



Ninja Kart Specification 2026



1. **Definition:**
2. To provide children aged from 6 to 11 years of age (they must retire from the formula on the date of their 11th birthday) an entry into short circuit motor racing.
3. *For 2026 all Spedeworth (England based track) race bookings can only be made online via www.spedeworthtickets.co.uk For non-Spedeworth (England) e.g. HRP in Scotland 2025 bookings methods still apply. Visiting drivers to events must book-in via your licencing promotion. Subject to availability race bookings close at 4pm on the Thursday prior to the race date unless specified otherwise. Where an event is marked with either (A)/(B) a driver may only compete at one of those events. E.g. 28th March @ Ipswich – Points Round (A), 29th March @ Aldershot – Points Round (B) a driver may only compete at one of these two events.*
4. It is primarily a MSA go kart chassis based formula, but purpose built Ninja Kart chassis are allowed, Providing the chassis is constructed in accordance with MSA yearbook.
5. **Construction:-** It is required that the chassis is constructed from magnetic steel tubing, cross section free. The method of Welding/brazing is free but for all main chassis joins welding/brazing is obligatory - i.e. no clamping, sliding twisting members or torsional adjustments of any kind including bolt-in torsion bars are allowed. The use of any type of hydraulic or similar damping device for any purpose is specifically prohibited. Purpose built Ninja Kart's must be **constructed** using 28 mm or 32mm O/D tube with min wall thickness of 2mm, with symmetrical pivot/steering pick up points steelwork/components with no KPI adjustments. If Kart has KPI adjusters fitted they must be fully welded up. It is not permitted to run any off-set front or back. Karts will be monitored before the meetings for symmetrical /off-set, if any damage occurs during the meeting the scrutineers will check whenever possible and any faults found will have to be altered to the scrutineers discretion before allowed to race.
 No Exotic Materials to be used on Karts i.e. Carbon Fibre/Magnesium/Titanium.
 All fasteners used to retain the major components i.e. steering, engine, axle, seat, pedals, bumpers, etc must be Mild steel only. No stainless steel allowed.
 All nuts and bolts are not permitted to be lightened or drilled but maybe cut down flush to the nut.
6. The wheel lift on front wheels when the car is placed on full lock will be allowed a maximum tolerance of 5mm difference between each side. This can be achieved by using different size washers each side top or bottom on the pivot/steering bolts.

7. The floor pan **must be complete** in the driver's compartment, made out of alloy with min thickness 1.5 and max 2mm; a 50mm hole must be cut in the floor pan underneath the centre of the seat.
The floor pan can be extended (optional) from under the seat to the rear of the Kart to prevent debris/shale getting onto the chain and the braking system.
8. The Drivers lower body must be covered by the body panels (no open sides). The Left side v opening which is allowed for entry must be a minimum of 14" from the bottom of the chassis to the top of the Opening and must be covered the bar across must be 25mm o/d tube. All Body panels must be made of alloy with a min thickness of 1mm. The only holes allowed in the Kart cab area panels are the two to allow for tracking.
9. The driver's seat must be a full containment **type** and must be positioned centrally in the car with strict attention being paid to its correct fitment, as set out by the manufacturer. No part of the driver's seat must be below the bottom of the chassis
No Fibreglass seats allowed.
10. **Axles.** Axle carriers must be symmetrical both sides no off set and must **not** be adjustable, Axles have to be 30mm hollow or solid type, The maximum overall track of the rear axle must be no greater than 1320mm (52") measured from outside of tyre to outside of tyre. The rear axle alignment will be measured from the inner edge of the rear wheel rim to the edge of the chassis rail which must be equal on each side. Front Stub axles must be a Minimum of 10mm back from the outside of the wheel rim not the tyre, Hollow stub axles are not allowed, scrutineers are advised to reject any car that has them fitted. The Maximum overall Front wheel Track width must be no greater than 44" measured from outside of tyre to outside of tyre.
The Maximum wheel base allowed must be no more than 1050mm which will be measured from the centre of the rear axle to the centre of the front stub bolt, at the top of the stub.
*Nyloc Nuts **Must** be used on the front stubs. While they can be reused, their effectiveness decreases with each application as the nylon collar wears down, the Nuts/Nyloc must be monitored at all times and changed if needed.*
Small R clips are allowed.

