



## **Penn Can Speedway and Afton Motorsports Park**

### **2026 Mini Modified Rules**

#### **TIRES**

AMERICAN RACER OR HOOSIER TIRES ONLY: MUST BE ON ALL FOUR CORNERS

##### ***Hoosier:***

Right Rear 61x10x10 RD-15 or RD-20

Left Rear/Fronts 57x6.5x10 OR 60x7.0x10 R-15

##### ***American Racer:***

Right Rear: - 61/10- 10DT

Left Rear/ Fronts- 57/6.5 – 10DT

\* FRONTS HAVE TO MATCH EITHER BOTH LARGE OR BOTH SMALL (LEFT REAR DOES NOT)

- NO DOCTOR PAD, NO NEEDLING, NO SIPING .
- NO REGROOVING OF ANY TIRE WITH THE EXCEPTION OF RIGHT REAR BLOCK TREAD TIRE. GROOVING OF ORIGINAL TREAD .
- PATTERN WITH #2 BLADE IS ALLOWED.
- GRINDING OF TIRES AT TRACK IS ALLOWED
- LR OFFSET: OUTSIDE OF LR TIRE TO FRAME BY LOWER INNER RUB RAIL
- 18 INCHES MAXIMUM FOR OLD STYLE CARS
- 17 INCHES MAXIMUM FOR NEW STYLE CARS
- ALL OTHER CHASSIS MANUFACTURERS MUST FOLLOW 17" OFFSET RULE

##### ***DUROMETER READING:***

RR – (HOOISER 15) NO LOWER THAN 28

RR – ( HOOISER 20) NO LOWER THAN 40

FRONTS / LR – NO LOWER THAN 27

NO DOPING OF TIRES ALLOWED

**RIMS**

- FRONT AND LEFT REAR 7 1/2-INCH-WIDE MAXIMUM
  - FRONT 3 INCH OFFSET ONLY
- RIGHT REAR 8 1/2-INCH-WIDE MAXIMUM
- NO DOUBLE BEAD LOCKS
- NO ALUMINUM OR TITANIUM BOLTS IN BEADLOCK RINGS OR HUBS
- ALL BOLTS MUST BE IN WHEELS \*8\* BOLTS AND NUTS
- NO PLASTIC OR CARBON FIBER WHEELS
- NO BLEEDERS OF ANY STYLE

**HUBS**

ALUMINUM ONLY: NO CERAMIC BEARINGS

**SPINDLES**

STEEL/ALUMINUM SNOUT, 4 BOLTS TO HOLD STEERING ARM ON SPINDLES OR  
NEW 2 BOLT SPINDLES & ARMS

**STEERING/POWER STEERING**

- POWER STEERING PERMITTED WITH NO MORE THAN 12 DEGREES OF CASTOR
- MUST BE RACK & PINION STEERING
- NO ALUMINUM STEERING SHAFTS
- NO ALUMINUM U- JOINTS

**FUEL CELL**

- MUST BE PLASTIC 3-5 GALLON
- VENT LINE MUST HAVE A ONE WAY CHECK VALVE AND LINE MUST POINT TO GROUND

**WEIGHT**

- MINIMUM WEIGHT WITH DRIVER IS 900 POUNDS AFTER EACH RACE
- WEIGHTS MUST BE BOLTED WITH 5/16 BOLTS OR LARGER & LOCK NUTS
- WEIGHTS MUST BE PAINTED WHITE AND HAVE CAR NUMBER ON EACH
- ALL BOLT- ON WEIGHT MUST BE INSIDE MAIN FRAME

**RADIATOR**

EITHER DOUBLE OR SINGLE CORE ALLOWED

**GEAR**

- OPEN, 520 CHAIN
- FRONT GEAR AND CHAIN MUST BE STEEL

**GEAR LIGHT**

- DRIVER MUST BE IN RACING GEAR BY TURN 3 FOR ALL STARTS AND RESTARTS
- NO SHIFTING DURING RACE OR STARTS OR RESTARTS. NO SHIFTING PERMITTED
- IF LIGHT COMES ON AND YOU ADVANCED A POSITION, YOU WILL BE PENALIZED TWO POSITIONS AT NEXT CAUTION OR END OF RACE
- IF SHIFT CABLE CONNECTED LIGHT MUST WORK. IF LIGHT DOES NOT WORK IN TECH WILL BE A DQ

