

# 2018 TOCCOA RACEWAY

## Stock 4 Cyl

(Window Safety Net & Mufflers are Mandatory)

### Fuel:

- A) 110 – Track Fuel
- B) NO OXYGENATED FUELS
- C) NO E85

### Body:

- A) Any two or four door foreign or domestic car with a 94-101.5 wheelbase. Wheelbase must match make and model of car.
- B) May have a complete aluminum body but must retain stock shape & appearance. (See Body Measurements)
- C) Inner panels may be removed.
- D) NO FWD or MID Engine Cars
- E) Must have floor pan on both sides to rear of front seats.
- F) Must have a rear firewall or drivers compartment must be boxed in
- G) After market nose piece OK. MD3 nose OK molded fenders **MUST MOUNT FLUSH** on top and sides of fenders and no wider than 1 inch outside of tires. **(NO WINGS / ELEPHANT EARS)**
- H) May run a 6 inch rear spoiler – can't go over side of quarter panel – no wider than the width of the car – spill plates OK spill plate measurements bottom is 16 inches rear 8 inches high 4 inches across the top rear and 4 inches high in the front.
- I) Interior spoiler no more than 4 inches high and NO higher than dash.
- J) Rear bumpers must **NOT** extend past the inside of the rear tires **unless** it has a bumper cover or turns forward (if turned forward must be on a 90° angle **NO SHARP CORNERS / EDGES)**
- K) Nose 70-inch maximum width.
- L) 68-inch maximum width at **ANY** point.
  - M) 38-inch maximum ground to deck (bottom of spoiler).
  - N) Aluminum ok to close rear of car, **MUST** come down to framerrails (No holes or flaps)
  - O) May use lexan in rear windows.
  - P) Must run hood.
  - Q) Breather may stick through hood.
  - R) Cold air box ok but air holes in hood only not in firewall.
  - S) May have heat shield under hood.
  - T) May have hole in firewall big enough for the header to passthrough (tech discretion if hole is to big).
  - U) May replace top ¼ of firewall with steel or aluminum (this doesn't mean the whole firewall) no lower than original master cylinder hole in firewall. No holes above or below the deck.

\*\* Acceptable body infractions will result up to a **50lb** weight penalty in the area of the infraction\*\*

\*\* All body infractions are not acceptable, tech man's discretion\*\*

### Chassis / Suspension:

- A) Must have a roll cage and all safety equipment.
- B) Roll cage must be secured to the unibody.
- C) NO Tube Chassis Allowed.
- D) May tie chassis together by splitting floor pan and put square tubing in from the top and may stick through floor pan **BUT NOT** totally underneath.
- E) Square / roll cage tubing from strut towers forward is acceptable.
- F) May use square tubing or roll cage material from back of shock mounts to rear of car must be straight no angling of material.
- G) All A frame, trailing arm's and springs must be stock and mounted in **STOCK** location (may cut lower A frame for
- H) caster / camber adjustments)
- I) May cut Top trailing arm (s) or re drill for pinion angle only.
- J) Lowering blocks ok

# 2018 TOCCOA RACEWAY

- K) Caster / Camber plates ok
- L) Adjustable buckets or Jacking Bolts are ok, but **MUST** remain in **STOCK** location (Buckets or Jack Bolts may be raised for spring travel). If not in **STOCK** location you may be subject to a weight penalty. (Tech's Discretion)
- M) May cut upper or lower control arm for caster /camber.
- M) May cut pan hard bar must be **NON ADJUSTABLE**. Must be located in STOCK location.
- N) Mono Balls Allowed

## **Brake System:**

- A) 4 wheel disk brakes permitted must have OEM components
- B) Dual master cylinder permitted.
- C) 3 wheel brake shut off permitted
- D) No adjuster for brakes from front to rear in reach of driver.
- E) Stock rotors and drums **No** lightening but may remove caliper and rotor on **RF Only** (Ford on a Ford Toyota on a Toyota).

