

DIRT OVAL KARTING *in* **SOUTH AFRICA**



TECHNICAL **RULEBOOK**

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1. Engine Rules

The following rules shall apply to all karts competing in events organized by Cape Oval Dirt Karting, Zone 7 Dirt Karting, George Dirt Karting, and Oudtshoorn Oval Karting during the 2026/2027 racing season.

These regulations will be reviewed annually in June / July. Each club will send two representatives to the technical regulations meeting, where suggested changes will be voted on. A majority vote decides the outcome. If the vote is tied, no changes will be made. If changes are approved, they'll be implemented at the start of each club's new season.

GENERAL (These rules apply to all classes)

- 1.1 Honda / Hoffmann or Chinese GX type 4-stroke engines (vanguard engines) or Briggs where applicable will be used to participate in the classes mentioned below as long as they conform to the class rules and specifications.
- 1.2 Participants will not be allowed to use an engine of smaller capacity than the class states. Participants may only participate in a class with the car specified for the class in question. No exceptions will be allowed. 425 Supermods will be allowed to use 390 engines
- 1.3 The changing of original mounting points to accommodate the carburetor will not be permitted in any class whatsoever except in the Outlaw karts and Open class.
- 1.4 A pulse fitting for fuel pump may be fitted.
- 1.5 Electric starters may be fitted to any class.
- 1.6 No turbo, superchargers or fuel injection allowed except for the Open class.
- 1.7 Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed.

The following rules apply to all classes:

Nuts, bolts & washers	No limitation on origin, grade or type of nuts, bolts and washers used.
Exhaust	Any exhaust may be used. It must be secured on three different mounting locations. Must slope downwards not more than 45°. No exhaust may protrude the rear bumper. Exhaust fumes / gases may not cause affect to fellow competitors. When necessary, restrictions on sound levels deemed may be enforced.
Fuel Tank	The gravity feed fuel tank may be removed, and any applicable fuel pump may be fitted.
Cylinder head	If needed valve seats may be replaced or seats may be cut. No limitation on valve seat angles. Skimming of cylinder heads allowed to class specification.
Clutch & Chain	Only mechanical sound centrifugal clutch to be used. Any pitch chain allowed.
Carburetors	Jetting allowed
Connecting Rod	Drilling of hole for oil feed. Machine connecting rod to fit big end bearing.
Skimming	Block and head skimming allowed within stated CC restrictions as per class
Exhaust	Exhaust may be replaced must have 3 mounting points.
Crankshaft	Refer to class rules.
Valve seat angles	No limitation on valve seat angles
Governors	Remove low oil sensor and governor.
Pushrods	No limitations
Starters	An electric starter may be fitted / External starter allowed.
Air Cleaners	Air cleaners may be replaced. Safety cable or chain to be fitted
Fuel Tank and fuel pumps	Top mount fuel tank may be removed, and a pulse fitting may be fitted for the fuel pump.
Machining	No machining allowed that is not specifically specified

2. Developments

Based on performance by committee driver can be moved to Junior (200cc) class.

2.1 Age 5 to 14 years Age at committee's discretion.

2.2 The engine (Honda / Hoffmann / Chinese) must comply with the original 160cc / 200cc specifications. The following regulations apply.

2.3 Engine capacity	166cc -211cc max.			
2.4 Engine casing	Honda /Hoffmann and (Chinese motors) 160cc / 200cc. (No Briggs)			
2.5 Valves and springs	Original Honda / Hoffmann /Chinese 160cc / 200cc valves and rockers for this engine only. Original Honda / Hoffmann / Chinese 160cc / 200cc. Max 34.4mm free length valve springs for this engine only. No machining allowed. Only single springs.			
	Diameters	Head (mm)	Stem (mm)	
	Intake valve	25 mm max.	5,318 mm -	5,48 mm
	Exhaust valve	24 mm max.	5,275 mm -	5,44 mm
2.6 Piston and rings	Honda / Hoffmann / Chinese pistons and rings for this engine only to a maximum of second oversize (70.5mm). No machining on piston allowed. Piston may not protrude above bore. Small plant pistons only.			
2.7 Crank and conrod	Original Honda / Hoffmann / Chinese 160cc / 200cc (Max 54mm stroke) crankshaft can only be machined to fit big end bearing and clutch. Original Honda / Hoffmann / Chinese 160cc / 200cc connecting rod can only be machined to fit big end bearing. No other machining allowed.			

