!

1. Suspension adjustments to suit the rider. This can be done by external adjustments on the bike, (preload, rebound, compression & ride heights). Spring rates front & rear can be changed utilising genuine OEM Metrakit parts available for that model only (no interchangeable suspension between 70 and 80cc). Suspension oils/weight and levels also re-gassing can be altered to suit rider. No other modifications other than what has been stated above to suspension units.
2. Engine. The engine must remain stock standard in everyway. You can change your carburettor jetting in each fuel & air phase. The ignition timing can be adjusted (at your own risk) as the machine allows for this with the rotational plate adjustment (this is not recommended due to reliability issues). There is to be no small coil rewinds etc.. A range of OEM base gasket thicknesses are available and can be used. No other brands or homemade tolerances here. (No machining of heads or cylinders, crankcases or any engine component whatsoever). Stacking of OEM gaskets is allowed but yet again no machining.
3. Reed Valves. Must remain stock standard, Metrakit have 3 different thickness petals available that are allowed to be changed. At this present time there is only one thickness available. These reed petals must only be strictly of Metrakit manufacture.
4. Spark Plugs, brake pads & Chains. Any brand of spark plug must cross reference to the NGK OEM , brake pads OEM, Any brand of chain or sprocket may be used (Chains & Sprockets must remain the same pitch as OEM). METRAKITs come supplied standard with the ultimum set up here anyway.

5. External Gear Shifter Rod. This external gear shifter rod & rose joints can be modified or beefed up if needed. ( No modifications or changes allowed to the combination of the internal gear ratio's )
6. Rear silencer. Can be internally braced for strength ONLY. **(No Other modifications to the exhaust systems flow).**
7. Steering Damper. These units can be used aftermarket in any brand.
8. **TYRES** OPEN BRAND.TYRE SIZES MUST BE RETAINED OEM for 70 & 80 Machinery.  
**70cc** Front: 120/70-12, Rear 130/70-12 or front 100/90-12, rear 120/80-12. Wets allowed. **NO SLICKS ALLOWED**  
**80 cc** Front: 95/70 R17, Rear 115/70 R17. Slick tyres must be used with the tolerances of compound A, B, C & D. wet weather tyres Dunlop or equivalent wets are allowed.
9. External Gearing. External final drive ratios can be adjusted. Any brand sprockets (Sprockets must remain the same pitch as OEM). *(no internal ratios to be changed)*
10. Fuel must be of premium unleaded 98 to 100 octane, available from any service station or Shell V- Power 100 octane service station bowser origin only. No barreled race fuels or aviation fuels what so ever

#### POINTS OF IMPOUNDED SCRUTINEERING.

At any event throughout the series including the end of year Championship, machines in the 70cc and 80cc classes can be impounded at anytime for inspection to OEM & OEM specifications & Machinery guidelines. Any machinery found not to comply with these series guidelines will result in the registered competitor of machinery disqualified from the event and stripped of points & status. Refusal to provide machinery for inspection or refusal to co-operate in assisting with any process required for inspection will also result in disqualification. A team member must be available at all times and with appropriate tools. The rider/ Team/ Parent/ Guardian are responsible in replacing any parts damaged or otherwise in this process and for disassembly and assembly.

The checks and measuring will be taken on any of the following and some:

1. Cylinder and cylinder head regulations. *(No machining, grinding port polishing, remoulding or removal of any material whatsoever fullstop!!!) (port heights & squish checks) (Cylinder head may be cleaned from carbon deposits but no reshaping of squish or combustion dome, no polishing or rounding of head dimensions or edges & burrs.).*
2. Cylinder and cylinder heads gaskets.*(check on thickness & origin)*
3. Expansion Chamber measurements. *(No matching of exhaust to cylinder or machining of internal /external welding).*
4. Reed valve cases or aftermarket petals and spacers. *(Again no spacers or extra gaskets, no removal of material or build up of material).*
5. Carburettor polishing or boring. *( No Carburettor polishing or boring )*
6. No ICAT ignition enhancers.
7. Crankcase inspection. *(no machining, grinding, remoulding or additions to crank or crankcase including ceramic bearings)*
8. Clutch additions. *(OEM spec, no additions or removals).*
9. Internal gearbox ratios. *(OEM spec, no exceptions)*
10. Fuel must be of premium unleaded 98 to 100 octane, available from any service station or Shell V- Power 100 octane service station bowser origin only. *( No barreled race fuels or aviation fuels what so ever)*

The above mentioned is only a general guideline of checks. Various other areas may be checked for OEM specifications.

#### "IMPORTANT NOTICE"

The reason for this scrutineering is not to discriminate but for the peace of mind for all who compete in this fair and competitive controlled form of racing.

This racing is designed to nurture the talent of the rider and his/her hired help to gain the most advantage out of a given standard race prepared motorcycle, along with the pilot's acquired or natural talents of machine operation.

It is not fair on the rider if he has no idea of illegal enhancement by a team member, so keep this in mind before preparing your machine.

We do not want to see anyone upset or disqualified, so be thorough in your preparation. If you have any questions on your machine you can contact Dion [sales@metrakit.com.au](mailto:sales@metrakit.com.au) or Rob [tech@metrakit.com.au](mailto:tech@metrakit.com.au) or phone 03 9729 8911.



One in the position above

Example: One on each side of machine

### SERIES SPONSOR DECAL PLACEMENT (“IMPORTANT”).

All Competitors must display Series Sponsor Decals in allocated area “No decals no eligibility”

THE ATTACHED PHOTO'S WILL SHOW PROPER TCA DECAL PLACEMENT AREAS.  
(These positions must be kept vacant for application)

In order to protect our IP rights and to avoid any infringement of our trademarks. ONLY CORPORATE TCA DECALS SUPPLIED THROUGH TROY CORSER AGENCIES & METRAKIT AUSTRALIA ARE PERMITTED. . This allocation on each machine has series and sponsor rights; therefore any resizing, copying or altered logo decals imposing advertising in this allocated area on the machine is prohibited. Any machine that has imposing advertising material in this given zone, or TCA decals not properly displayed will not be eligible for points or awards.

All Metrakit Machinery MUST display Metrakit Decals (one on each side of machine in any location). **(Metrakit Australia & Troy Corser Agencies do not give authority to reproduce/ copy their corporate logos or trademarks).**

We look forward to meeting with you all, and wish you all good luck and success in 2010

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