## **Wheels & Tires:**

- A) Wheels Steel 8" maximum width. Bead locks ok (bead lock must face outward).
- B) May have bead locks on all 4 wheels.
- C) Hoosier RC 400 or American Racer MD 57
- D) No softeners

## **Rear ends:**

- A) Any stock up to 8.8 for make of car.
- B) No gun drilled axles (may weigh axles to compare if necessary)
- C) No full spools
- D) Mini spool OK
- E) Housing cannot be modified for gear clearance.
- F) May lock rear end by weld, mini spool, limited slip (limited slip unit must be stock **NO** aftermarket units).
- G) **NO RACKET SPOIL ALLOWED!**
- H) If spider gears are removed, you must claim lightened gear and ~~at~~ 25lbs.
- I) Cut gears must add **25lbs.**
- J) If gears are polished must add **20lbs.** (if cut and polished add both penalties)

**\*\* ENGINE: ALL Engine Core Parts (ex: Block, Head, Crankshaft and Intake) Must Have Been Available on Cars or Trucks Sold to the General Public by Mass Production. All Parts Must Be OEM of the Same Brand Vehicle You Are Racing. NO FRONT WHEEL DRIVE, MARINE, INDUSTRIAL OR SPECIAL PRODUCTION PARTS PERMITTED.\*\***

## **Engine option #1 S.C. Stock 4 type weight /lb** **2000 lb Minimum. See CC's weight:**

- A) Stock engine location – no set backs.
- B) No engines with more than 2 valves per cylinder.
- C) Ford in a Ford: Toyota in a Toyota.
- D) No rotary or turbo or double over head cam engines permitted
- E) OEM blocks only .080 over bore max. **5cc** for wear – not to exceed 2500cc + .08 over bore.
- F) Ford may Sleeve a 2300cc block to a 2000cc.
- G) Aluminum cam gear or pulley allowed.
- H) Any Steel connecting rod- no aluminum or titanium.
- I) NO titanium wrist pins.

# 2018 TOCCOA RACEWAY

- J) Only Babbitt style bearings Allowed (No roller bearings) coated ok.
- K) Stock crank with stock stroke  $\pm .01$  tolerances.
- L) NO AFTERMARKET CRANKS. (stock lightened crank must add **50lbs** in front of firewall)
- M) All engines must use an in-block wet sump oil system.
- N) Racing oil pans permitted.
- O) NO dry sumps allowed.
- P) Any flat top piston – Toyota 1600 and 1800 may run dome of .235 tall only. (.267 dome must add **50lbs**)
- Q) Formula for cc's- bore X bore X .7854 X stroke X 4 = cid then divide cid into .061= cc's. Tolerance is **5cc** for wear.
- R) May have E-Vac to header only NO VACCUM PUMPS.
- S) May run electric water pump.
- T) May run electric fuel pump.
- U) Ignition – stock or Mel's Ignition ONLY (NO BOOSTERS on Ignition). (No Traction control allowed)(NO ECU Units) (NO MSD Style)
- V) Single Ignition coil Only.
- W) Radiator must be mounted in front of engine.

## Heads:

- A) MUST HAVE BEEN AVAILABLE ON PRODUCTION CARS/ TRUCKS FROM OEM AUTOMOTIVE FACTORY
- B) OEM may be changed from one size engine to another **without modification**.
- C) May have competition valve job with any angle or depth must not touch bottom of valve boss.
- D) All angles MUST be concentric with valve guide.
- E) Any steel valve stock diameter may be undercut stem + .009 tolerances.
- F) Valve stem must be stock diameter for year model of head. (No 7mm valve stem in a Ford)
- G) Double valve springs ok must be steel
- H) Beehive valve springs ok must be steel
- I) Any steel retainer
- J) Lifter has to be stock diameter – solid ok
- K) NO PORTING or POLISHING

## Intake:

- A) MUST HAVE BEEN AVAILABLE ON PRODUCTION CARS/ TRUCKS FROM OEM AUTOMOTIVE FACTORY.
- B) OEM may change from one size engine to another **without modification** unless stated.
- C) No fuel injection manifolds
- D) Must be single carburetor.
- E) No side draft intakes.
- F) OEM style gasket only. (.07 max thickness)
- G) May modify for carburetor but must be approved before race by tech.
- H) May bore straight down for clearance - NO RADIUS or BLENDING.
- I) Intake gasket is part of intake protest.