**REAR BRAKES**

- ONE REAR BRAKE - 2 PISTON CALIPER ONLY
  - WILWOOD # 120-4062
  - AFCO #6630410
- 10" MAXIMUM DIAMETER BRAKE DISC WITH 4 BOLT MOUNTING HUB
- 5/16 THICK MAXIMUM
- 3/4 IN. MASTER CYLINDER
  - WILWOOD #2606764
  - US BRAKE #201-1512

**FRONT BRAKES**

- NO PROPORTIONING VALVES
- 1/8 THICK ROTOR
- BRAKE LINE MASTER CYLINDER
- T, 24 IN. LINE TO FRONT AXLE
- T, 24 IN. LINE TO RIGHT SIDE
- 16 IN. LINE TO LEFT SIDE

***SEE DIAGRAM #2***

**BELLY PAN**

- FRONT MUST STOP AT STEERING BOX
- BACK MUST STOP AT BAR WITH SERIAL NUMBER ON IT
- BELLY PAN MUST BE ON TOP OF FRAME RAILS
- MUST BE ALUMINUM

**GAUGES**

- NO AIM OR MICRON TYPE GAUGES IN OR ON THE CAR
- TACH IS ONLY GAUGE THAT CAN BE CONNECTED TO WIRING HARNESS
- 3 GAUGES IN A CAR
  - OIL PRESSURE – WATER TEMPERATURE – TACHOMETER
- NO MORE THAN 3 ON/OFF SWITCHES IN CAR
  - 1ST SWITCH – ON/OFF FOR ENGINE
  - 2ND SWITCH – FAN OR LIGHTS ENABLING SIGHT TO GET IN AND FASTEN BELTS
  - 3RD SWITCH – FOR HELMET BLOWER ONLY

**BIRDCAGES**

- ALL SINGLE BEARING BIRD CAGES AND NEW RR & LR DOUBLE BEARING BIRD CAGES
- NO CERAMIC BEARINGS

**ENGINE**

- ALL ENGINES MUST HAVE SEAL BEFORE IT IS PERMITTED TO RACE.
- STOCK FROM MOTORCYCLE INCLUDING:
  - INJECTORS
  - CLUTCH
  - SPARK PLUGS - ANY NGK SPARK PLUG
  - BLACK BOX
- MOTORS MUST REMAIN STOCK, MUST BE SEALED BY XCEL, TOM SHINER OR IVAN FORNEY.
- ALL REBUILDS MUST BE REGISTERED AND SEALED BY TECH OR OFFICIAL
- NO POWER COMMANDERS
- STOCK FLASHED FROM SUZUKI ECU MUST BE UNLOCKED
- TAMPERING OF ECU WILL NOT BE ALLOWED (OEM ECU ONLY)
- ALL ENGINES MUST HAVE SEAL DONE BY TECH, YAMAHA MUST HAVE XCEL SEALED ECU.
- IF THEY ARE FOUND NOT SEALED, YOU ARE DISQUALIFIED.
- IF SEAL IS TAMPERED WITH, IN ANY SHAPE OR FORM, YOU ARE DISQUALIFIED.
- NO AFTERMARKET DEVICES

**ENGINES ALLOWED**

- ❖ SUZUKI GSXR 600 ONLY 2000 – 2010
- ❖ Yamaha FZ09 only 2014-2020
- ❖ “SUZUKI” KINZLER ADJ. HIGH SPEED BYPASS
- NO PILL BLOCK
- 12 VOLT BATTERY ONLY
- ALL WIRING HARNESSSES MUST BE REMOVABLE
- TACH WIRE MUST BE ACCESSIBLE TO OFFICIALS AT ALL TIMES
- (YELLOW WITH BLUE STRIPE)

