

Thunder Valley Speedway

Stock Class Rules 2023

*****Will require a mandatory transponder. You can buy them online or we have them available as well at Crown Motors in Wasilla at 201 w. Parks hwy.***

PASSENGERS IN ALL CLASSES INCLUDING DEMO IS NOT PERMITTED

Vehicle Type and Wheelbase

- Vehicle is **required** to be a full or mid size American made car or truck.
- Vehicle is **required** to have a stock wheelbase of 101" wheelbase +/- 1".
- Vehicles are **required** to be rear wheel drive only.

Safety Equipment

- Fire Suit is **mandatory** for all vehicle occupants.
- All race vehicles are **required** to have fire extinguishers mounted within drivers reach when strapped into the vehicle.
- 5 Point restraint harness is recommended, at minimum 4 point harness or racing style restraints are **required**.
 - Harnesses are **required** to be securely mounted.
- All race vehicles **require** a driver's window net.
 - PASSENGERS ARE NOT PERMITTED
- Drive shafts are **required** to be painted white or bright color and have a safety loop.
- Batteries are **required** to be securely mounted and covered.
- All switches are **required** to be securely mounted and labeled.
- All race vehicles are **required** have functioning brakes
- Drivers and passengers are **required** to wear a helmet with eye protection.

Roll Cage Requirements

- 4 Point full width cage minimum is **required**. Roll cage is also **required** to be mounted to the frame.
- Minimum tubing size is 1.25 inch ID schedule 40 pipe.
- The Driver's side is **required** to have a minimum of 3 horizontal bars, and two horizontal bars on the passenger side.
 - If a vehicle is equipped with a passenger seat, the passenger side is **required**

to have a minimum of 3 horizontal bars.

- The drivers main loop is **required** to be over their head, and **required** above passengers head **if** equipped.
- If the roll cage is mounted to unibody, frame mounting plates must be utilized. Self tapping bolts or screws are not permitted.

Body

- All glass and plastic is **required** to be removed.
- May radius fenders for clearance. Sharp edges are not permitted.
- Body is **required** to be stock sheet metal, or aluminum.
- Aftermarket body panels are not permitted in a stock apparel event
- Reflective devices and mirrors are not permitted.
- Bodies may be stripped of inner metal.
- Homemade noses are permitted. Wings are not permitted.
- Spoilers no taller than stock are not permitted.
- Firewall is **required** to stay in stock location.
- Side bars no bigger than 1.25 Inch ID are permitted with a maximum of 1 inch away from body, must be smooth radius and terminate at least 3 inches into body with no sharp edges.
- Headers are permitted to go outside of the fenders.

Bumpers

- Bumpers are **required** to be stock or homemade using an acceptable race car design with full nose piece cover.
 - Aftermarket bumpers are permitted for front and rear.
- Bumpers are **required** to be securely attached, and may be reinforced with black iron pipe
- Reinforcements are **required** to be a smooth radius that terminates at least 3 inches inside the body.
- Nerf bars are allowed. Smooth edges are **required**.
 - Discretion is up to the tech official.

Frame

- Frame is **required** to be of parent manufacturer.
- Attachment points for wreckers are **required** to be present at both the front and rear of the vehicle.

Front End Suspension

- **Required** to remain stock in appearance, and components are also **required** to remain in stock location.
- Alterations to the front end except for aftermarket upper A arms are not permitted.
- Weight jacks are permitted, as well as the use of an adjustable sway bar.

- Reinforcing is permitted and not considered a modification.

Differential- Rear End Suspension

- Stock Differential only, not limited to parent manufacturer.
- Stabilizer bar from top of differential to frame is permitted.
- Alterations aside from reinforcing are not permitted.
- Shocks are **required** to stay stock and in stock location.

Engine

- Engines are **required** to be of parent manufacturer.
- Engines are **required** to have battery operated ignition.
- 200 LBS maximum compression permitted.
- Engines are **required** to have a stock cast iron block. Cast Iron LS Engine permitted.
- OE aluminum heads or OE replacement aluminum heads permitted.
- Use of superchargers, non OEM electronic fuel injection and turbochargers is not permitted.
- Single naturally aspirated carburetor, as well as OEM electronic fuel injection is permitted.
- Engines are **required** to remain in stock location, no set back allowed.
- Non OEM block's are permitted.
- Light weight and aluminum blocks are not permitted.
- Use of roller cams permitted.

Transmission

- Stock automatic transmission with torque convertor or standard transmission with clutch and pressure plate is permitted.
- Functioning forward and reverse gears are **required**.
- **Required** to be self starting out of gear, and **required** to be able to shift into gear while running.

Fuel- Fuel tanks

- Gasoline only.
- Fuel cell use is recommended.
- Fuel cell is **required** to be securely mounted in the trunk area and have a spill check valve.
- All vehicles **require** a firewall between driver and fuel tank.

Tires and Rims

- Snow, or studded tires are not permitted.
- Tires must not have tread wide than 8 Inches

- 10 Inch maximum width rims permitted.
- Beadlocks permitted.
- Tire grooving permitted.

Numbers

- All race vehicles are **required** to have numbers on both sides of the vehicle, and on the roof.
- Numbers must be legible from the timing tower and of contrasting color to paint scheme.

Weight

- Vehicles are **required** to be a minimum of 2800 LBS coming off the track with the driver.
- Any weights added to the vehicle are **required** to be securely mounted and clearly marked with the vehicle's number.

Entry Fee

- \$40 EXCEPT FOR SPECIAL EVENTS