



# 2024 Riverhead Crate Modified Rules

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## **Personal Equipment**

1. All drivers must have a full-face Snell 2015 rated or better helmet. In good condition.
2. No M rated helmets.
3. Fire suit gloves and shoes SFI rated 3.2A-1 or better mandatory
4. AMB 260x, MyLaps Flex or MyLaps X2 transponder mounted a minimum of 12" behind the rear axle on the passenger side.

**THE RIVERHEAD MODIFIED CRATE DIVISION WILL FOLLOW ALL RULES FOUND IN THE CURRENT NASCAR WHELEN MODIFIED TOUR RULEBOOK EXCEPT THE FOLLOWING RULES:**

## **BATTERY**

1. Battery must weigh a minimum of 17lbs.
2. Gel or Glass Mat type battery may be used.
3. Any battery used must be a 12-volt battery ONLY!

## **BELLHOUSING**

1. Only a commercially manufactured magnetic steel bell housing may be used.
2. Bell housing must enclose the flywheel 360 degrees with a minimum 3/16" magnetic steel
3. Any modifications to the bell housing must be done with 3/16" magnetic steel (no bolt on pieces)
4. An opening no larger than 3 1/2" by 4" may be used for throw out bearing access but must be covered by sheet metal.
5. Commercially manufactured bell housings like Quartermaster #008110440, with a bolt on bottom cover may be used.

## **BODIES**

1. All body panels, except hood, must be made of aluminum or magnetic steel per
2. NWMT Rulebook



## **BRAKE COMPONENTS**

1. Only single stage master cylinders are allowed.
2. Brake calipers with a maximum of 4 pistons are allowed.
3. Each brake caliper's pistons must all be of equal size.
4. Each brake caliper may not exceed a racer net price of \$265.
5. No floating rotors.

## **COMPETING MODELS**

1. Approved model bodies as per the NWMT Rule book

## **CLUTCH / FLYWHEEL**

1. Stock OEM dimension steel flywheel for engine only. No aluminum flywheels permitted.
2. OEM type steel pressure plate and steel disc only.
3. Solid type disc only, no paddle or button type discs. b. Minimum diameter 10" clutch and pressure plate.
4. Drilling or lightening of any part not permitted. Flat surface matching is allowed only on the face of the flywheel and any cutting on the backside of the flywheel is not permitted.
5. Steel bolts only.
6. The following weights are the minimum for each part:
7. Flywheel only, no bolts – 14.5 lbs.
8. Pressure plate, cover and solid disc – 16 lbs.
9. Steel solid disc. No bolts, must weigh a minimum of 2.5 lbs. and a maximum of
10. 3.8 lbs. after the combined weight has been determined.

## **COIL OVER SHOCKS**

1. FRONT: Pro Shocks # TA55 1/2B- ONLY
2. REAR: Pro Shocks # TA74 1/2B -ONLY



## **ENGINE OIL**

1. Any type of combustion enhancing oils or additives are strictly prohibited. Oil filters must be mounted in the stock location. No remote oil filters or oil cooler.
2. It is strongly recommended that you do not use the engine side panels.

## **EXHAUST SYSTEM**

1. The following part numbers are the only headers permitted. All headers must remain unaltered and exactly match the SMS factory sample headers.
2. Troyer Chassis – Kooks #SMS1033 or Flowrite #SMS 25
3. Raceworks Chassis – Kooks #SMS1033 or Flowrite #SMS 45
4. Chassis Dynamics Chassis- Kooks # SMS 1435 or Flowrite #Sms 35 d.  
SPAFCO Chassis - Flowrite # SMS 55
5. Flowrite Muffler #FR300 must be used.

## **ENGINE**

1. GM 602 Crate Engine will be used with a Holley 650 cfm, Part # 0-82651 carburetor and any
2. 1" aluminum (only) spacer.
3. It is mandatory that ALL crate engines be purchased and sealed by Riverhead Raceway.
4. All engines must remain as delivered by General Motors including: harmonic balancer, distributor, valve covers, springs, rocker arms, seals, etc.
5. It is strictly forbidden to tamper with the factory and/or Riverhead Raceway seals in order to gain access to the internal workings of the engine. Anyone caught tampering with the factory and/or Riverhead Raceway seals shall immediately have their engine confiscated by Riverhead Raceway and fined \$1,000.
6. These crate engines are considered to be non –rebuildable and non-repairable. In the event that an engine sustains internal damage or wear that requires removal of one or more seals, the engine is then said to have served its life and must be discarded and a new one obtained!
7. Any sale of a crate engine has to take place with a Riverhead Raceway Tech Official present.



