

Rules and Proposed Rule Changes – October 30, 2019

1 Fuel and Fuel Systems

A Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: XII. FUELS AND FUEL SYSTEMS E. ONLY NATURAL ASPIRATED FUEL SYSTEMS ALLOWED (CARBURATOR)

State Proposed Change: E. ONLY NATURAL ASPIRATED FUEL SYSTEMS ALLOWED

B Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: XII. FUELS AND FUEL SYSTEMS C. Exterior fuel tanks will be permitted and are to be made of high impact material only

State Proposed Change: C. Exterior fuel tanks will be permitted and are to be made of high impact material only. FOR 600 CARS, BLADDER TANK IS MANDATORY.

2 Class Structure – Changes

A Submitted by: Dick Francis Date: 9/29/19 **FAILED**

State Present Rule: 270 CLASS

State Proposed Change: Open up the 270/2 Stroke class to allow 500 cc 2/stroke single cylinder motor, any bore & stroke combination to a maximum of 500 cc.

B-1 Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: 600 Sportsman Class

State Proposed Change: ELIMINATE 600 Sportsman Class. Have 600 Restricted class. 10-18 years old.

See U6SA Restricted Rules outlined below.



2020 Rules

1) Terms and conditions

- a) If a change or modification to the stock engine or its parts is not included in these rules then the modification is considered legal.
- b) The word "Stock" means unmodified factory original parts or components.

2) Overall Engine

- a) No limited production race motors allowed. Must be a production motorcycle engine, 4 cylinders, 4 stroke
- b) No titanium anywhere in or on the engine, unless it comes stock from manufacturer of engine on the production bike or used as bolts in aftermarket rods.
- c) Must have engine, clutch, and transmission all in one unit
- d) Must be Chain Drive

3) Bore and stroke

- a) 600cc Maximum displacement for an engine model that was new in 2006 or newer. Older engines maximum displacement is 637cc. Engine model is defined as a manufacturer redesign of overall engine. See Specification list.
- b) No strokers or de-stroked engines

4) Head and cams

- a) NO PORTING or deporting of intake or exhaust runners.
 - i) Valve jobs, valve grinding, valve seating, valve seal modification and valve seat cutting are allowed.
 - ii) Valve seat inserts may be reworked or replaced with any seat of original dimensions. Any dimensional thickness of the stock inserts may not be increased. Valve seats can be ground with multiple angles. Blending of the valve seat into the head is permitted but cannot extend more than ¼" into the aluminum head measured from where the seat meets the head.
- b) OEM Head only.
- c) Cam may not have a higher lift than the stock factory cam. (duration is open)
- d) Valves can not be larger in diameter than factory stock valves.

5) Bottom End

- a) No machining to remove weight from the crank (balancing of crank is ok) (no after-market cranks) (no lightweight cranks) No polishing or coatings of any kind
- b) No aluminum connecting rods.
- c) No dry sump systems are allowed unless it comes from the motorcycle manufacturer as original equipment.

6) Clutch/Transmission

- a) No removal of clutch.
- b) Clutch must remain operational

- c) No modification to the stock transmission gears, no close-ratio gears or nonstandard gear-ratios. All gears must remain in transmission, no removing any gears. No polishing or coatings of any kind

7) Ignition

No aftermarket ECU's, stock appearing ECU only. ECU must be a production ECU that was originally supplied by the same manufacturer as the engine. Racing ECU's may be used, as long as they were originally supplied by the same manufacturer as the engine. Ex: Honda motorcycle engines must run ECU's that were supplied by Honda on their motorcycle engines. Reflashing of ECU and factory race ECU's are allowed. Rev limit for all 600cc (nothing larger than 600cc) engines is 16,100 rpms. Rev limit for all 636cc engines is 14,800 rpms. U6SA specified Rev Limit must remain intact at all times (no switched or gear specific limiters). If a computer is hooked up to check the ECU it must be set to U6SA specified rpm's, no tolerance. See specifications list for RPM limits.

- a) All cars must have the PA standard connector for the track to check engine rpm rev limit. These are available from the chassis manufactures and engine builders, and at the track. All cars must leave intact the rpm wire coming from the ECU.
- b) No aftermarket coils
- c) No gear position sensor may be used. The sensor may be in place on the engine, but can not have any wires connected to it. Gear position wire from ECU may not be switchable.
- d) No traction control device.
- e) No more than one ECU box present in or on car.
- f) A 50 rpm over rev tolerance for the purpose of tech inspection is acceptable. (Note: this does not mean you can turn up the rpms in any ECU by any amount)
- g) Switchable wires for changing ignition maps, fuel maps, or rev limits must be contained and secured in the wiring harness. (the wires must be taped up, not visible, and unable to be switched in any way)

8) Air Induction system

- a) No mechanically forced induction (turbo charging, supercharging)
- b) Any carburetors may be used on any engine, regardless of year of engine.
 - i) Note: Switching to carburetors on engines that came with fuel injection usually increases the rev limiter due to the removal of the injectors as the ECU cuts fuel to limit rpm's before it cuts the ignition. A reflash of the ECU will be required if using carburetors in order to comply with the rev limit rule 7. a)
- c) If the engine did not come from the factory with fuel injection, fuel injection may not be used.

