



## **RULES**

### **UCRA 602/SPORTSMAN SERIES**

*Double file re-starts for the 2017 season*

*RaceCeiver Required, NO other radios or communication equipment or mirrors allowed at any time.*

**A. BODY RULE: same as super late model.**

**1. 602 crate engine May run 12 in. spoiler and braces.**

**A. ALL STEEL NON Crate Engine may run 8" 50lb weight penalty**

**2. Weight.**

**A .602 crate engine must weigh 2350lbs.**

**B. ALL STEEL NON Crate engine must weigh 2400lbs.**

**3. ENGINE**

**RULE:**

**A. GM CIRCLE TRACK CRATE ENGINE.**

**B. ALL STEEL ENGINE.**

**C. P/N 88958602 "602"**

**Factory Engine Specifications – NEW**

**Horsepower 350@ 5000 rpm**

|            |   |                                     |
|------------|---|-------------------------------------|
| <b>rpm</b> | <b>Torque</b>   | <b>390@ 4000</b>                    |
|            | <b>Bore</b>   | <b>3.998"(+/.001")</b>              |
|            | <b>Compression Ratio</b>                                      | <b>9.1:1</b>                        |
|            | <b>Block Type</b>   | <b>Cast Iron</b>                    |
|            | <b>Casting Number</b>   | <b>See Note Below</b>               |
|            | <b>Deck Height</b>  | <b>9.025(+/-0.001")</b>             |
|            | <b>Crankshaft Type</b>  | <b>Cast Iron</b>                    |
|            | <b>Crankshaft Casting Number</b>                              | <b>14082586</b>                     |
|            | <b>Crankshaft Seal Type</b>                                   | <b>1 piece</b>                      |
|            | <b>Crankshaft Weight</b>                                      | <b>55.3 lbs.</b>                    |
|            | <b>Piston Type</b>  | <b>Cast Aluminum</b>                |
|            | <b>Diameter</b>   | <b>3.996"</b>                       |
|            | <b>Valve Relief Type</b>                                      | <b>4Reliefs</b>                     |
|            | <b>Piston Crown</b>   | <b>Dished</b>                       |
|            | <b>Piston Weight</b>  | <b>594 grams</b>                    |
|            | <b>Connecting Rod Length</b>                                  | <b>5.7"</b>                         |
|            | <b>Connecting Rod Weight</b>                                  | <b>604.15 grams (+/-10.0 grams)</b> |
|            | <b>Camshaft Type</b>  | <b>Hydraulic</b>                    |
|            | <b>Camshaft lift (int/exh@ value)</b>                         | <b>.435"/.460"</b>                  |
|            | <b>Camshaft Lobe Lift (int/exh)</b>                           | <b>.290/.306</b>                    |
|            | <b>Duration @ .050" (int/exh)</b>                             | <b>212/222</b>                      |
|            | <b>Cam Lobe Centerline</b>                                    | <b>112.5 degrees</b>                |
|            | <b>Rocker Arm Type</b>  | <b>Stamped Steel</b>                |
|            | <b>Rocker Arm Ratio</b>                                       | <b>1.5</b>                          |
|            | <b>Head Gasket Type</b>                                       | <b>Composite/Steel</b>              |
|            | <b>Thickness</b>  | <b>0.028</b>                        |
|            | <b>Cylinder Head Type</b>                                     | <b>Iron Vortex</b>                  |
|            | <b>Casting Number</b>   | <b>12558062</b>                     |
|            | <b>Valve Size int/exh</b>                                     | <b>1.94"/1.50"</b>                  |
|            | <b>Combustion CC's (+/-1-2 cc)</b>                            | <b>64</b>                           |
|            | <b>Intake port CC's (+/-1-2 cc)</b>                           | <b>170</b>                          |
|            | <b>Exhaust Port CC's (+/- 1-2 cc)</b>                         | <b>60</b>                           |
|            | <b>Normal Oil Pressures</b>                                   | <b>40 psi. @ 2000 rpm</b>           |
|            | <b>NOTE: 602 Engines have casting #'s10243880 OR 14093638</b> |                                     |

**ALL OTHER SPECIFICATIONS REFER TO GM  
MANUAL**

**4. OPTIONAL ENGINE**

No hobby motors, 602 Crate engine, or engines built on 602 specs. Vortec heads, 602 camshaft. .030 over bore .020 deck

- A. All steel motor
- B. Stock straight plug heads(Must have stock valve size)
- C. Stock Crankshaft, stock rods, 4 eye brow dishtop pistons
- D. Hydraulic camshaft GM 602 only
- E. Must pull 18 inches of vacuum @ 1400 r.p.m.

**CARBURETOR:**

- A. One four-barrel carburetor only of any manufacture.
- B. NO turbo-chargers, blowers or fuel injections.
- C. All engines must be naturally aspirated.
- D. Two inch carburetor spacer allowed.

**WATER PUMP:**

- A. No electric water pump.

**FUEL PUMP:**

- A. NO electric fuel pump.

**DISTRIBUTOR:**

- A. Any HEI factory distributor, OEM factory HEI or OEM factory point distributor's, MDS distributor, and 6AL box with \$100.00 swap claim rule.
- B. No outside coils or power boxes must bolted in stock position.

**ENGINE SETBACK:**

- A. Engine setback will be 6" inches from center of top ball joint to the most forward spark plug. 1 inch tolerance on engine setback.

