

# Lavonia Speedway 2018 Racing Season

## Stock 4 Cylinder- (Window Safety Net & Mufflers are Mandatory)

(\*note 2 engine combinations\*)

### **BODY -**

- A. Stock auto only
- B. May have complete aluminum body
- C. Inner panel may be removed
- D. Rear of car must be closed - no holes or flaps to meet rails
- E. Must have stock front firewall in stock location
- F. Must have floor pan on both sides to rear of driver's seat
- G. Must retain inner rocker panels
- H. Must have rear firewall or driver compartment must be boxed in
- I. Aluminum doors and fenders ok but must retain stock shape and appearance
- J. 68 inch max deck width at any point
- K. 38 inch max from ground to deck at bottom of spoiler
- L. Aftermarket nose piece ok
- M. Must run hood
- N. Interior spoiler can be no higher than the dash
- O. May run a 6 inch rear spoiler - can't go over side of quarter panel - no longer than the width of car, spill plates ok spill plates measurements bottom 16in top 4in rear height 8in front height 4in
- P. Made quarter panel pieces must start at bottom of bumper and go in a straight line to wheel opening
- Q. All firewall holes must be covered may cut big hole for header to be removed or installed but must be replaced with aluminum to no bigger than a 6in hole around the header
- R. May replace top 1/4 of firewall with steel or aluminum metal (this doesn't mean the whole fire wall) no lower than the original master cylinder hole in firewall. NO holes above or below the deck
- S. May replace dash with sheet metal - interior metal cannot be higher than dash
- T. Interior spoiler no more than 4 inches and no higher than dash
- U. May use lexan in rear side windows
- V. Breather my stick thru hood
- W. Cold airbox ok but air holes in hood only (not in firewall)
- X. Rear of cars can be open.

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

★★ all body infractions are not acceptable ★★

## CHASSIS

- A. Must have roll cage and all safety equipment
- B. Cage must be secured to unibody
- C. May tie chassis together on top of floor pan only may split floor pan and put square tubing in from top (my stick through floor pan but not totally under)
- D. Square tubing from front bumper to firewall can be used but from strut back must retain original frame rails

## ENGINE:

**ALL PARTS OF ENGINE MUST HAVE BEEN AVAILABLE ON CARS AND TRUCKS SOLD IN AMERICA. NO FRONT WHEEL DRIVE HEADS, INTAKES, ECT CAN BE USED ON A REAR DRIVE MOTOR**

### ENGINE Option 1

**HARRIS STOCK 4 TYPE WEIGHT LB PER CC 2000LB**

#### **MINIMUM BOTTOM**

- A. Stock engine location - no set backs
- B. No engines with more than 2 valves per cylinder
- C. CC must be based on original bore of block
- D. Formula for cc - bore x bore x .7854 x stroke x 4 = cid then divide cid into .061 tolerance .010 for wear
- E. No rotary or turbo or double OHC permitted
- F. OEM only .080 over max bore + .010 for wear - not to exceed 2500 cc +080 over bore
- G. Aluminum cam gear or pulley allowed
- H. Any steel rod - no aluminum or titanium
- I. Stock crank with stock stroke + .010 tolerance
- J. **NO AFTERMARKET CRANKS (STOCK Lightened crank add EXTRA 50 lbs in front of fire wall)**
- K. Oil pan - any wet
- L. No dry sumps allowed
- M. Any flat top piston - Toyota 1600 and 1800 may run dome of .235 tall only .267 dome pistons must add 50 lbs

## HEADS:

- A. **MUST HAVE BEEN AVAILABLE ON U.S. CARS FROM FACTORY**
- B. OEM may be changed from one size engine to another
- C. May have competition valve job with any angle or depth
- D. Must not touch bottom of valve boss
- E. All angles must be concentric with valve guide
- F. Any steel valve stock diameter may be undercut stem +.009 tolerance
- G. Double valve springs ok but must be steel
- H. Any steel or retainer
- I. Lifter has to be stock diameter - solid ok
- J. No porting or polishing

## **INTAKES**

- A. OEM only**
- B. No porting or polishing**
- C. May bore straight down for clearance - no radius or blending**
- D. No fuel injection manifolds except for Chevrolet and any other engine that only came with fuel injection**
- E. May modify for carburetor but must be approved before race**

## **CARBURETOR**

- A. Stock carburetor or holley 350 CFM (#7448 or 0-80787-1) or 500 cfm #4412 must pass no-go gauges**
- B. Must have air horn with number**
- C. May cut end of screws**
- D. No thinning of shafts**
- E. No polishing or grinding**
- F. Spacer and adapter - any 1" max thick together - NO TOLERANCE**
- G. 2 gaskets @ .070 thick max each**
- H. Float bowl must face forward**
- I. May have holes in butterfly**