2.8 Flywheel and cooling fan	Original standard 160cc / 200cc cast iron flywheel (pull start) or ring gear flywheel (electric start) and key to be fitted. Step key allowed. Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed. Original or look alike GX160V aluminum flywheel allowed, no racing flywheels, no machining allowed. Standard 160cc / 200cc cooling fan to be fitted, no alterations allowed.
2.9 Coil	Original standard 160cc / 200cc coil and M6 bolts no machining allowed and original mounting points.
2.10 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
2.11 Carburetor	Original Honda / Hoffmann / Chinese 160cc / 200cc carburetor for this engine only. Butterfly size = Max 19mm; No adjustable main jets allowed, and no machining allowed. Choke must be fitted.
2.12 Isolator block	Max 8mm isolator block with Max 19mm center hole must be in position no machining allowed; Gaskets may be matched to carburetor and intake port. Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
2.13 Cylinder head	Cylinder head combustion chamber must have a capacity of not less than 12cc (cc to be tested with fuel sample of kart) when plug is fitted only skimming allowed no welding. No porting or polishing of ports allowed. Original carburetor mounting points.
2.14 Head gasket	Original Honda / Hoffmann / Chinese head gasket for this engine only. No handcrafted head gaskets allowed.
2.15 Camshaft	No limitations
2.16 Mass of racing unit	100 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

3. 200cc

3.1 Age 5 to 14 years Age at committee's discretion.

3.2 The engine (Honda / Hoffmann / Chinese) must comply with the original 160cc / 200cc specifications. The following regulations apply.

3.3 Engine capacity	166cc -211cc max.			
3.4 Engine casing	Honda /Hoffmann and (Chinese motors) 160cc / 200cc. (No Briggs)			
3.5 Valves and springs	Original Honda / Hoffmann /Chinese 160cc / 200cc valves and rockers for this engine only. Original Honda / Hoffmann / Chinese 160cc / 200cc. Max 34.4mm free length valve springs for this engine only. No machining allowed. Only single springs.			
	Diameters	Head (mm)	Stem (mm)	
	Intake valve	25 mm max.	5,318 mm -	5,48 mm
	Exhaust valve	24 mm max.	5,275 mm -	5,44 mm
3.6 Piston and rings	Honda / Hoffmann / Chinese pistons and rings for this engine only to a maximum of second oversize (70.5mm). No machining on piston allowed. Piston may not protrude above bore. Small plant pistons only.			
3.7 Crank and conrod	Original Honda / Hoffmann / Chinese 160cc / 200cc (Max 54mm stroke) crankshaft can only be machined to fit big end bearing and clutch. Original Honda / Hoffmann / Chinese 160cc / 200cc connecting rod can only be machined to fit big end bearing. No other machining allowed.			

3.8 Flywheel and cooling fan	Original standard 160cc / 200cc cast iron flywheel (pull start) or ring gear flywheel (electric start) and key to be fitted. Step key allowed. Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed. Original or look alike GX160V aluminum flywheel allowed, No racing flywheels, no machining allowed. Standard 160cc / 200cc cooling fan to be fitted, no alterations allowed.
3.9 Coil	Original standard 160cc / 200cc coil and M6 bolts no machining allowed and original mounting points. No ground straps.
3.10 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
3.11 Carburetor	Original Honda / Hoffmann / Chinese 160cc / 200cc carburetor for this engine only. Butterfly size = Max 19mm; No adjustable main jets allowed, and no machining allowed. Choke must be fitted.
3.12 Isolator block	Max 8mm isolator block with Max 19mm center hole must be in position no machining allowed; Gaskets may be matched to carburetor and intake port. Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
3.13 Cylinder head	Cylinder head combustion chamber must have a capacity of not less than 12cc (cc to be tested with fuel sample of kart) when plug is fitted only skimming allowed no welding. No porting or polishing of ports allowed. Original carburetor mounting points.
3.14 Head gasket	Original Honda / Hoffmann / Chinese head gasket for this engine only. No handcrafted head gaskets allowed.
3.15 Camshaft	No limitations
3.17 Mass of racing unit	105 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

