

Young Guns
390
Junior Sprints
Racing Club

***2009 Racing Rules
and Regulations***

Section 1

SPECIFICATIONS

The following specifications and rules will be enforced by the YG390 Technical/Safety Committee.

All cars must be tech/safety inspected and approved before being permitted on the track.

Item 1. Technical/Safety inspections will stop at the beginning of warm ups. Inspections after that are subject to the availability of YG390 Tech/Safety Committee Members. No car will be allowed on the track without a clearly legible current inspection sticker on the car.

Item 2. Driver's helmet MUST be a Snell 2000 or higher rating, full face coverage type and have the readable Snell sticker inside helmet. In competition, face shield use is mandatory.

Item 3. All drivers MUST wear a name brand flame retardant driving suit, gloves, shoes and neck collar. Double layer is highly recommended. A flame retardant head sock MUST also be worn and be tucked beneath the collar of the driving suit. If using a Head/Neck Restraining Device, then a flame retardant helmet skirt must be worn. No visible skin should be showing anywhere on the driver during competition.

Item 4. Safety belts, lap, shoulder and antisubmarine belts MUST be in good condition, with readable date, not older than 4 years and securely attached to the vehicle. Seat belts must be wrapped around the lower frame rail at point of attachment. To prevent seat collapse in high impact crashes, the shoulder harness will be secured below the drivers shoulders and properly routed over a crossbar located between the frame roll cage uprights and just below the driver's shoulders.

Item 5. Padding on the roll cage bracing or padded head rest behind the drivers's head is mandatory. Arm restraints MUST be worn and should be adjusted to keep the driver's hand below the top of the roll cage.

Item 6. Only #40, 41 or 420 drive chain from jackshaft to rear sprocket. Chain guards must be installed on all cars where chains are exposed to the driver.

Item 7. All nuts, bolts and component parts of each cars suspension and steering system must be secured and have lock nuts, lock washers, cotter keys, thread locking compound or be safety wired. An "R" or similar clip is recommended to be used at the ends of the splined axles.

Item 8. The car must be equipped with positive (working) on-off kill switch and a fuel shut off valve. The switches and the valve must be clearly labeled, ON/OFF, within easy reach of the driver while in a racing position and visible to the track safety crew.

Item 9. No electric fuel pumps. No fuel tanks permitted in the cockpit. All outside mounted fuel tanks must be protected by nerf bars or rear bumper. (Also see Item 14)

Item 10. There must be an approved firewall between the driver and the engine. Sheet metal, aluminum, fiberglass, or high impact plastic may be used.

Item 11. Roll cage must be a minimum of 1-1/2 inches above the driver's helmet with the driver seated upright in the car.

Item 12. Cars must be equipped with a roll cage of sufficient strength to support the weight of the car and driver. Roll cage must have gussets at the intersecting bars to the uprights. Roll cages shall be made of chromoly steel or material equivalent in strength. A 1/8 inch inspection hole shall be drilled in same for measurement of the material used. The recommended minimum roll cage material and size for all cars will be 1 inch diameter and .065 thickness. The roll cage must have sufficient fore and aft bracing. Bends must have at least 3 inch radius. No square or pointed corners permitted. Structural integrity of the car is the responsibility of the owner.

Item 13. All cars must be equipped with nerf bars firmly attached to the car using bolts and lock nuts only, no "R" clips. Bars must extend to center tread of tire but NOT beyond the outside edge of the tire without the driver in car. Nerf Bars must be axle height to the body. No parts of the car will be allowed to extend beyond the outside edge of the tires. A mommy bar on one or both sides of the car is optional, but highly recommended for safety.

Item 14. Cars must have bumpers extending forward of the front and behind the rear tires and secured using bolts and lock nuts only, no "R" clips. Bumpers cannot extend beyond the inside dimension between the tires. No sharp corners to hook or damage another car. Cars using a tail fuel tank must have an acceptable, reinforced, bumper installation or a fuel bladder.

Item 15. Cars must have a floor pan extending from the front of the driver's seat to a place forward of the driver's feet. Floor pans may be installed above or below the frame rails, minimum thickness .050. They must be secured using metal fasteners. No wire or plastic wire ties.

Item 16. Batteries that are not sealed or gel batteries must be encased in a battery box and securely attached to the car. Battery must be mounted so not to be smashed by front axle in event of a crash.

Item 17. No wings of any kind are permitted.

Item 18. Brakes must be of sufficient strength so as to slide the wheels and stop the car while in motion on the track. You must have braided steel brake line between brake caliper and master cylinder. Brake checks will be done at the discretion of the Race Director. If brakes fail an inspection, you will not be permitted to compete until rechecked by a YG390 Tech Inspector.

