



Afton Motorsports Park 2025 600cc Modified Rules

Tires

- ONLY AMERICAN RACERS WILL BE PERMITTED
- AMERICAN RACER – LR, FR, LF- 57/6.5 -10DT RR -61/10 -10DT
- NO DOCTOR PAD
- NO NEEDLING
- NO REGROOVING OF ANY TIRE WITH THE EXCEPTION OF RIGHT REAR BLOCK TREAD TIRE.
- GROOVING OF ORIGINAL TREAD PATTERN WITH #2 BLADE IS ALLOWED
- NO SIPING
- GRINDING OF TIRES AT TRACK IS ALLOWED WITH 36 GRIT SANDPAPER ONLY
- DUROMETER READINGS WILL BE TAKEN

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
- LR OFFSET: OUTSIDE OF LR TIRE TO FRAME BY LOWER INNER RUB RAIL
- (18 INCHES MAXIMUM FOR OLD STYLE CARS)
- (17 INCHES MAXIMUM FOR NEWER STYLE CARS)
- WHEEL WIDTH - 63 INCH MAXIMUM

Hubs

- Aluminum hubs only

Spindles

- STEEL SNOUT, 4 BOLTS TO HOLD STEERING ARM ON SPINDLES OR NEW SPINDLES & ARMS

STEERING

- MUST BE RACK & PINION STEERING
- NO ALUMINUM STEERING SHAFTS
- NO ALUMINUM U- JOINTS
- POWER STEERING WILL BE ALLOWED.
- No more than 12.5 degrees of tilt on the front axle. It will be measured at the steering arm. Connected to the spindle.

FUEL CELL

- MUST BE 3 OR 5 GALLON
- Vent Line must be secured to side and pointing down to track
- Fuel vent line requires one-way check valve

WEIGHT

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

RADIATOR

- STOCK FROM MOTORCYCLE ONLY

GEAR

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

SHIFT LIGHT

- All shift cables must be unhooked at the motor. NO SHIFTING.

BRAKES

- 2 PISTON CALIPER ONLY
- WILWOOD # 120-4062, AFCO #6630410
- ONE REAR BRAKE
- 10" MAXIMUM DIAMETER BRAKE
- DISC WITH 4 BOLT MOUNTING HUB
- 5/16 THICK MAXIMUM
- 3/4 IN. MASTER CYLINDER
- WILWOOD # 2606764, US BRAKE # 201-2512

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

GAUGES

- No AIM or Micron type gauge
- Tach is only gauge that can be connected to the wiring harness. Yellow with blue tracer wire.
- 3 gauges in a car
 - oil pressure
 - water temperature
 - tachometer
- Mechanical type gauges only. Digital gauges must be mechanical connections
- No more than 3 on/off switches in the car
 - First switch - on/off for engine
 - Second switch - fan or lights enabling sight to get in and fasten belts.
 - Third switch - helmet blower (ONLY)

BIRDCAGES

- ALL SINGLE BEARING BIRD CAGES AND NEW RR & LR
DOUBLE BEARING BIRD CAGES

WHEELBASE

- * 66 1/4 MINIMUM TO 67 3/4 MAXIMUM

MOTORS

- ALL MOTORS MUST BE SEALED IN ORDER TO RACE,
EITHER BY TOM SHINER OR XCEL SEAL.
- Stock from motorcycle, including injections, clutch, and black box.
- Unsealed engines will cause disqualification
- Altered or tampered seals in any degree will cause disqualification
- No aftermarket devices.
- • Honda CBR 600 only 2000-2006.
- • Suzuki GSXR 600 only 2000-2010.
- • Yamaha FZ09 only 2014-2020.
- • 599 cc - no cleanup.
- • Honda - stock fuel regulator only.
- • Suzuki - Kinzler adj. High speed bypass.
- • No pill block.
- • 12 volt battery only – see battery section for more
- • All wiring harnesses must be removable.
- • Tach Wire must be accessible to officials at all times.
- • Tach wire is Yellow with blue stripe
- YAMAHA 600cc ONLY IF SEALED ECU AND MOTOR, done by
Tom Shiner or XCEL
- VIN NUMBER MUST BE ON ENGINE
All motor numbers must be on the motors