4. 270cc

5.1 Age 10 – and older. Age at committee's discretion.

5.2 The engine (Honda / Hoffmann / Chinese) 240-270cc specifications. The following regulations apply:

4.3 Engine capacity	274cc max.			
4.4 Engine casing	Honda / Hoffman / Chinese 240-270cc			
4.5 Valves and springs	Original Honda / Hoffmann / Chinese 270cc valves for this engine only. Original Honda / Hoffmann / Chinese 270cc Max 39mm free length valve springs for this engine only. Only single springs.			
	Only machining allowed for cotter grooves and seat angles, no other machining allowed. No limit on valve seat angels.			
	Original "plate" rockers for this engine only. No reinforcing allowed.			
	Diameters	Head (mm)	Stem (mm)	
	Intake valve	30 mm max.	6,44 mm -	6,59 mm
4.6 Piston and rings	Exhaust valve	26 mm max.	6.40 mm -	6,55 mm
	Honda/Hoffmann / Chinese piston and rings applicable to this engine only. Piston may not protrude above bore. Small plant pistons only to 77.5mm max.			
4.7 Crank and conrod	Original Honda / Hoffmann / Chinese 270cc (58mm stroke) crankshaft can only be machined to fit big end bearing and clutch. No other machining allowed. Original Honda / Hoffmann / Chinese 270cc connecting rod can only be machined to fit big end bearing.			

4.8 Flywheel and cooling fan	Original standard 270cc flywheel (pull start) or ring gear flywheel (electric start) no machining allowed and key to be fitted. Step key allowed. Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed. Standard 270cc cooling fan to be fitted, no alterations allowed. External starters allowed.
4.9 Coil	Original standard 270cc coil and M6 bolts no machining allowed and original mounting points. No ground straps.
4.10 Carburetor	Original standard Honda / Hoffmann / Chinese 270cc. Maximum butterfly size 21mm. No machining allowed. Choke must be fitted. Original mounting point.
4.11 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
4.12 Isolator block	Original isolator block to be used, No machining allowed. Pulse fitting may be fitted.
4.13 Cylinder head	Cylinder head combustion chamber must have a capacity of not less than 21cc (cc to be tested with fuel sample of kart) when plug is fitted only skimming allowed no welding. No porting or polishing of ports allowed. Original carburetor mounting points.
4.14 Head gasket	Original Honda/Hoffmann / Chinese head gasket for this engine only. NO handcrafted head gaskets allowed.
4.15 Camshaft	No limitations.
4.16 Mass of racing unit	145 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

5. 300 Mods

5.1 Age 14 years and older. Age at committee's discretion.

(12 years and older, with 2-year 270 experience, Previous season top 3, to apply at committee for approval)

5.2 The engine (Honda / Hoffmann / Chinese) 240-270cc specifications. This is a modified class.

5.3 Engine capacity	307cc max.
5.4 Engine casing	Honda / Hoffman / Briggs / Chinese 240-270cc
5.5 Valves head diameters	No limitation
5.6 Piston	No limitation
5.7 Crank and con rod	No limitation
5.8 Flywheel and Cooling fan	No limitation
5.9 Coil	No limitation
5.10 Carburetor	No limitation to Honda / Hoffmann / Slide
5.11 Isolator block	No limitation to length, original mounting points
5.12 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
5.13 Cylinder head	No limitation to Honda / Hoffmann / Chinese Head but original carburetor mounting points to be retained.
5.14 Head gasket	No limitation
5.15 Camshaft	No limitation
5.16 Mass of racing unit	165 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