Item 19. Tires: Only Hoosier Tires can be run on the car with 10 inch wheels. Any tire pressure can be used.

Front Tires: Any compound

Right Rear - D12 or harder

Left Rear - RD 12 or harder

Tread: Minimum, center to center - 36 inches, Maximum Rear Tire(s): Overall width (measured outside to outside) - 63 inches

Item 20. Wheel Base: Measured center of front axle to center of rear axle. Minimum - 53 inches, Maximum - 70 inches

Item 21. Wheels and Hubs: Ten inch wheel diameter combinations only. Right front and right rear wheels used should be those designed for racing. Right rear, one piece style center wheel section must have a thickness of at least .300 inches. No 3-lug hubs. Broken wheels or hubs occurring during practice or competition will be examined immediately to determine legality and violaters will be suspended at the Board of Directors disgretion.

Item 22. No car will be allowed to compete that requires dismantling any part thereof to enter or leave the cockpit with the exception of the steering wheel.

Item 23. The steering wheel must be attached with a quick release hub. Hubs to have push-in, non-removable, metal release pin or Troyer type. No bolts or nuts.

Item 24. All cars must have complete bodies. All car body sections, bumpers and nerf bars must be in place at the start of all races. Portions of the car bodies such as nose, tail or side section may be left open during cooling. Amount of opening is subject to approval by the Technical/Safety Commitee. Air scoops must have no sharp edges. Cars must be sprint car style appearing.

Item 25. All cars must be of aluminum, metal, fiberglass or high impact plastic and painted in attractive paint schemes. Except for tail tanks, no body work may extend more than two inches beyond the rear main roll cage upright. Body work on both sides of the drivers' cockpit must be constructed in such a manner so as to leave at least a ten inch vertical opening on both sides to allow emergency personnel to gain access to the driver.

Item 26. All cars must have legible numbers on both sides of the tail and on the front of the body. No holographic numbers.

Item 27. The number 1 is reserved for the Young Guns Point Champion for the said year. If the Point Champion does not use the number 1, it is held in reserve for the next year's champion.

Item 28. Seats: Full containment or halo seats are highly recommended to protect the driver during high impact crashes.

Item 29. No driver, car owner or crew member are permitted to use one or two way radios, radio ear plugs or any kind of radio attached to the helmet.

Item 30. Any shock absorbers are acceptable. Maximum of 2 cockpit adjustable mechanisms in car.

Item 31. Pedals must be designed not so as to trap the driver's feet in any way.

Item 32. No electronic or computerized wheel spin/traction control devices are permitted.

Item 33. Any type of air filter may be used. No forced induction.

Item 34. Spark Plugs can be any uncut type. No shortening or cutting of spark plugs allowed. Washer removal for head temperature gauge is permitted.

Item 35. Any ideas, input, comments or suggestions pertaining to the YG390 Organization or any ideas or suggestions in regards to the engine, please feel free to put that down in thorough written form and submit it to a Board Member. The Board of Directors will review and let you know their response..

Section 2

ENGINE

Item 1. All and any YG 390 Engine Packages MUST be supplied by JSP, Inc. to compete in any Young Guns 390 Junior Sprint Event. All driveline/jackshaft components with the Engine Package must be present during competition.

Engine Package Includes:

- Sealed Honda GX 390 engine
- 34mm Mikuni carburetor, converted to run Methanol
- Jackshaft with gears and bearing carriers. Two SKF Part #FY3/4TF or #FY3/4RM & One #SY3/4 TF or #SY3/4RM
- 11, 12, 13, 14, 15 tooth counter shaft sprockets for #40 chain
- 3/4" X 12 3/4" counter shaft with 3/16" key way, no shorter than 11",
Three sprockets on the shaft
- 4" minimum of 3/16" key
- Minimum of three 3/4" locking collars
- Two 3/4" with 3/16" keyway locking collar
- Two heavy duty 3/4" spring clip
- 30 tooth sprocket with #35 chain

Item 2. Any engine or jackshaft part must be supplied or approved in writing by JSP, Inc.

Item 3. The motor plate must be manufactured by JSP, Inc. Two motor mount tethers will also be supplied by JSP, Inc. which must be tethered to the motor mounts.

Item 4. Seals: Seals at case, head and manifold MUST NOT be removed.

Item 5. Exhaust System must utilize a WKA 1-5/16" unaltered ID muffler. You must run a spec exhaust pipe supplied by JSP. Inc.

Item 6. Carburetor: No alterations or polishing to carburetor body. May use any jet size in all jets. No power jets may be added.