BUMPERS & NERFS

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

MUFFLER

- BEYEA, SCHOENFELD

SPARK PLUGS:

- Any NGK Spark Plug Is Permitted
IF SEAL IS TAMPERED WITH, IN ANY SHAPE OR FORM, YOU
ARE DISQUALIFIED.
- NO AFTERMARKET DEVICES

EXHAUST

- MUST BE STOCK
- NO JET COATED HEADERS
- NO CERAMIC HEADERS
- NO STAINLESS-STEEL HEADERS

FUEL

- 110 Octane race fuel or pump gas permitted
- NO METHANOL
- NO ADDITIVES

FUEL PUMP

- FUEL PRESSURE 43 TO 51 FOR HONDA AND SUZUKI
- MALLORY #4060FI
- HOLLY RED
- WALBRO
- BLUE HIGH PRESSURE FUEL LINE ONLY

BATTERY

- GEL BATTERY WILL BE ALLOWED
- NO LITHIUM
- PLAIN 5IN. BY 7 IN. LAWN MOWER BATTERY

RADIUS ROD

- Front | Right: 11"
- Front | Left: 10 1/2"
- Rear | Right: 13"
- Rear | Left: 13"
- FRONT PAN HARD BAR 18 1/4
- BACK PAN HARD BAR 21 1/2
- BACK PAN HARD BAR 23
- NO SPRING RODS
- NO BUMP RUBBER RODS
- Left side back pan hard bar 25"
- No left side pan hard for yamaha

FRONT AXLE

- MUST PLATE ON AXLE
- ONE PIECE STEEL AXLE

SHOCKS

- IF SHOCK(S) IS NOT CRIMPED, OFFICIAL WILL CONFISCATE SHOCK(S) AND HAVE SHOCK(S) INSPECTED
- STOCK SHOCK NO ADJUSTING OF GASES
- BILSTEIN XCEL #1 OR DIG SPEC SHOCK OR PENSKE XCEL #2
- ALL CARS MUST HAVE ALL 4 BILSTEIN , ALL 4 DIG SHOCKS, OR PENSKE XCEL #2 ON EACH CORNER OF THE CAR NO MIXING OF SHOCKS, ALL 4 CORNERS SAME
- NO CUTTING SHOCKS APART OR CHANGING VAVLES
- NO SPRING SHIMS OR SPACERS
- SHOCK EXTENSION IS 1 INCH ONLY – BACK ONLY
- 4 INCH THREADED TUBE COIL KIT WITH BILSTEINS
- ONLY 4 SHOCKS PER CAR
- NO BUMP RUBBERS
- NO DRILLING AND/OR LETTING GAS OUT OF SHOCK
- DIG SHOCKS REBUILDABLE ONLY THROUGH DIG
- ILLEGAL SHOCKS WILL BE KEEP BY OFFICIAL
- REAR SHOCK MOUNT SLIDERS EXCEPTED

SPRINGS

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

BODY

- BODY MUST MEET XCEL 600 SPECS
- 4" MAX HEIGHT ON SPOILERS
- MUST MEET ALL TEMPLATES
- 6-2 1/2 INCH HOLES LF BOTTOM DOOR (AIR FOR ENGINE)
- HOLE IN HOOD FOR AIR 1 1/4 INCH BY 6 1/4 MAXIMUM
- OPTIONAL LOUVERS FOR AIR BOX 2 rows of 10 - 3" louvers
- 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