9) Exhaust

- a) A muffler must be used with the exhaust system that will keep noise levels within individual track limits.

10) Charging system

- a) No removing the charging system, it must remain in complete working order, no factory racing charging systems.

11) Self Starting

- a) The engine must self-start at the beginning of the event. If it does not self-start, the car may be pushed off and must start at the rear of the event as the penalty.

12) Fuel

- a) No fuels other than alcohol. Non flammable top lube only, no exotic fuel additives, no oxidizers, no fuel enhancer top lube.
- b) Fuel tanks must contain a bladder. A fuel tank with a bladder is further defined as a plastic outer shell with a rubber inner container.

13) Minimum weight

- a) Minimum weight at all times is 700 pounds for the PA600R class (car and driver). If weight is added it must be firmly bolted in place.

14) Transponder Location

- a) Transponder location is 21" from center of front axle towards rear axle and 6" from the bottom frame rail.

15) King Racing Products brand restrictor plates are mandatory on all engines

- a) Hyper Racing and 600cc Performance will carry the King Restrictor plates. Other suppliers will be listed as they become available.

16) Fuel Injection

- a) Stock throttle bodies only, no aftermarket throttle bodies.

17) Top and Nose wing

- a) 12 square ft. max, Maximum dimension of each side panel is 54-1/4" x 24-1/4". Nose wing 18" x 32" max.

18) Age and Driver Restrictions

- a) 10-18 years of age. If your 19th birthday falls during the racing season (March-October) you cannot compete in the restricted class after your birthday.
- b) If you compete in the "Open 600" division twice in any season you cannot compete in the restricted class.

19) No Cockpit Adjustments of any Kind.

20) Penalty for rules violation

- a) 1st violation the driver and car are suspended for 2 races. 2nd violation – 6 race suspension, 3rd violation – indefinite suspension. Case would be presented to U6SA director and chief steward of 600 Restricted class for determination. Penalties do not apply to weight, transponder, or RPM violations.

21) Hans, Hutchinson, or similar device is mandatory

22) Full containment seat is mandatory

23) Seat Mounting

- a) No more than 2" of spacer material may be used to raise the seat. If the seats needs to be raised more than 2", the frame seat bar tube must be raised. Adjustable seat height mechanisms may be used if they are properly designed.
- b) The shoulder belt tube (the frame bar behind the seat used to prevent forward movement of the shoulder belts) must be located no lower than 3" below the drivers shoulders and no more than 1/2" above.
- c) There needs to be a minimum of 3" of head clearance between the top of the drivers head with the helmet on and the top of the frame when a straight edge is placed across the cage members directly above the head. The driver must be seated in the car in the normal racing position (no crouching).

C Submitted by: Dennis Cummings 9/30/19

FAILED

State Present Rule: NONE

State Proposed Change: In order for a class to be considered valid, it must have a minimum car count of 4 cars by the 4th week of the racing season and maintain that count for the entire racing season. Failure to meet this count will result in the class being dropped.

D Submitted by: Greg Fraser Date: 9/30/19

FAILED

Eliminate “bubble” ages from classes. Ex: 5-8, 8-10, 10-12, etc.

Change to: 5-7, 8-10, 11-13, etc.

3 Tires

A Submitted by: Danny Knoll Jr Date: 9/9/19

FAILED

State Present Rule: NO Rule

State Proposed Change: Require spec tire US6A Hoosier on right rear of 600 classes. Saves multiple tires and wheels, keeps competition close.

B Submitted by: John Singer Date: 9/30/19

FAILED

State Present Rule: “2019 Car Specifications” Section VIII Wheels, tires, and Brakes

State Proposed Change: Add item “D” All cars shall use a spec right rear tire, made by any manufacturer, which has a durometer of 50 or greater as tested with a track owned durometer by a track official once cold at any time after heats or feature.

C Submitted by: Bill Coffey 9/29/19

FAILED

State Present Rule: OPEN TIRE

State Proposed Change : All 600 Classes to run Hoosier ASCS2 Tire on Right Rear. Must have tire on by 7/31/2020. Right rear tire must durometer with track owned durometer minimum of 50 before and after race. 5 Minute cool down period allowed.

4 Car Number Specifications

A Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: NONE

State Proposed Change: All WINGLESS CARS TO HAVE BLACK PLATE WITH WHITE NUMBER OR WHITE PLATE WITH BLACK NUMBER POSITIONED ON BOTH SIDES ON REAR OF ROLL CAGE. MINIMUM SIZE OF PLATE IS 7"X10". PLATE TO BE PLASTIC ONLY. NO ALUMINUM PLATES ALLOWED.

B Submitted by: BILL COFFEY Date: 9/30/19 **PASSED**

State Present Rule: NONE

State Proposed Change: TO HAVE NUMBERS ON THE FRONT NOSE AND CENTER OF FRONT WING. MINIMUM SIZE OF THE NUMBER IS 8"

C Submitted by: Greg Fraser Date: 9/30/19 **PASSED**

State Present Rule: Go Kart Numbers

State Proposed Change: All Karts have visible, contrasting colors and numbers on the rear as well as the sides and front

5 Payout and Points

A Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: VII. PAY OUTS AND AWARDS C. All T.C.R.C registered drivers will receive fifty (50) points to attend open shows. For the regular driver to receive the points, the car must attempt to run.