## Carburetor:

- A) Stock carburetor or Holley 350 cfm (#7448 or 0-80787-1) or Holley 500 cfm #4412 must pass no go gauges.
- B) Must have air horn with number.
- C) Float bowl must face forward
- D) May cut end of screws and have holes in butterflies
- E) No thinning of shafts
- F) No polishing or grinding
- G) Spacer and adapter – any 1" max thickness together – **NO TOLERANCE**. Spacer cannot protrude into intake.
- H) 2 gaskets @ .07 thickness maximum each

# 2018 TOCCOA RACEWAY

## Camshaft:

- A) Solid or Hydraulic **NO ROLLERS**
- B) Maximum .425 lift at valve with .025 lash at valve for solid
- C) Hydraulic ANY LIFT
- D) Hydraulic lifter must collapse or be taken apart for inspection
- E) No swapping of any lobes – must be in stock order
- F) No roller or needle bearings stock type only coated ok

## Flywheel & Clutch Assembly:

- A) Stock flywheel must weigh 16lbs
- B) Must have stock or stock replacement clutch and pressure plate
- C) NO LIGHTENING OF PRESSURE PLATE
- D) Only grinding, adding weight or drilled holes to pressure plate for balancing. Drilled hole size is 7/16 diameter max (**NOT** all the way around pressure plate). If there are holes all the way around pressure plate it WILL be considered lightening.
- E) Studs for pressure plate ok (must be a purchased stud, no custom machined studs allowed)
- F) Cannot relocate pressure plate bolt hole pattern
- G) Scallop flywheel add **50lbs**

## Transmission:

- A) **MUST BE STOCK** with all working forward and reverse gears.
- B) Cannot remove or lighten drive or reverse gears.
- C) May remove speedometer gears only.

## Driveshaft:

- A) Minimum of 1 1/2" diameter
- B) Must be steel
- C) Must have a safety loop
- D) Must be painted white with number on it.

## Engine Option #2 Ga Rules Cars 2300 Fords Only 2200lbs.:

### Bottom End:

- A) Stock crankshaft NO lightening
- B) .060 over bore permitted
- C) 5.2 rod only can be aftermarket steel
- D) May use racing oil pan
- E) No dry sump
- F) May be balanced
- G) May run E-Vac NO VACCUM PUMPS
- H) Ignition – Stock or MEL's Ignition only
- I) Radiator must be mounted in front of engine

# 2018 TOCCOA RACEWAY

## Head:

- A) Must be stock for make and model and available on cars from factory
- B) Stock 1 piece replacement valve permitted (can be single lock groove). Racing valve springs permitted.
- C) Any hydraulic (.455 lift max.) cam permitted. Checked with a solid lifter @ 0 lash.
- D) Cam gear permitted
- E) Stock cast iron manifold or header permitted
- F) Shims under lifter permitted
- G) NO PORTING & POLISHING PERMITTED

## Intake Manifold:

- A) Stock intake and stock fuel injected (with adapter) permitted. \*\*Note EFI intake used only with GA rules\*\*
- B) No sidewinder intakes permitted
- C) No porting or polishing

## Carburetor:

- A) 1" spacer or adapter permitted
- B) Holley 350 (7448) or 500 (#4412) carb. permitted. No polishing and porting. Must pass no go gauge.
- C) Carburetor float bowl must face forward
- D) Holes in butterflies ok

## Header:

- A) Spec Schoenfeild Fords may run # f-234v or # f-235v
- B) Spec Schoenfeild Toyota may run # t-168 or stock manifold
- C) These headers are the only ones allowed with SC type stock 4rules.
- D) .455 hydraulic head GA stock 4 type rules may run tri-y
- E) Tech must approve any .455 hydraulic cars not running a spec header.
- F) May be coated or wrapped only must remain as it came from Schoenfeild. (If wrapped you may be subject to unwrap for inspection)
- G) Nothing should protrude into collector if so it WILL be subject to a Disqualification.
- H) OEM style gasket only factory replacement or from Schoenfeild.
- I) If Schoenfeild doesn't offer a header then a **Stock Manifold MUST be used.**

## CC Weight's, Weight Break's and Penalties:

- A) Toyota 2tc & 3tc must weigh 2000 lbs. minimum
- B) Ford 2.0 must weigh 2150 lbs. minimum
- C) Any other than listed must weigh 1lb per cc
- D) HANS / Full Containment Seat -25lbs (1 or the other not for both). This weight break is in effect at all times.
- E) Scallop Flywheel +50lbs
- F) .267 Dome Toyota Only +50lbs
- G) Cut / Lightened Ring Gear +25lbs
- H) Polished Ring Gear +20lbs
- I) Lightened Crankshaft +50lbs (in front of fire wall)
- J) CC's and all weight breaks / penalties, and weight TOTAL MUST be listed on each side of front fenders or hood. All breaks and penalties should be told to tech at pre-race inspection for documentation. If not listed or documented, track has the right to DQ after qualifying or main feature.
- K) 25lb weight break for full containment seat or head & neck restraint
- L) 25lb weight break for on-board fire suppression system
- M) All weight must be posted on the left side "A" post.