**WHEEL BASE**

- 66 ¼ MINIMUM TO 67 ¾ MAXIMUM

**BUMPERS & NERFS**

- MUST BE STEEL.065 MINIMUM AND .095 MAXIMUM THICK WITH ONE INCH DIAMETER

**MUFFLER**

- BEYEA, SCHOENFELD, XCEL TOTAL FLOW 943 (YAMAHA)

**EXHAUST**

- BEYEA/SCHOENFELD
  - NO JET COATED HEADERS
  - NO CERAMIC HEADERS
  - NO STAINLESS-STEEL HEADERS

**BATTERY**

- NO GEL
- NO LITHIUM
- PLAIN 5IN. BY 7 IN. LAWN MOWER BATTERY ONLY

### **RADIUS ROD**

- Front | Right: 11"
- Front | Left: 10 ½"
- FRONT PAN HARD BAR NO SHORTER THAN 18"
- BACK PAN HARD BAR 21 ½"
- BACK RIGHT SIDE PAN HARD BAR 23"
- BACK LEFT SIDE PAN HARD BAR 25"
- NO SPRING RODS
- NO BUMP RUBBER RODS

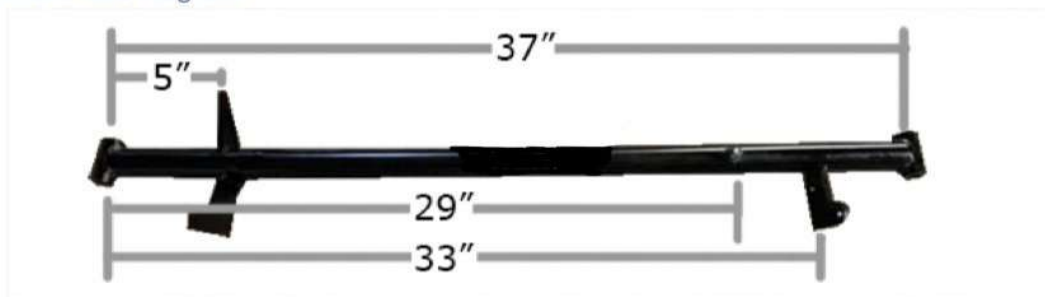
### **HEIM ENDS**

- MUST BE STEEL BALL STYLE

### **FRONT AXLE**

- ONE PIECE STEEL AXLE (SEE DIAGRAM)

Front Axle Diagram



### **WHEEL WIDTH**

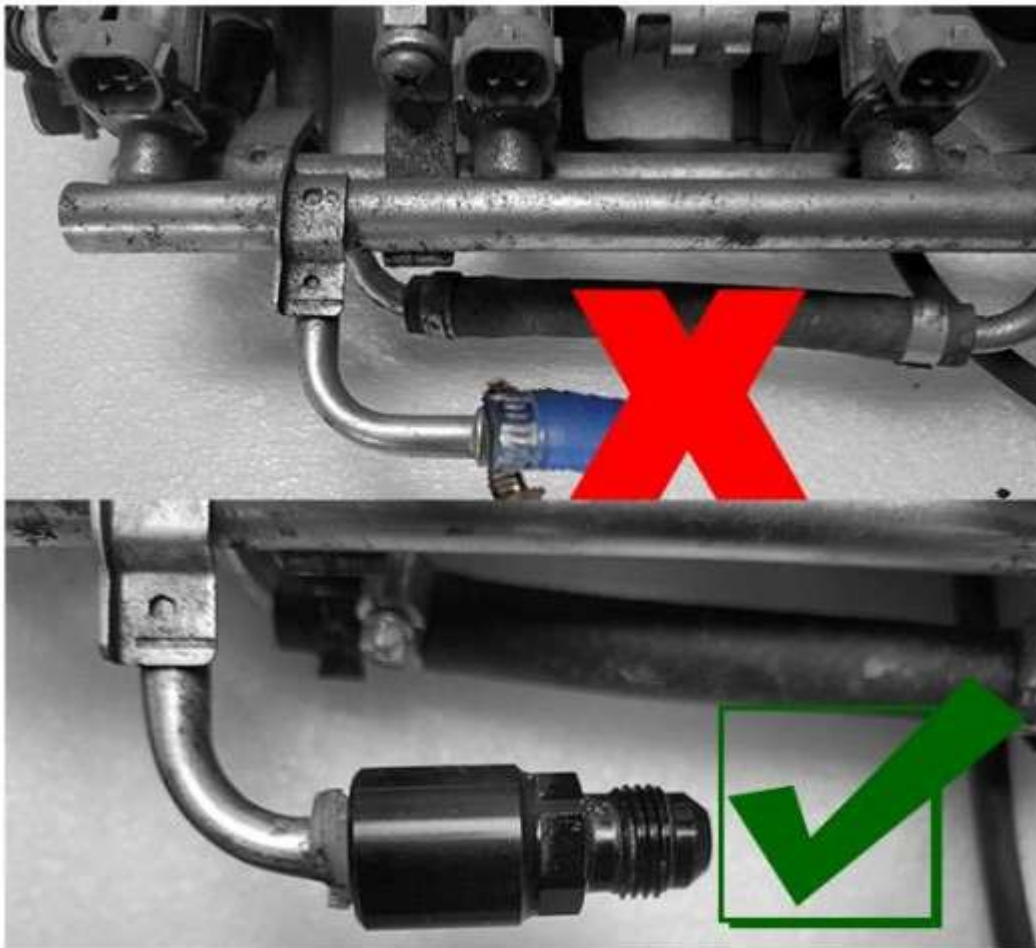
- 63 INCH MAXIMUM. MEASURED OUTSIDES OF REAR TIRES