30mm Axle retaining clamps may be used. Max **one** each side which **must** be Symmetrical.
These can be obtained at KKC Kart components.
30mm Axle collar, product code - AXCOL30. RRP price is £8.95. Plus vat
NK Discount price of - £6.71 per clamp. Plus vat

Overall, the rear axle collar locking ring plays a crucial role in maintaining the integrity/functionality and safety of the rear axle assembly on your kart.

11. Front bumper must be flat vertical surface type and cover front wheels to stop wheel contact No. quick Fix front Bumper Brackets allowed, the bumper brackets must be fully welded on to the chassis .The rear wheels must be protected from rear impact by a single hoop attached to the main chassis rail and roll cage and must cover the rear wheels.
The Rear Wheel Hoop protection Bars must Not Exceed past the 52" Track width.
12. The driver's feet (when pedals are depressed) MUST be a minimum of 12" (300mm) back from the front of the bumper.
13. **The Engine.** Must be positioned centrally in the car behind the drive axle plus or minus 50mm, the fuel cap on the engine unit will be deemed as the centre of the engine. The engine Clamping tubes must be no higher than 64mm above the main frame, measured from the underside of the Main frame to the top side of the clamping tube, you must use the standard Honda GX160 type mounting clamps and frame.
14. **The roll cage.** must be constructed in such a manner that the driver is protected from side and head impact, minimum size tubing in the roll cage is 25mm/o/d x 3.0mm and must consist of four posts two hoops joined together with 5 cross bars, with both the front braces running from the front upright bars of the roll cage down to the outer front part of the main chassis. The minimum height of the roll-cage must be 813mm (32") from the bottom of the chassis tube to the lowest point underneath the top of the roll cage tube, whilst maintaining a minimum of a 100mm (4") clearance between the top of the child's crash helmet and the top and/or any part of the roll-cage. The halo will no longer be factored into this measurement; the rollcage must be welded to the

main chassis. The Cross bars joining the roll cage are to be 25mm o/d x 3.0mm and fitted: one just above the rear pod, one at rear of roof. One at front of roof, one at steering column height, one at front bumper height. "Note"all welds must be complete, A diagonal safety bar 25mm o/d x 2.0mm must be fitted (off side) on side of roll cage Running from the steering support cross bar to terminate in front of the driver's Seat, the diagonal bar must be welded at both ends, as per roll cage rules. If the Rollcage has no left side V opening as per Rule No 8 which is for entry another diagonal Bar will have to be fitted the same as the right side. Side Apertures must remain completely open to allow for safe exit and access.

No sun visors /Name plates are allowed in the top of the front screen aperture.

Please be advised due to the children growing quickly to check the 4" clearance required between the top of the Childs helmet and the top of roll cage. This must be checked before commencement of any racing.