FRAME

- IF CHANGES ARE NOT APPROVED YOU WILL BE DISQUALIFIED
- 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

ECU

- ALL ECU BOXES MUST BE UNLOCKED WITH STOCK SETTINGS
NO EXCEPTIONS WE WILL BE CHECKING WEEKLY

MISCELLANEOUS

- *** RACECEIVERS RADIOS ARE MANDATORY AND MUST BE WORKING DURING RACE EVENTS. ***
- TRANSPONDER MANDATORY AND MUST BE MOUNTED IN STOCK LOCATION
- HEAD & NECK RESTRAINTS ARE MANDATORY
- MUST BE SFI RATED MINIMUM OF 38.1
- 1 IN CAR CAMERA ALLOWED IN CAR
- NO MAGNESIUM
- NO TITANIUM

- NO TRACTION CONTROL
- NO AIR SHIFTER
- NO DATA ACQUISITION SYSTEMS
- NO COCKPIT ADJUSTABLE DEVICES
- NO CARBON FIBER
- NO DRILLING OR HOLLOWING OF ANY BOLTS AT ANY TIME
- NO RADIO COMMUNICATION IN CAR
- ALL CARS MUST BE INSPECTED BY TECH BEFORE CAR IS PERMITTED TO RACE A CAR THAT IS NOT INSPECTED WILL BE DISQUALIFIED UNTIL CAR IS INSPECTED
- NUMBER / LETTER 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
- STOCK BOOTS
- AIR BOX COVER MUST BE ON CAR AND MUST HAVE FIRE SHIELD COVERING ENGINE BLANKET
- NO AIR INDUCTION SYSTEM AND/OR RAM AIR
- AIR FILTER MUST BE
 - GREEN-#2004
 - K&N - #33/2084
 - #33/2018
 - TWIN AIR
 - YAMAHA – RCO890
 - The New Xcel Air Box Will Be Permitted
- This is a spec class and will be teched as such in 2025. If a motor or shock is found illegal. You will lose all points up to the date. You were found illegal.

ENGINE PROTEST POLICIES

1. INCLUDED IN PROTEST ARE THE FOLLOWING:
 - a. ENGINE, WIRING HARNESS, BLACK BOX, EVERYTHING BUT HEADER AND AIR BOX
2. ALL PROTEST MUST BE IN WRITING TO AFTON MOTORSPORTS PARK WITH (SEE GENERAL RULES DOCUMENT) DOLLAR PROTEST FEE.
 - a. ONLY OWNERS CAN FILE AN ENGINE PROTEST
 - b. AN OWNER CAN PROTEST ONE ENGINE A NIGHT
 - c. TO PROTEST AN ENGINE, OWNERS CAR MUST HAVE FINISHED 7TH OR BETTER IN THAT NIGHT'S FEATURE
 - d. THE ENGINE THAT IS PROTESTED MUST HAVE FINISHED 7TH OR BETTER IN THAT NIGHTS FEATURE
3. INSPECTOR RECIEVES \$100.00 OF PROTEST MONEY NO MATTER OF THE OUTCOME
4. ALL ENGINE PROTEST ARE MANDATED TO BE PULLED AT TRACK THE NIGHT OF PROTEST
 - a. PROTESTED ENGINE WILL BE TAKEN THAT NIGHT AND WILL BE RETECHED
 - b. IF A PROTEST IS ON A TWO-DAY RACE EVENT, THE PROTESTED ENGINE WILL BE MARKED BY A OFFICIAL THE FIRST DAY AND WILL BE CONFISCATED AT THE END OF THE SECOND DAY
5. IF FOUND LEGAL:
 - a. OWNER OF PROTESTED ENGINE WILL RECEIVE (AMOUNT) AND RETURN OF ENGINE
6. IF FOUND ILLEGAL:
 - a. PROTESTER WILL RECEIVE \$400.00
 - b. OWNER OF ILLEGAL ENGINE RECEIVES MONETARY FINE AND SUSPENSION TO BE DETERMINED BY AMP OFFICIALS.