### **FUEL**

- 110 VP Fuel Or Pump Fuel
- NO MENTHANOL
- NO ADDITIVES

**FUEL PUMP**

- FUEL PRESSURE 43 TO 51
- MALLORY #4060FI
- HOLLY RED
- WALBRO
- BLUE OR BLACK HIGH PRESSURE FUEL LINE - Braided fuel line is now allowed. Also please disconnect and test your fire suppression systems regularly to make sure the levers do not freeze up.
- REGULATOR HOLLEY 12-882
- FITTING FOR FUEL RAIL RUSSELL #640863



Fuel Rail Connection Diagram

**SHOCKS**

- IF SHOCK(S) IS NOT CRIMPED, OFFICIAL WILL CONFISCATE SHOCK(S) AND HAVE SHOCK(S) INSPECTED
- BILSTEIN XCEL #1, PENSKE OR DIG SPEC SHOCK
- ALL CARS MUST HAVE ALL SAME BRAND SHOCKS ON EACH CORNER OF THE CAR  
NO MIXING OF SHOCKS
- NO CUTTING SHOCKS APART OR CHANGING VALVES
- NO SPRING SHIMS OR SPACERS
- SHOCK EXTENSION IS 1 INCH ONLY – BACK ONLY
- 4 INCH THREADED TUBE COIL KIT
- ONLY 4 SHOCKS PER CAR
- NO BUMP RUBBERS
- NO DRILLING AND/OR ADJUSTING OF GASES
- DIG SHOCKS REBUILDABLE ONLY THROUGH DIG
- SHOCKS CAN BE AND WILL BE PULLED AT RANDOM BY OFFICIAL AND SENT OUT TO BE CHECKED
- ILLEGAL SHOCKS WILL BE KEPT BY OFFICIAL
- REAR SHOCK MOUNT SLIDERS ACCEPTED

**SPRINGS**

- OPEN
- ONLY ONE SPRING PER SHOCK
- ONLY FOUR SPRINGS PER CAR
- 1 7/8 DIAMETER SPRING ONLY
- NO BARREL SPRINGS

**BODY**

- ALL BODIES MUST MEET XCEL 600 SPECS
- 4" MAX HEIGHT ON SPOILERS
- MUST MEET ALL TEMPLATES
- 6-2 ½ INCH HOLES LF BOTTOM DOOR (AIR FOR ENGINE)
- HOLE IN HOOD FOR AIR 1 ¼ INCH BY 6 ¼ MAXIMUM
- OPTIONAL LOUVERS FOR AIR BOX AND ROOF FOR RADIATOR
- NO SKIRTING BELOW FRAME IN FRONT OR ON BOTH SIDES
- ALL BODY PARTS MUST BE ON CAR AT START OF EACH RACE
- FIREWALL MUST BE IN CAR AT ENGINE