State Proposed Change: All T.C.R.C registered drivers will receive fifty (50) points to attend open shows. The 50 points will go towards the class or classes they are racing that night. Open shows are defined as non-regular point shows. For the regular driver to receive the points, the car must attempt to run in the classes designated heat race on the track.

B Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: VIII. PAY OUTS AND AWARDS D. 1. A driver needs to have competed in 50% of the Point shows to receive point fund payout and trophy. If less than 15 drivers competed in 50% of the point Shows, the point fund for the class will be distributed amongst the drivers that competed in 50% or more of the races.

State Proposed Change: A driver needs to have competed in 75% of the of the point shows to receive Point fund payout and trophy. If less than 15 drivers competed in 75% of the point shows, the point fund for the class will be distributed amongst the drivers that competed in 75% or more of the races

6 Race Starts/Rainouts/Lapped Cars

A Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: NONE

State Proposed Change: ALL LAPPED CARS HOLD THEIR POSITION

B Submitted by: BILL COFFEY Date: 9/29/19 **PASSED**

State Present Rule: NONE

State Proposed Change: AFTER 1 LAP IS COMPLETE, DOUBLE FILE RESTARTS TILL ½ WAY IN RACE. IF 2 RESTARTS ARE ATTEMPTED AND LAP NOT COMPLETE GO SINGLE FILE TILL THE NEXT CAUTION COMES OUT. AS LONG AS RACE IS NOT ½ WAY GO DOUBLE FILE.

C Submitted by: Irene Fink Date: 9/30/19 **PASSED**

State Present Rule: NONE in Current Rule Book

State Proposed Change: The attached chart will be used to format the night's heats, redraws and the number of cars that qualify directly to the A-Main.

All heat lineups are final after car registration is closed.

Number of Cars Registered per Class	Cars in Each Heat	Number of Pills for Redraw	Number of Cars to Redraw per Heat	Number of Cars to Qualify from Each Heat Directly to the A-Main
1	1 heat	0		1
2	1 heat	2	top 2	2
3	1 heat	2	top 2	3
4	1 heat	2	top 2	4
5	1 heat	2	top 2	5
6	1 heat	3	top 3	6
7	4/3	4	top 2	4/3
8	4/4	4	top 2	4/4
9	5/4	4	top 2	5/4
10	5/5	4	top 2	5/5
11	6/5	4	top 2	6/5
12	6/6	6	top 3	6/6
13	7/6	6	top 3	7/6
14	7/7	6	top 3	7/7
15	8/7	6	top 3	8/7
16	8/8	6	top 3	8/8
17	6/6/5	6	top 2	6/6/5
18	6/6/6	6	top 2	6/6/6
19	7/6/6	6	top 2	7/6/6
20	7/7/6	6	top 2	7/7/6
21	7/7/7	6	top 2	7/7/7
22	8/7/7	6	top 2	8/7/7
23	8/8/7	6	top 2	8/8/7
24	8/8/8	6	top 2	8/8/8
25	7/6/6/6	8	top 2	5/5/5/5
26	7/7/6/6	8	top 2	5/5/5/5
27	7/7/7/6	8	top 2	5/5/5/5
28	7/7/7/7	8	top 2	5/5/5/5
29	8/7/7/7	8	top 2	5/5/5/5
30	8/8/7/7	8	top 2	5/5/5/5
31	8/8/8/7	8	top 2	5/5/5/5
32	8/8/8/8	8	top 2	5/5/5/5
33	7/7/7/6/6	10	top 2	4/4/4/4/4
34	7/7/7/7/6	10	top 2	4/4/4/4/4
35	7/7/7/7/7	10	top 2	4/4/4/4/4
36	8/7/7/7/7	10	top 2	4/4/4/4/4
37	8/8/7/7/7	10	top 2	4/4/4/4/4
38	8/8/8/7/7	10	top 2	4/4/4/4/4
39	8/8/8/8/7	10	top 2	4/4/4/4/4
40	8/8/8/8/8	10	top 2	4/4/4/4/4

D

Submitted by: Randy Goetz Dated 9/4/19

PASSED

State Present Rule: None

State Proposed Change: Starts – The pole car will set the pace (dictated by race director) and bring the field to the starting area in turn #3 in double or single file. The pole car starts the race.

C

Submitted by: Rick Francis Date: 9/29/19

FAILED

State Present Rule:

State Proposed Change: If you run your heat race and get rained out, consider where you finished as your feature finish, "to eliminate rain dates"

7 General Rules

A Safety Information

Submitted by: Dennis Cummings Date: 9/30/19

FAILED

State Present Rule: Rookies/JR 1 go karts

State Proposed Change: Out of concern for safety due to higher speeds being achieved on larger track, roll cages and 5 point seat belts are mandatory effective for the 2020 season.