

## Thunderhill Minicup Rules 2021

***Age Limit: 8 to 16 years of age***

***If racer turns 16 during season, they will be allowed to finish the season***

**BODY:** To be made to a late model style body. Front fenders and rear quarters to cover tires for safety. Roof access for driver. Spoilers cannot exceed past body panel, height 6" max.

**Bumpers:** Front bumpers 13" – 14" to the top of loop. Rear bumper 9" off ground, 13" to top.

**Motors:** 420cc Predator engines only. ***Long block can only be assembled and sealed by Thunderhill Engine Builder.***

**NO HEMI ENGINES ALLOWED**

Engine Specs:

Special Thunder Hill Mini Cup Spec cam only

OEM 66mm underground crankshaft

Billet connecting rod, stock length

Flat top piston 90mm

Stock lifters only

Cylinder Head

Must be completely stock with exception of valve springs

Valve springs: install height 1.150" +/- .010"

Spring pressure 52lbs at 1.150" +/- 2lbs

Stock (OEM) valves only with no modifications

Must use stock (OEM) rockers and push rods

No port work or "cleaning up" ports allowed

No performance valve jobs

No decking cylinder head surface

### Ignition

Stock (OEM) ignition coil and spark plug wire, installed in factory location/position

Stock (OEM) flywheel with plastic fins installed in factory position

Stock flywheel key must be used

### Carburetor

Venturi: 22mm Throttle bore: 27mm +/- .010"

Stock emulsion tube only

Adjustable main jet and idle mixture allowed

**Exhaust:** Any header

**Clutch:** 17 Tooth. Drum/shoe style clutch only.

**Fuel:** Pump gas only. *No racing fuel, no E85, no additives.*

Stock fuel tank can be replaced and relocated with a fuel cell for safety.

**Shocks:**

1 shock per corner

No stacked springs

\$150 buy rule per shock

**Tires:**

7 or 8" wheels/tires allowed

No grooving or siping allowed

No chemical treating of any kind

**Weight:**

650 suspended chassis

600 rigid chassis

**Safety:**

5-point style seat belts required

Minimum of 3 bars in front of driver

Hanns device required

Chains guards are recommended, and chain guides are allowed.

**Protest:**

Top 4 only

A driver is only allowed to protest 4 times per season

Must finish in the top 4 to protest

Protest must be made before all cars leave the inspection area, after feature only.

No backwards protest

No counter protests

**Protest Fuel: \$100**

**Protest Tires: \$100 per tire**

**Protest Valve Springs: \$50**

**Protest carburetor: \$50**

**Engine Buyout: \$1100, *No clutch or header***

**All engines will be checked by track engine builder only.**

**If found to be illegal:**

1st offense - lose all points and money for that event, plus a 2-week suspension

2<sup>nd</sup> offense – lose all points and money for that event, plus a 4-week suspension

3<sup>rd</sup> offense – suspended for 365 days from that event