## **Carburetor**

1. Unaltered Holley 650 CFM, part number 0-82651 or 0-82651SA are the only legal carburetors!

## **Butterflies :**

1. Idle holes may be drilled in the butterflies.
2. Screw ends may be cut even with the shaft, but the screw heads must remain standard.

## **Carburetor Spacer / Gasket:**

1. The carburetor spacer must be a maximum of up to one inch thick. b. Any aluminum spacer is allowed.
2. No sandwich type or insulator type gaskets permitted. The maximum gasket thickness shall be .065

## **Ignition System:**

1. Stock ignition systems only that are supplied with the 602 Crate. b. Distributor must remain unaltered.
2. Engine must retain stock firing order. d. No traction control permitted.
3. An MSD # 8727 CT or # 8728 External RPM limiter with a 6000-RPM chip is mandatory.
4. The violet wire must be cut back flush to the unit's housing.
5. The green and the white wires must run directly to the coil negative.
6. The MSD #8727 CT or the #8728 must be mounted on the engine side of the firewall in plain view.
7. RCM Officials may require the replacement of the 6000-RPM chip with an RMC supplied chip at any time during an event.
8. RPM limiters must be fully functional and operational at all times.

## **FUEL CELL**

1. Must meet NASCAR NWMT Specifications. It is highly recommended that the fuel cell bladder be no more than 6 years old.



## **IDENTIFICATION AND MARKINGS**

1. All numbers are assigned by the raceway office.
2. One or two digit numbers only.
3. No letters permitted.
4. Officially issued numbers must be at least 18 inches high and neatly painted on both sides of the car, on the center of the door.
5. The number must also be painted on the front, rear, and roof of the car.
6. Car make must be painted on the roof directly over the front windshield.
7. The driver's name must be painted on the car roof over the door on the right side.
8. Silver or gold foil decals are not permitted.

## **INTERIOR / FIREWALL SHEET METAL**

1. Interior and Firewall **MUST** be magnetic steel per NWMT Rulebook.

## **REAR END**

1. A standard weight / manufactured 10" quick – change.
2. Ultra-light or lightweight rear ends or components are not permitted.
3. Aluminum Spools and Magnesium Bells allowed
4. Driveshaft must be magnetic steel.
5. No straight rear ends allowed
6. Axles must weigh 7lbs or more

## **TRANSMISSION**

1. Only OEM production 3 or 4 speed transmissions allowed. No top loaders. Gear ratio must be stock OEM production.
2. Only stock OEM factory housings allowed.
3. Only OEM type, steel angle cut forward gears are allowed. Square cut gears are not allowed.
4. Removal of first gear or replacement of first gear with a metal spacer, in a 4-speed transmission is allowed. All other forward and reverse gears must be in working order and they must be operational from the inside of the driver compartment. All transmission gears must have a constant



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engagement of the input shaft with gear and countershaft with cluster gears.

5. Five speed transmissions with gears removed are not allowed.
6. Quick change transmissions are not allowed.
7. Automatic or semi- automatic transmission are not allowed.
8. Machining or lightening of any internal rotating or non-rotating part(s) including gears, shaft, etc. not allowed.

### **WATERPUMP / ALTERNATOR**

1. Any serpentine, cog, or v-belt pulley system allowed.

### **WHEELS**

1. Eight (8) inch or ten (10) inch rims permitted. All four rims must be the same width on the car.
2. Steel wheels only.
3. All cars must maintain the following tread width requirements, a minimum front and rear tread width of 82 inches, and a maximum tread width of 83.25" will be permitted. the tread width will be determined by measuring the left outside wheel bead surface to the right outside wheel bead surface at spindle height.
4. Length of wheelbase shall be 107" inches.

### **Tires**

1. Riverhead Raceway approved 8" tire!!
2. See tire Policy.

### **WINDSHIELD**

1. Windshield must be NASCAR flat type and material per NWMT Rulebook



## **WEIGHT**

1. All cars must weigh a minimum of 2,630 lbs. with the driver and race gear after the race. (No fluids may be added)
2. A time trial/impound race will require all cars to weigh 30 lbs. more when presenting a car for pre tech. 2660 lbs. is the minimum pre tech weight for a time trial or impound race.
3. Maximum left side weight is 56%.
4. Added weight must be of solid steel or solid lead, no less than 5 lbs. All weight must be painted white with the car number in black. All weight must be securely bolted to the frame rail only.