Item 7. Manifold is not to be removed from head. Carb must be connected with hose and clamps supplied by JSP, Inc. Manifold will be anodized to reveal any tampering or polishing. If anodizing is missing from inside of manifold, fines will be enforced under Section 5, Suspensions/Penalties - Engine.

Item 8. Clutch must be a Horstman Red Hawk with a 15 tooth sprocket. Part #560005 15T#35 Drum. Only Horstman stall speed springs allowed, Part #464900 (Red), or #465000 (Blk), or #514200 (Blue).

Item 9. Flywheel - No changes, alterations or removal of the flywheel that is supplied by JSP, Inc.

Item 10. Rocker Arms, Rockers Posts, and Push Rod Guide Plate may not be changed and they must be kept in the configuration that JSP, Inc. supplied.

Item 11. Oil - Absolutely no additives of any kind may be mixed into the oil.

Item 12. Ignition - You MUST use a 5 HP Briggs and Stratton or equivalent coil, part #397358, also known as the Raptor Coil.

Item 13. NO REMOVAL OF ANY METAL WITHIN THE ENGINE OR ALTER ANY PART OF THE ENGINE TO ENHANCE PERFORMANCE OTHER THAN RETARDING OR ADVANCING TIMING OF THE FLYWHEEL AND JETTING THE CARBURATOR.

Item 14. Engine maintenance/servicing on all YG390 engines MUST be performed by JSP, Inc. with the exception of valve springs, oil change, spring retainers and tappets

Section 3

CAR WEIGHT

Item 1. The minimum car weight, with driver, should be 550 lbs. Any unsafe lightening of components, to make any part of the car lighter, will be solely up to the YG390 Technical/Safety Committee's discretion. Failure to meet weight specifications at the completion of an event will result in disqualification.

Section 4

FUEL

Item 1. Use ONLY methanol fuel. We recommend 1 oz top lube/gallon be added to the methanol and be kept in a sealed bottle. No other additives whatsoever can be added other than the top lube.

Item 2. Fuel will be checked randomly. The method used for whether fuel is illegal or has additional additives will be that of the currently available professional fuel testing equipment done at the track by a YG390 Technical/Safety Committee Member. Fuel that is being tested will be taken from the tail tank or from fuel line before carburetor.

Item 3. Any car owner or driver competing in a YG390 event must agree to abide by the findings of the fuel test results.

Section 5

SUSPENSIONS/PENALTIES

***All inspections will be performed by a YG390 Technical/Safety Committee Member.**

ENGINE

Item 1. If engine seals are removed, opened, replaced, broken or show any signs of tampering, the engine WILL be confiscated by the YG390 Technical/Safety Committee and MUST be checked for legality. Failure to cooperate with confiscated engine will deem immediate disqualification and indefinite suspension.

Item 2. If any engine parts appears to be tampered with or altered, that part MUST be stamped or marked and confiscated for further teching by JSP, Inc. Failure to give up confiscated engine part will deem immediate disqualification and indefinite suspension. The member who's engine is being teched has the right to attend the tech inspection which will be held at JSP, Inc. in Sellersville, PA. The Technical/Safety Committee and JSP, Inc. will decide on the tech inspection date and time and notify that member.

Penalties for Illegal Engine

First Offense:

- **\$150.00 re-sealing fee, payable to JSP, Inc., plus cost of parts needed**
- **\$250.00 fine, payable to Young Guns 390 Junior Sprints**
- **Lose of Points for the year**
- **4 weeks suspension from any YG390 events for car owner and driver**

Second Offense:

- **\$250.00 re-sealing fee, payable to JSP, Inc., plus cost of parts needed. Engine must come completely apart.**
- **\$500.00 fine, payable to Young Guns 390 Junior Sprints**
- **Lose of Points for the year**
- **8 week suspension from any YG390 events for car owner and driver**

Third Offense: Lifetime suspension from any YG390 events for car owner and driver

Item 3. If engine techs illegal with no sign of tampering seen, but is due to wear and tear, no fines or penalties will be given or loss of points. Owner must have motor repaired by JSP Inc before competing in any more Young Guns 390 events.

All fines must be paid and suspension be fulfilled in full before being allowed in the pit area & to compete in any YG390 Event.

Section 6

SUSPENSIONS/PENALTIES

FUEL

Item 1. During the testing of the car's fuel system, an inspection will also be made of the car's fuel system. If fuel is found illegal or if you refuse the YG 390 Technical Committee to be allowed to check your fuel, you will be disqualified from that nights event, \$100.00 fine will be applied and a 2 week suspension from any YG390 events for driver and car owner along with lose of points for that nights event. All fines must be paid in full before competition in any other YG390 event can occur.