# 2018 TOCCOA RACEWAY

## 2018 BODY DIMENSIONS

ROOF WIDTH 46' MIN  
ROOF LENGTH  
48' MIN

FRONT WIDTH 70'  
MAX.  
<ND ELEPHANT

SPILL PLATE

EARS) REAR WIDTH 68'

MAX. REAR SPOILER

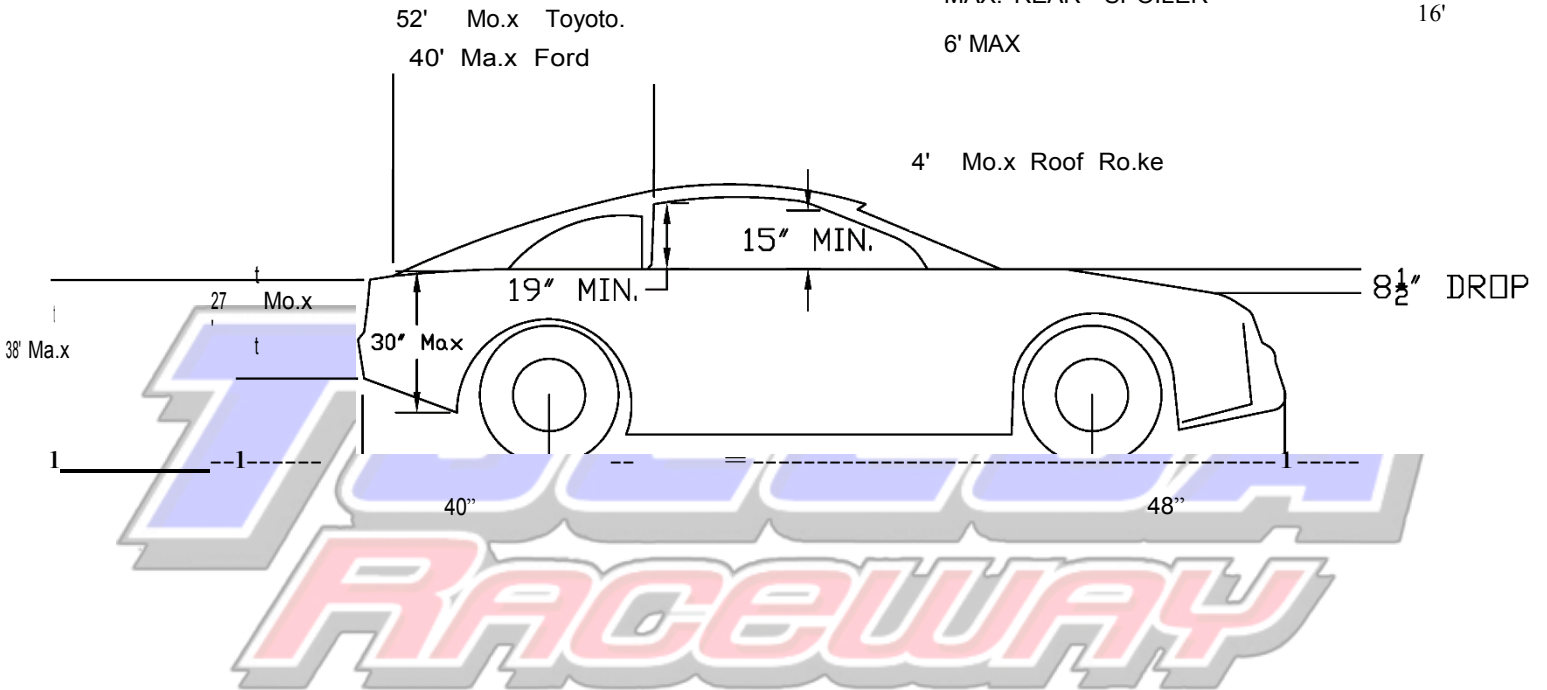
6' MAX

4. C7s

16'

52' Max Toyota.  
40' Max Ford

4' Max Roof Ro.ke



2018 TOCCOA RACEWAY

**TOCCOA**  
**RACEWAY**