15. You must use the go kart plastic side pods and front bumper, in addition a roof wing and rear engine fibreglass pod with two steel protection rails Min size 19mm o/d must be used in the construction of your Ninja Kart. The only holes allowed in rear pod are for exhaust and pull cord, it's the scrutineer's discretion if the holes are a suitable size or too big there word is final. No Holes to be drilled in The Rear Pod protection Rails.
16. **The roof wing.** must be of similar design to a Sprint Car, and must be fitted directly above the drivers head, it must be hinged at the rear of the roof with a quick release closure mechanism fitted at the front, it must also have a secondary fixing for safety, it must measure a minimum 28" x 35 max "body, with side plates of 8.5" x 32maximum and 16" x 32"maximum. The side plates of the wing **MUST** not be below the roll cage at any point. The scrutineer will pass a rod through the roll cage, from front to rear and this must not touch any part of the wing. Full access to the roll cage tubing must be achieved. The rear of the wing/side plate must be no further forward of the centre of the rear axle and Max of 50mm to rear of Kart from centre of axle. Rear wing fixing brackets and hinges must be symmetrical. No additional wings or spoilers are allowed to be fitted.
17. Minimum weight of ready to race Ninja Kart must be 105 kg (without driver). Car must make the 105 kg weight On Slicks or Wets without refuelling after a race. (Regular weight checks will be carried out). Ballasting of **any type** is not permitted. Achieving the weight rule is the parent's responsibility.
18. Do not attempt the above construction if you have concerns as to your welding and construction ability, your child's safety will depend on your skills. Due to the scrutineer not being able to determine if a chassis has been repaired using a slip tube Technique or a deliberate attempt to provide the chassis with flex, such type of repairs is not Allowed, should the chassis be damaged to the extent it needs that type of repair then the chassis has come to the end of its use and needs replacing.

Safety Equipment

19. You must use a 5 point Ninja Kart type safety harness. Close attention to the manufactures Fitting and maintenance instructions must be observed at all times. The seat belts must be connected to bolts /eyelets and the straps must not be wrapped round the main chassis rails.
20. You must use either Hans Devise or a Neck Brace, round type braces only allowed, no u shaped braces are allowed, Fire retardant gloves, overalls and a balaclava must be worn, a head/ neck restraint System is highly recommended.
21. A high back full containment **type** seat must be fitted. The top headrest of the seat must be fully supported by a steel loop or bars to prevent any rearward collapse of the upper part of the seat—this may be adjustable using the minimum of 8mm bolts but must be secure at all times.
22. ***A Full-size race manufactured Window net must be fitted to the right-hand (fence side) and be level with the steering wheel.***
23. A Chain Guard must be fitted.
24. The use of quick release steering wheel hub is recommended.
25. A cut out switch must be fitted and clearly marked ON/OFF and be within easy reach by the driver.
26. **Drivers Safety Attire:** Please visit the ORCi website www.orci.co.uk for current safety equipment regulations.

27. Goggles/Visors:- Shatterproof goggles or a shatterproof visor MUST be worn with the helmet at all times.
28. Drivers must wear flame retardant racing overalls and these must be maintained in a clean and tidy condition and be clearly marked fire proof. N.B. If wet weather clothing is used this must be worn IN ADDITION TO AND NOT INSTEAD OF the regulation overall type clothing as described above.
29. A screen mesh with a max 2" square must be fitted, this may be cable tied in.
30. Mirrors are not allowed to be fitted
31. **TYRES.**

Details you require to order wets/slicks/ are as follows:

Name - KKC Kart Components.

Address – Whilton Mill Kart Shop, Whilton Mill Kart Circuit, Whilton Locks, Daventry, and Northamptonshire, NN11 2NH. 01327844320.

Slicks.

Only the Duro Highline HF-242 BI and B2 slick- tyre can be used, these must remain as manufactured and may not be altered in any form, tyre softener, substances or additives are NOT permitted.

Duro Highline Slick Tyre Set

Product code-DUROTIRESETNK

RRP £85.95 plus vat

NK price £77.36 plus vat

No price increase in 2026 as agreed with KKC

When ordering on line please use the product code.

Wets.

The only wet Tyres permitted are the Heidenau WH-1 full wet tyre set (White barcode).

These must remain as manufactured and may not be altered in any form, tyre softener, substances or additives are NOT permitted.

When the race is declared a “wet race” by officials, then and only may wet tyres be used.

Heidenau WH1 Ninja Kart Full Wet Tyre Set

Product code –HEID-NKWETSET

RRP. £173.plus VAT

NK price. £147.05 plus vat (per set)

NK price. £138.40 plus vat Min order of (2x sets)

No price increase in 2026 as agreed with KKC

When ordering on line please use the product code.

Please Note: Due to safety concerns.