6. 390cc / 390 Ladies

6.1 Age 16 years and older. Age at committee's discretion.

6.2 The engine (Honda / Hoffmann / Chinese) must comply with the original 390cc specifications. The following changes are permitted:

6.3 Engine capacity	395cc max.	
6.4 Engine casing	Honda / Hoffman / Chinese 340-390cc.	
6.5 Valves and springs	Any valve may be used, on the following conditions: Valve head diameter to correspond with original Hoffmann/ Honda / Chinese valves for this engine. May machine to size, no other machining allowed on valve. Length of valve stems to correspond with original Hoffmann/ Honda / Chinese valves for this engine, may be machined to fit cotters. Original Hoffmann/Honda / Chinese 390cc Single valve spring with Max 39.0mm free length to be used only Original "plate" rockers for this engine only. No reinforcing allowed. No limit on valve seat angels. Spring allocation in head may be fly cut to allocate spring base.	
	Diameter of Valve Head	Intake valve 35 mm max
		Exhaust valve 31 mm max
	Diameter of Valve stem	6.44-6.6mm 6.40-6.6mm
6.6 Piston and rings	Original Honda / Hoffmann / Chinese pistons and rings for this engine only to a maximum of second oversize (max 88.5mm). No machining on piston allowed. Piston may not protrude above bore. Small plant piston only.	
6.7 Crank and conrod	Original Honda / Hoffmann / Chinese 390cc (64mm stroke) crankshaft can only be machined to fit big end bearing and clutch. Original Honda / Hoffmann / Chinese 390cc connecting rod can only be machined to fit big end bearing. No other machining allowed.	
6.8 Flywheel and cooling fan	Original standard 390cc Cast iron flywheel (pull start) or ring gear flywheel (electric start) no machining allowed and key to be fitted. Step key may be used to adjust timing. However a key must be fitted. Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed. Standard 390cc cooling fan to be fitted, no alterations allowed. No aluminum flywheel.	
6.9 Coil	Original standard 390cc coil and M6 bolts no machining allowed and original mounting points. (No UT2 Coils) No ground straps.	

6.10 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
6.11 Carburetor	Original Honda / Hoffmann / Chinese 390cc carburetor for this engine only. Butterfly size = 27mm; No adjustable main jets allowed, and no machining allowed. Complete choke must be fitted.
6.12 Isolator block	Only 1 original 16mm isolator block must be in position no machining allowed. Gaskets may be matched to carburetor and intake port. Pulse fitting may be fitted.
6.13 Cylinder head	Cylinder head combustion chamber must have a capacity of not less than 36cc (cc to be tested with fuel sample of kart) when plug is fitted only skimming allowed no welding. No porting or polishing of ports allowed. Original carburetor mounting points. No 460cc heads allowed.
6.14 Head gasket	Original Honda / Hoffmann / Chinese head gasket for this engine only. No handcrafted head gaskets allowed.
6.15 Camshaft	No limitation.
6.16 Balance shaft	Standard balance shaft to be fitted, no machining allowed.
6.17 Mass of racing unit	180 kg min. 170kg Ladies.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

7. 390cc Mods

7.1 Age 18 years and older Age at committee's discretion.

7.2 The engine (Honda/Hoffmann/Chinese / Briggs) 340-390cc specifications. This is a modified class.

7.3 Engine capacity	396cc max.
7.4 Engine casing	Honda / Hoffman / Chinese / Briggs 340-390cc.
7.5 Valves	Intake head size – Max 37mm, Exhaust head size – Max 32mm Aftermarket valves allowed, Machining allowed No limitation on valve springs. 1.2:1 ratio rocker,
7.6 Piston	Maximum 88.75mm No dome pistons May not protrude the block
7.7 Crank and conrod	No limitation Crank 64mm stroke
7.8 Flywheel and Cooling fan	Original standard 390cc cast iron flywheel (pull start) or ring gear flywheel (electric start) no machining allowed and no limitation on flywheel key. No Aluminum flywheel. Standard 390cc cooling fan to be fitted, no alterations allowed.
7.9 Coil	Original standard 390cc coil and no limitation to ignition timing.
7.10 Carburetor	Honda GX type carburetor only 27mm butterfly, Jetting allowed Machining allowed, No slide carb
7.11 Isolator block	Spacer allowed up to a maximum of 50mm between inlet port face and carburetor inner face. Pulse fitting may be fitted
7.12 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
7.13 Cylinder head	No limitation. Original carburetor mounting points.
7.14 Head gasket	No limitation
7.15 Camshaft	No limitation
7.16 Mass of racing unit	180 kg min.