Section 7

TECHNICAL INSPECTIONS

Item 1. Car and engine inspections for legality maybe made at random by a YG390 Technical/Safety Committee Member. Technical inspections will occur within one (1) hour of the conclusion of the nights racing events, first come, first serve. Cars will be brought to a designated inspection area immediately from the track. See Section 5, ENGINE, Item #2, for any further teching. See Section 5, ENGINE for Penalties for Illegal Engine.

Item 2. Car and engine inspections may also be called for by a protest from a competing team by posting the appropriate protest fee of \$100.00 to any YG390 Board Member. If an engine protest finds the protested party illegal, the protester will have the fee refunded. If the protested party is found to be legal, the protest fee will be payable to the protested party.

Item 3. No protest involving the YG390 Technical /Safety Committee will be honored.

Item 4. All Technical/Safety Commitee decisions are final.

Section 8

CHAMPIONSHIP POINTS

Item 1: Only Young Guns 390 Members will receive championship points. Must take the green flag on a Feature Race to receive championship points. DNF's will be included.

Item 2: During Speedweek, a seperate point system will be used to determine the winner. Heats and Features will be included to receive Speedweek points. Must take the green flag on a Feature Race to receive Speedweek points.

Item 3: Drop Week - All YG390 competitors are required to drop 2 points nights, of their choice, per racing season. If a competitor voluntarily misses an event, they may drop that nights points. When your 2 drop nights are chosen, they must be handed into the Club Secretary, in writing, by the last race of the season, otherwise, the Club Secretary will pick the two lowest points nights and drop them.

Regular Race Points consist as follows:

<u>Position</u>	<u>Points</u>
1	50
2	45
3	40
4	35
5	30
6	28
7	26
8	24
9	22
10	20
11	18
12	16
13	14
14	12
15	10
16	8
17	6
18	4

Section 9

RACING

Item 1: 5 (five) cars designates a race with an 18 car limit in any given race.

Item 2: Race will consist of Heats and Features with the car owner or driver picking a number upon sign-ins. The lowest number picked lines up on the pole for the Heat Race with consecutive lower numbers following. Winner of the Heat will start on the pole for the Feature, with others to line up as they finish the Heat.

Item 3: Host Track will write and post the lineup. Any discrepancies or questions in regards to a lineup in either Heat or Features will have to be discussed politely with the Host Tracks Race Director not a YG390 Board of Directors.

Item 4: Host Track will be running the race with their own race rules. Any discrepancies or questions in regards to a "call" during the race will have to be discussed politely with the Host Tracks Race Director not a YG390 Board of Directors.

Item 5: It is the YG390 Organization's Goal to have their drivers drive a Safe, Clean and Competitive race. Hazardous or reckless driving and blocking will not be tolerated and the car owner along with the driver may be approached by a YG390 Board of Director to discuss this situation.

Section 10

SERIES SPONSORS

Item 1: All Young Guns 390 competitors must display the racing season's Series Sponsors name and logo clearly on two sides of their car. Series Sponsors will be made known at the beginning of the racing season.

Section 11

CODE OF CONDUCT

Item 1. Any individual found guilty of corrupt practices or nonconformance with the Rules, Regulation's By-Laws or Articles of Incorporation of this Club, shall be liable to reprimand, fine up to \$250.00, suspension or expulsion for up to one (1) year or more as the Board of Directors deems proper. Corrupt practices include, but are not limited to: giving, accepting or offering a bribe to drivers, owners or Officials involved in YG390 events; conspiring or committing fraudulent practice; guilty of unfair practices; and altering technical specifications after a vehicle has been approved by the YG390 Technical/Safety Committee. Also, if you are identified making vocal or written comments detrimental to the Club in a public forum, i.e. The Internet, you will be subject to disciplinary action as the Board of Directors deems proper. Anyone doing so may subject the car that they are associated with, with disqualification.

Item 2. Conduct detrimental to racing and unsportsmanlike conduct including, but not limited to, fighting and foul language in front of spectators, will result in a minimum \$50.00 fine, depending on the situation and suspension from competition for a period deemed appropriate by the Board of Directors. All fines and suspensions must be fulfilled before being allowed in the pit area and to compete in any YG 390 Event.

Item 3. Car Owners are responsible for their driver, family members and their crew members.

Section 12

AGE RESTRICTIONS

Item 1. All YG390 drivers must be between the ages of 9-15 years of age with 3 years racing experience in either a Go Kart or Quarter Midget Race Car.

Item 2. Anyone seeking membership under the age of 9 years or over the age of 15 years, will have to be considered and approved by the Board of Directors.