When the race official declares it is a wet race ALL Karts must use wet tyres only, mixing Wets and slick tyres will not be allowed at any time during a wet race.

Karts must stay on wet tyres only when it is declared a wet race by the official and must not Change back to slick tyres until the race official tells them to change back to slicks.

No Buffing Allowed on slicks or Wets.

Due to the tyres changing pressure and size during racing when the tyre circumference is measured after racing the maximum tolerance allowed between the rear left tyre and rear right tyre is 10mm.

You may clean the tyres but you must NOT raise the kart off the ground and use the engine to drive the wheels in the pits at race meetings to clean the tyres as this has a potential to cause harm.

Rear wheels must be a minimum of 170mm deep, with both wheels being the same depth.

Front wheels must be a minimum of 120mm with both wheels being the same depth.

Measurement of the width of rims is taken from bead to bead.

No stagger is permitted under any circumstances, the o/d of the left and right must be the same.

32. **Grades & Points**, All promotions run a national monthly grading system, (white, yellow, blue, red & Champions). All drivers must display their current grade; this must be with a 50mm wide x500mm long stripe running along the front edge of their roof wing, champions may fit flashing **Amber** Lights.

Correct Grade stripe Must be displayed at start of all meetings and applies to all grades.

33. The highest grade achieved no matter what promotion you are registered with you have to start at highest grade all over.

34. **RACE NUMBERS:**

Must be minimum of 6" high and must be black on white background.

35. **BRAKES.**

A single brake is required on the rear axle

The braking system must remain as manufactured, No modifications or alterations to the Brake Calliper are allowed.

36. **ENGINES.**

The only engine eligible for use is the Honda GX160 supplied in sealed form. All new new engines must now be purchased direct from: Spedeworth Motorsport

Spedeworth House

Hollybush Industrial park

Hollybush Lane

Aldershot

GU112PX

Contact Details: 01252322920.

All ex RPM Ninja Kart engines that have not been checked and fully sealed by Spedeworth must be returned to Spedeworth office, these engines will then be checked and completely resealed so they comply with the **2026** current Rules.

No RPM engine will be allowed to race in **2026** unless they have been checked and fully resealed by Spedeworth.

Any maintenance required to any engine in **2026** the engine must be returned to Spedeworth.

37. You may change the engine oil but you must use the correct amount of oil which will be a minimum of 400ml when checked. Replace the STD as manufactured spark plug with the correct type and make only NGK BPR6ES, the spark plug gap will be limited to 1mm. Replace the paper air filter/foam with a standard Honda paper air filter/foam. (Honda GX160 pattern filters/foam may be used), the rubber seal under the air filter must not be removed.

It is the parents' responsibility to ensure your scrutineer is aware of any changes, as in the event of an engine check, the scrutineer is advised to reject any engine that bears the incorrect seal number to that assigned to that engine or driver.

It is a condition of your entry you agree to allow the Promoter to swap your engine to that of another competitor for the duration of the meeting.

38. Max number of engines is two which the engine numbers and seal numbers must be logged in the front of the driver's licence/logbook by the parents. Scrutineers are advised to note the seal number in the drivers log book corresponds to the one being used at all meetings when scrutineering.

39. After scrutineering at all meetings before changing/removal of the engine you must notify the scrutineer who will take the seal numbers of the engine removed and the new engine fitted in case of any further checks are necessary.

Policing of Ninja Kart Engines 2026. Max of 2x Engines.

Parents

Must write the Engine Number (seven numbers) & Main Red seal Number in front of the Childs licence before the start of any racing. Any second engine when used must also be written in the front of the licence.

Scrutineers.

At all meetings must make a note of the Engine Number (seven Numbers) & the Main Red Seal

Number for all drivers, the date and track venue, and forward on to Alan (Record Holder) so they can be put on file.

Please Note:

The 2x engine rule runs from world final to world final which is all on file to date.

Parents Must transfer there engine numbers and red seal numbers into their new 2026 licence.