***No engineering tolerance will be allowed.
Any changes not stipulated above are not permitted***

8. 425 Supermods

8.1 Age 18 years and older Age at committee's discretion.

8.2 The engine (Honda / Hoffmann / Briggs / Chinese) 340-420cc specifications. This is a Modified class.

8.3 Engine capacity	426cc max.
8.4 Engine casing	Honda / Hoffman / Chinese / Briggs 340-460cc.
8.5 Valves	No limitation
8.6 Piston	No limitation
8.7 Crank and con rod	No limitation
8.8 Flywheel and Cooling fan	No limitation Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed.
8.9 Coil	No limitation
8.10 Carburetor	No limitation to Honda / Hoffmann / Slide carburetor original mounting points.
8.11 Isolator block	No limitation to length, original mounting points
8.12 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
8.13 Cylinder head	No limitation. Original carburetor mounting points.
8.14 Head gasket	No limitation
8.15 Camshaft	No limitation
8.16 Mass of racing unit	190 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted

9. Outlaw Karts

9.1 Age 18 years and older Age at committee's discretion.

9.2 The engine (Honda / Hoffmann / Briggs / Chinese). This is a modified class.

- Karts must be fitted with an approved cage.
- Cage must be constructed out of steel with a minimum o.d. of 21mm x 2mm or 25mm x 1.6mm wall thickness (No stainless steel, chrome molly or aluminum allowed)
- Roll over bar to be fitted above driver.
- Drivers helmet not to exceed the top part of the cage when driver is in sitting position.
- Kart must be fitted with a midget look-a-like rear & front body kit.
- Kart must be fitted with a wing not exceeding 1200mm wide.
- Use own discretion on size of the wing sides.
- Wing sides must have a 45° bend at top and bottom.
- Front wing optional.
- Nerf bars must run to a minimum gap between front and rear tires. (Any metal allowed)
- Tires has a maximum size of 6" applicable to the sport.
- Kart must be fitted with a minimum of 4-point harness.
- Safety net "wall side" optional.
- Front brakes optional.
- Aluminum seat to be fitted.

9.3 Engine capacity	466cc max.
9.4 Engine casing	Honda / Hoffmann / Briggs / Chinese 340-460cc.
9.5 Valves	No limitation
9.6 Piston	No limitation
9.7 Crank and con rod	No limitation
9.8 Flywheel and Cooling fan	No limitation Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed.
9.9 Coil	No limitation
9.10 Carburetor	No limitation to Honda/Hoffmann / Briggs / Chinese carburetor or slide carb.
9.11 Isolator block	No limitation
9.12 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
9.13 Cylinder head	No limitation

9.14 Head gasket	No limitation
9.15 Camshaft	No limitation
9.16 Mass of racing unit	200 kg min.

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

10. Open Class

10.1 Age 21 years and older Age at committee's discretion.

- This is a modified class. You can do with the engine what you want.
- The DD2 125 automatic's karts are allowed. (Kart must start on its own – No push starts allowed)
- This Class will only race for the fun and will not have a championship.
- Tires has a maximum size of 6" applicable to the sport.
- Approval required from the class captains to participate in this class.

10.2 Engine capacity	60cc – 680cc
10.3 Engine casing	Honda / Hoffmann / Briggs / Chinese and 2 stroke allowed
10.4 Valves	No limitation
10.5 Piston	No limitation
10.6 Crank and con rod	No limitation
10.7 Flywheel and Cooling fan	No limitation Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed.
10.8 Coil	No limitation
10.9 Carburetor	No limitation.
10.10 Isolator block	No limitation
10.11 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
10.12 Cylinder head	No limitation
10.13 Head gasket	No limitation
10.14 Camshaft	No limitation
10.15 Mass of racing unit	No limitation

No engineering tolerance will be allowed.