**B. Engines may be crossed from one manufacturer's line to another Example: Chevrolet in a Ford, Pontiac, etc.**

***FRAME:***

- A. All frames must be of steel construction.**
- B. Square or rectangular frame must have a minimum of 2" by 2" material, .083-wall thickness.**
- C. If round tube frame, tubing must have a minimum of 1-3/4" outside diameter, .083 wall thickness.**

**Shocks**

- A. Must run non adjustable steel body shocks, (aluminum body non adjustable shocks allowed.**
- B. No Schrader Valve Shocks Allowed.**
- C. No Piercing Valve Allowed.**
- D. No External way to add gas pressure to shock, in any form.**
- E. No Double Stack Springs.**
- F. One Shock per wheel and One Spring Per Wheel Per Race.**
- G. External Bump Stop Right Front Only.**
- H. \$200.00 claim rule on shocks; may claim one shock per wheel, per race, with exchange. Exchange meaning same shock as claimed. Exchange shock must have been entered in Race. No None functional shocks to be exchanged.**
- I. Must finish in Top 5 in lead lap to Claim Shock.**

***WHEEL BASE:***

- A. Minimum wheelbase will be 103" inches. Right Side Only.**

***ROLL CAGE:***

- A. All cars must have a suitable steel roll cage protecting the driver's compartment, including headrest.**
- B. Side roll bars are mandatory, and must extend into the door panels. A minimum of three (3) bars must be used on the left side.**

C. Each bar must be at least 1- ½” in diameter, with a minimum material thickness .083”.

D. Roll cages must be welded to frame.

***BODY:***

A. Same as Super Late Model specs.

B. NO mirrors, radios or communication equipment allowed in car at any time.

***SAFETY:***

A. All cars must have 3” inch seat belts with shoulder harness and must be attached to roll cage. And must worn at ALL times.

B. We strongly recommend that all cars have an approved fire extinguisher system, securely mounted, within easy reach of the driver.

C. A 5 lb. Halon System is recommended.

D. All drivers must wear a complete fire suit.

E. Full Containment Seat 25lb Weight Break.

F. Plumbed Fire Extinguisher System 25lb Weight Break.

***NUMBER:***

A. Number must be at least 18” inches high and on both sides and top of car.

B. All cars must have a number.

***EXHAUST/MUFFLERS:***

***MUFFLERS 25 LBS WIEGHT BRAKE***

A. Dirt Pro Muffler or Borla Muffler .

B. NO modifications and/or alterations to mufflers will be allowed.

C. Collector type headers required.

D. All cars must register under 100 decibels.

E. NO deliberate air leaks, vents, holes, etc.

F. Any car that loses a muffler will automatically be disqualified.

***BRAKES:***

A. Four-wheel disc brakes permitted.

B. NO carbon fiber brake parts permitted.

***FUEL CELL / FUEL:***

- A. An approved fuel cell (32 gallon maximum) must be securely mounted in the trunk area of the car, inside a .20 gauge metal box supported by a minimum of two 2" inch by 1/ 8" inch steel straps.
- B. All fuel cells must be completely visible from rear of car.
- C. Fuel cell must not be mounted lower than bottom of quick-change rear end.
- D. Gas and E85 Flex Fuel – NO alcohol – NO nitrous oxide, nitro methane or other nitrate additives.
- E. NO propylene oxide.
- F. Gas must not check above + 5 or – 5 on electronic fuel checker when calibrated with tracks racing gas.
- G. Gas must pass acid test.

***TRANSMISSION:***

- A. Must have at least one forward and one reverse gear in working order.
- B. NO straight drives or in and out boxes.

***WHEELS:***

- A. Any brand or type of wheel allowed must be mounted with lug nuts.
- B. NO knock-off or center locks wheels.
- C. Maximum wheel width – 14" inches.

***TIRES:***

- A. Hoosier 1350, 1450 Right Rear Only, 1600, D-21, D-55, Spec 21 Spec 55, or Crate 21, Crate 55 or American Racer MD 48, MD 53 Right Rear Only, 56 or Goodyear G40
- B. Tires must have all numbers and name on the tire No grinding off of numbers or names, any tire that has been altered will be illegal.
- C. No tire softener, tires will be randomly checked before and / or after race and must punch minimum of 48 (hot or cold) on track durometer.
- D. Tires available at the Track (256) 623-RACE (7223)

Any item not listed in protest fees is considered a visual protest item and must be protested before race and not after.

Any crate engine protested must be reassembled and resealed by one of the Authorized Repair/Rebuild Centers.

## ***PENALTIES FOR CRATE ENGINE INFRACTION***

### ***1ST Infraction***

**Disqualification of race, = 0 points, \$0.00 in prize money won during the race, 30-day suspension from Fort Payne Motor Speedway and a \$300.00 fine.**

**The \$300.00 fine must be paid before you can return to competition.**

### ***2nd Infraction***

**Disqualification of race, = 0 points, \$0.00 in prize money won during the race and suspension from Fort Payne Motor Speedway for the remainder of the current season.**

**For questions contact Fort Payne Motor Speedway:**

**(256) 623- RACE (7223) or**

**Tim (256) 398-6847, Marvin (706) 346-3385**

***Track reserves the right to delete, change, or amend rules in the interest of competition***