**NUMBERS & LETTERS**

- MUST BE DISPLAYED ON THE ROOF, BOTH SIDES OF CAR AND ON BACK
- SIZE MUST BE 16 INCHES IN HEIGHT FOR TOP & SIDES
- LETTERS IN FRONT, BACK OR IN NUMBER MUST BE 8 INCHES MINIMUM FOR TOP AND BOTH SIDES

**AIR BOX**

- STOCK OR NEW TALLER AIR BOX WITH STACKS
- STOCK BOOTS MUST BE CUT DOWN
- IF YOU ONLY RUN TWIN AIR FOAM FILTER YOU MAY RUN A PIECE OF STEEL MESH UNDER FILTER TO HOLD FILTER UP
- AIR BOX COVER MUST BE ON CAR AND MUST HAVE FIRE SHIELD COVERING ENGINE
  - BLANKET OR ALUMINUM COVER
- AIR FILTER MUST BE
  - GREEN – #2004
  - K&N – #33/2084
  - K&N - #33/2018
  - TWIN AIR
  - Yamaha - Air filter Xcel

**FRAME**

- ALL CHANGES TO FRAME MUST BE IN LETTER FORM EXPLAINING REASONS FOR CHANGES. AFTER APPROVAL, OFFICIAL WILL STAMP LETTER AND MUST BE AVAILABLE FOR PRESENTATION TO OFFICIALS AT ANY TIME
- MUST REMAIN STOCK
- NO CUTTING BARS
- NO ADDING BARS
- NO MOVING OF ANY BARS TO DIFFERENT SPOTS
- ENGINE MUST REMAIN STOCK POSITION
- ALL CARS MUST HAVE ROCK SCREEN ON FRONT FOR DRIVER SAFETY
- MUST HAVE CAGE AROUND FUEL CELL
- OTHER CHASSIS MUST BE BROUGHT TO OFFICIALS FOR INSPECTION BEFORE ALLOWED

**CAR INSPECTIONS**

- ALL CARS MUST BE INSPECTED BY BEFORE CAR IS PERMITTED TO RACE
- A CAR THAT IS NOT INSPECTED WILL BE DISQUALIFIED UNTIL CAR IS INSPECTED
- FIRST TIME A CAR COMES TO TRACK/SERIES FOR THE SEASON IT NEEDS TO GO THROUGH TECH FOR A PRE RACE INSPECTION THAT NIGHT

**MISCELLANEOUS**

- FIRE BOTTLES MANDATORY AT THE START OF THE 2026 SEASON
- RACECEIVERS RADIOS ARE MANDATORY AND MUST BE WORKING DURING RACE EVENTS.
- TRANSPONDERS ARE MANDATORY AND MUST BE CHARGED AND WORKING IN THE CORRECT LOCATION FOR EVERY EVENT THROUGHOUT THE NIGHT
- HEAD & NECK RESTRAINTS ARE MANDATORY: MUST BE SFI RATED MINIMUM OF 38.1
- ANY AND ALL SUSPENSIONS INCLUDE WEEKLY TRACKS ON RACE DAYS. IF RACE IS CANCELLED OR TRACK NOT OPEN, THIS IS NOT INCLUDED
- DRIVER CAN NOT HAVE ANY ELECTRICAL DEVICES (EX: CELL PHONE, CREDIT CARD W/ CHIP) ON PERSON OR CAR DURING ANY RACE EVENTS. RACECEIVERS ARE ALLOWED.
- 1 IN CAR CAMERA ALLOWED IN CAR BUT CAN NOT FACE ANY SUSPENSION
- NO MAGNESIUM
- NO TITANIUM
- NO TRACTION CONTROL
- NO AIR SHIFTER
- NO DATA ACQUISITION SYSTEMS
- NO COCKPIT ADJUSTABLE DEVICES
- NO CARBON FIBER
- NO DRILLING OR HALLOWING OF ANY BOLTS AT ANY TIME
- NO RADIO COMMUNICATION IN CARS
- NO ALUMINUM BOLTS