Any changes not stipulated above are not permitted.

11. Beetles 680cc

Competitors over the age of 21 years old.

(Age restrictions are a guideline. An application can be sent to the committee at which the committee can overrule age restrictions based on Experience of the driver, Physical size of the driver and Reason for wanting to move up in class. The committee's decision is final)

Minimum weight - 225Kg with driver and race kit.

11.1 Engine maximum size	680cc
11.2 Engine type	Any General Purpose small plant V-Twin engine up to 680cc may be used
11.3 Cylinder head	Must stay original as per manufacturer spec Combustion.
11.4 Head gasket	Must stay original as per manufacturer spec Fibre or steel standard gasket only
11.5 Valves	Must stay original as per manufacturer spec
11.6 Valve springs	Must stay original as per manufacturer spec
11.7 Cotters and retainers	Must stay original as per manufacturer spec
11.8 Valve rockers	Must stay original as per manufacturer spec.
11.9 Pushrods	Must stay original as per manufacturer spec
11.10 Piston	Must stay original as per manufacturer spec (first oversize allowed)
11.11 Conrod	Must stay original as per manufacturer spec
11.12 Crankshaft	Must stay original as per manufacturer spec.
11.13 Flywheel	Must stay original as per manufacturer spec
11.14 Flywheel key	Must stay original as per manufacturer spec
11.15 Fan	Must stay original as per manufacturer spec
11.16 Coil	Must stay original as per manufacturer spec
11.17 Ignition timing	Must stay original as per manufacturer spec
11.18 Air cleaner and air cleaner intake	No limitation. Must have safety cable, chain or bracket attached to filter if loose item
11.19 Carburettor	Must stay original as per manufacturer spec
11.20 Isolator block	Must stay original as per manufacturer spec
11.21 Camshaft	Must stay original as per manufacturer spec.
11.22 Starter	Pull starter and electric starter allowed
12.23 Body and look	Kart to be fitted with a Beetle "look-alike" body kit

11.24 Nerf Bar	Nerf bar to run a minimum gap between front and rear tyres
11.25 Tyres	5" & 6" high wheels allowed
11.26 Brakes	Front and rear allowed

No engineering tolerance will be allowed.
Any changes not stipulated above are not permitted.

12. Ninja Karts

12.1 Age 5 to 14 years Age at committee's discretion.

12.2 The engine (Honda / Hoffmann / Chinese) must comply with the original 160cc / 200cc specifications. The following regulations apply.

12.3 SAFETY AND GENERAL

- Seat Belts must be a minimum of 4 points and mounted individually on the Chassis no loose end close to the chassis. Seat belts not to be mounted on the seat. Seat Belts must be mounted in a way with an offset to the chassis to prohibit the belts meeting the surface while racing.

12.4 ROLL CAGE AND BODY KIT

- The roll cage must be made from a minimum of 19 x 2mm tubular mild steel with corner gussets.
- Body kit consists out of the following: 1 x PVC original karting nose cone – please note that the “long track” nose cone is permitted. Nose cone must remain as per manufacturers spec. A skid plate manufactured from plastic with a rounded leading edge may be fitted below this nose cone and may not protrude forward more than 50mm when measured from the nose cone at any point.
- 1 x rear tail cone as per sprint car design (large old type and new small type up to 2024). This cone may only be modified to accommodate the exhaust exit and mounting points and may have no additional open holes. Grid type structures to fill the holes are not permitted. 2 x side bumper / side pods may be fibre glass.
- 1 x front bib as per SDB design. This bib may be cut to accommodate the steering wheel allowing sufficient clearance for the competitors hands. No other open holes are permitted. Grid type structures to fill the holes are not permitted.
- Cockpit side panels are permitted and may be manufactured from Aluminium, Fibre glass and ABS Plastic only. These panels must be fixed to the roll cage by means of T30 cable ties or quick remove clips provided the clip base is attached to the roll cage using purpose applied tags and not by drilling into and thereby weakening the roll cage. These cockpit sides must allow for peripheral vision level to the rear point of the helmet visor of the competitor seated in the cockpit in normal race conditions.
- Window Nets to be fitted, to both open sides of the cockpit. Net to be secured using T30 cable ties that can be ripped off in case of an accident.
- Clearance of at least 75 mm between the top of the child's helmet and the top of the roll cage (not the wing) in the normal sitting position is required.