Random engine checks and all seal Numbers will be carried out in **2026**.

40. Complaints, Protests & Appeals.

Where a parent wishes to complain or protest about the preparation of a Ninja Kart or a violation of specification, such complaint must be delivered in person to the Scrutineer of the Meeting together with the special protest fee of £100 for each item of complaint, within two minutes of the last Ninja Kart Race.

This will cause the the offending Ninja Kart to be subject to immediate further checks by the Scrutineer on the specific item (s) complained of.

In cases where the specification protest is valid the fee will be returned in full to the complaining parent, and the offending driver will be penalised as allowed by the regulations.

41. Axle and Drive Sprocket. Only a 70 tooth 219 pitch rear sprocket and 20 tooth 219 pitch clutch sprocket may be used using a 219 pitch Chain.

42. Clutch. Two clutches are allowed to be used: Noram BE, & Maxtorque SS. Both with STD regular 46 gram x 6 shoes with stainless steel Plain spring.

Clutch must Tick 1900- 2000 and engage at 2200 -2400 rpm when checked by the scrutineers.

Clutch must remain standard as manufactured

KKC Kart Components. 01327844320

Max Torque 20T Racing Clutch

Product Code-MT20219NK

RRP £110 plus vat

NK price £82.50 Plus vat

No price increase in 2026 as agreed with KKC

When ordering on line please use the product code.

43. Fuel. No additives of any kind may be used; petrol purchased at the roadside pump may only be used. The freezing of fuel is not allowed, random checks will be done at race meetings.

You may not alter the fuel tank in any way.

You must only use the large Honda type chrome fuel cap which is supplied with the engine with two breather holes, the breather holes must not be drilled out or enlarged.

You must use the approved Ninja kart petrol tank cover which is available only from Miller Motorsport, no other type is permitted.

44. The main jet and Emulsion tube fitted in the engine :

Emulsion tube: PN 16166-Z4M-922

Main jet: 0.695

45. The measurement for the fitting of the transponder is: Min of 28" from the centre of the front stub bolt (top) to the centre of the transponder bracket.

The transponder can be fitted on the inside or outside of the Kart. The use of race receivers and transponders are compulsory from January 2020 at all Tracks.

Go Pros. Will be allowed in 2026. But Must be used for personal use only.

46. IE. Unless these rules state you can do it, you CANNOT DO IT.

47. As from 1ST January 2021 all new built Ninja Karts will have to be inspected and passed by the Scruitineers to confirm they comply to the latest version of the Ninja Kart Rules available via www.spedeworth.co.uk and a one year agreement has to be agreed between Spedeworth and any Ninja Kart Manufacturer before being allowed to race.

The only registered Ninja Kart builders/Manufacturers are:

1. Hardie Motorsport.

2. LJN Motorsport.
3. HCD
Other Ninja Kart builders/Manufacturers can apply in **2026** through speedworth Motorsport to be registered.
47. **Please Note:**
It is the parent's responsibility at all times that their Childs Ninja Kart conforms to the current **2026** specs/rules.
48. **Please Note:**
*Due to the time restraints and long delays when gridding the Ninja Karts up at meetings, a grid Sheet will be supplied and it will be the parents responsibility to grid there kart in the correct Position in the pit area before the start of all races.
When the karts go onto the track any Kart that is not in the correct grid position will have to start at the back of the grid. (No Exceptions)*
49. Contacts: Alan Rouse: 07775668211. Chief Scrutineer (Spedeworth).

**For further information contact:
Spedeworth House**

Hollybush Industrial Park

Hollybush Lane

Aldershot

GU11 2PX

Tel: 01252 322 920

e-mail: info@spedeworth.co.uk

REVISED RULES FOR 2026 IN BOLD/ITALIC **RED PRINT**

ITEMS MARKED ~~STRIKETHROUGH~~ ARE NO LONGER ALLOWED

[2026 Ninja Karts Technical Specifications, Issue 1, Dated 8th January 2026.](#)