## **CAM**

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

## **FLYWHEEL AND CLUTCH ASSEMBLY**

- A. Stock flywheel must weigh 16 lbs.**
- B. Must have stock or stock replacement clutch and pressure plate**
- C. Stud for pressure plate ok**
- D. Cannot relocate bolt hole pattern**
- E. Scallop flywheels add 50lbs**

## **TRANSMISSIONS**

- A. Must be stock with working forward and reverse gears**
- B. Must have safety loop**
- C. Cannot remove or lighten of gears**

## **DRIVE SHAFT**

- A. Minimum of 1 1/2" diameter**

**\*\*\*Engine option #2 Ga Rules Cars 2300 FORD ONLY\*\*\* 2250LBS**

#### **BOTTOM END**

- A. STOCK CRANK NO LIGHTNING**
- B. .060 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**

#### **HEADS**

- A. Must be stock for make and available on cars from factory**
- B. Stock- 1 piece stock replacement valve permitted (can be single lock groove). Double valve springs permitted.**
- C. Stock, one piece stock replacement valve permitted. NO TAPPER VALVE STEMS Double valve springs permitted.**
- D. Any Hyd. (.455 lift) cam permitted. CHECKED WITH SOLID LIFTER AT 0 LASH**
- E. Cam gear permitted.**
- F. Stock cast iron manifold or header permitted.**
- G. Shims under lifter permitted.**
- H. No Porting & Polishing permitted**

#### **INTAKE MANIFOLD**

- A. Stock intake and stock fuel injected (with adapter) permitted. No sidwinder intake permitted. \*\*\* NOTE EFI INTAKE ONLY USED WITH GA RULES\*\***
- B. No sidwinder intake permitted.**
- C. No porting or polishing permitted**

#### **CARBURETOR**

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

#### **REAR ENDS**

- A. Any stock up to 8.8 for make of car**
- B. No gun drilled axles**
- C. No full spools (mini spool ok)**
- D. Housing cannot be modified for gear clearance**
- E. May lock rear ends by weld or mini spool**
- F. No lightening of any gears**  
**\*\*(Cut gears must add 25lbs)\*\***



## SUSPENSION

- A. Must be stock suspension
- B. Lowering blocks ok
- C. Adjustable buckets ok springs must be in stock location (Buckets may be raised for spring travel but keep stock angle) may cut lower a-frame for caster/camber adjustments
- D. May run spring buckets
- E. May cut pan-hard bar, must retain stock ends non adjustable
- F. Caster and camber plates ok
- G. Stock mount steel body shocks only no heims. May be adjustable **NO CANISTERS ALLOWED**
- H. May adjust shocks for travel but cannot change the angle of the shock
  - May cut top trailing arm or re-drill for pinion angle only
- I. Bushings or offset bushings ok in steering rack, mono balls allowed

**\*\* JACK BOLTS PERMITTED\*\***

**\*\* \$125 buy rule on shocks\*\***

**\*\*\$250 Claimer Rule on Struts\*\***

## HEADERS

Spec Schoenfield fords #f-234v or #f-235v Toyotas #t168 OR STK MANIFOLD  
**THESE SPEC HEADERS ARE THE ONLY HEADERS LEGAL WITH HARRIS  
ENGINE TYPE RULES**

455 HYD HEAD GA TYPE ENGINES CAN USE tri y  
ANY 455 hydraulic car not running a spec HEADER  
HEADER MUST BE APPROVED

## IGNITION

- A. Stock or Mels Ignition ONLY
- B. No Boosters on ignition

## WHEELS & TIRES

- A. WHEELS 8" BEADLOCKS OK
- B. 2. HOOSIER 400s, American Racer MD57
- C. 3. NO Chemicals Allowed

## **BRAKES**

- A. 3 wheel brake shut off permitted**
- B. Dual master Cylinder permitted with NO adjuster in driver's reach**
- C. Stock rotors and drums no lightning but may remove caliber and rotor on RF ONLY**
- D. 4 wheel Disc brakes permitted, must have OEM components**

## **NOTES:**

- A. NO FWD OR MID ENGINE CARS**
- B. REAR BUMPERS MUST \*NOT\* EXTEND PASSED THE INSIDE OF REAR TIRES \*UNLESS\* IT HAS A BUMPER COVER OR TURNS FOWARD**
- C. VP Fuel 110 or 114 non oxygenated fuel only**
- D. Radiator Must Remain in Front Of Motor**
- E. lb per lap burn off**
- F. 5lb tolerance at scales**
- G. All weight breaks or penalties must be claimed on hood/fender at all times. Tech man must be notified**

## **NOSE:**

- A. MD3 nose ok, molded fenders must mount flush on top and sides of metal fenders and, no wider than 1 inch outside the tires**

**IF IT DOES NOT SAY YOU CAN'T DO IT, IT DOES NOT MEAN YOU CAN. ASK TECH. TECHMAN HAS FINAL SAY.**