- Competitors will be excluded immediately should any body part/engine part become partially detached or fall off completely without a discussion to determine the merits of such.

12.5 WINGS

- Wings are compulsory and are not adjustable.
- Maximum wing sizes are 650mm width x 620mm length.
- Minimum wing sizes are 550mm width x 520mm length.
- Maximum wing endplate sizes are 470mm height x 650mm length.
- Minimum wing endplate sizes are 320mm height x 550mm length.
- Wing and endplate designs within these parameters are free.
- Staggered height endplates are permitted.

12.6 SEAT

- The seat must be rigidly located on the chassis, it must be so designed as that the driver is securely located to resist movement when cornering or braking.
- Seat must be to be modified to support drivers Head.
- No low back rest Kart style seats permitted.

12.7 Engine capacity	166cc -211cc max.			
12.8 Engine casing	Honda /Hoffmann and (Chinese motors) 160cc / 200cc. (No Briggs)			
12.9 Valves and springs	Original Honda / Hoffmann /Chinese 160cc / 200cc valves and rockers for this engine only. Original Honda / Hoffmann / Chinese 160cc / 200cc. Max 34.4mm free length valve springs for this engine only. No machining allowed. Only single springs.			
	Diameters	Head (mm)	Stem (mm)	
	Intake valve	25 mm max.	5,318 mm -	5,48 mm
	Exhaust valve	24 mm max.	5,275 mm -	5,44 mm
12.10 Piston and rings	Honda / Hoffmann / Chinese pistons and rings for this engine only to a maximum of second oversize (70.5mm). No machining on piston allowed. Piston may not protrude above bore. Small plant pistons only.			
12.11 Crank and conrod				

	Original Honda / Hoffmann / Chinese 160cc / 200cc (Max 54mm stroke) crankshaft can only be machined to fit big end bearing and clutch. Original Honda / Hoffmann / Chinese 160cc / 200cc connecting rod can only be machined to fit big end bearing. No other machining allowed.
12.12 Flywheel and cooling fan	Original standard 160cc / 200cc cast iron flywheel (pull start) or ring gear flywheel (electric start) and key to be fitted. Step key allowed. Cast iron flywheel may be machined to fit ring gear. No other machining allowed. Charging magnets may be removed. Original or look alike GX160V aluminum flywheel allowed, No racing flywheels, no machining allowed. Standard 160cc / 200cc cooling fan to be fitted, no alterations allowed.
12.13 Coil	Original standard 160cc / 200cc coil and M6 bolts no machining allowed and original mounting points. No ground straps.
12.14 Air cleaner	Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
12.15 Carburetor	Original Honda / Hoffmann / Chinese 160cc / 200cc carburetor for this engine only. Butterfly size = Max 19mm; No adjustable main jets allowed, and no machining allowed. Choke must be fitted.
12.16 Isolator block	Max 8mm isolator block with Max 19mm center hole must be in position no machining allowed; Gaskets may be matched to carburetor and intake port. Air cleaner may be replaced and safety cable from air cleaner to motor to be fitted.
12.17 Cylinder head	Cylinder head combustion chamber must have a capacity of not less than 12cc (cc to be tested with fuel sample of kart) when plug is fitted only skimming allowed no welding. No porting or polishing of ports allowed. Original carburetor mounting points.
12.18 Head gasket	Original Honda / Hoffmann / Chinese head gasket for this engine only. No handcrafted head gaskets allowed.
12.19 Camshaft	No limitations
12.20 Mass of racing unit	125 kg min.

No engineering tolerance will be allowed.
Any changes not stipulated above are not permitted.