

# Thunder Valley Speedway

## Mini Stock Class Rules 2024

**PASSENGERS FOR ALL CLASSES INCLUDING DEMO IS NOT PERMITTED**

### Vehicle Type and Wheelbase

- Vehicle is **required** to be an American made or an import car with a front engine.
- Vehicle is **required** to have a stock wheelbase of 101 inches or less.
- Rear Wheel Drive vehicles are permitted
- All wheel drive vehicles and front wheel drive vehicles are not permitted.

### Transponders & RACEceivers

- RACEceivers are not mandatory, but they are highly recommended.
- Transponders will be mandatory
  - Those running without one will not time in and will run in the rear.

### 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 are **required** to use 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** to have functioning brakes
- Drivers are **required** to wear helmets with eye protection.

### Roll Cage Requirements

- 4 Point full width cage minimum is **required**.
- Minimum tubing size is 1.25 inch ID schedule 40 pipe.
- **Required** to have a minimum of 2 horizontal bars on the driver's side and two horizontal bars on the passenger side.
  - Passenger side is **required** to have a minimum of 3 horizontal bars if

equipped with a seat.

- Main loop is **required** to be over the driver's head.
- Roll cage is **required**
- If roll cage is mounted to a unibody, frame mounting plates are **required** to be used. Self tapping bolts or screws are not permitted.

### **Body**

- All glass and plastic are **required** to be removed.
- May raise fenders for clearance. Sharp edges are not permitted.
- Aftermarket sheet metal or bodies, as well as aluminum body panels are permitted.
  - Wings, wedges or tunneling are not permitted.
- All bodies are **required** to be in stock centered location and panels are **required** to be present and securely attached at the start of each race day.
- Stock firewalls and floors are **required** to stay in their stock location.
- Side bars no bigger than 1.25 inch ID round pipe is permitted, and are **required** to return to the cage or frame.

### **Bumpers**

- Bumpers are **required** to be stock or homemade using acceptable race car design.
- Bumpers are **required** to be securely attached,
- Bumpers may be reinforced with black iron pipe.
- Reinforcements are **required** to be a smooth radius that terminates at least 3 inches inside the body.

### **Frame**

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

### **Front End Suspension**

- **Required** to remain stock in appearance, and components are **required** to remain in stock location.
- Weight jacks are not permitted. Use of an adjustable sway bar is permitted.
- Use of panard bar or chain is permitted.
- Reinforcing is permitted and not considered a modification.

### **Engine**

- Battery operated ignition or an MSD ignition is permitted.
- Engine is **required** to be 4 cylinder inline, front mounted.
- Engine is **required** to have a maximum displacement of 2.6 L
- Engine is **required** to use stock blocks and heads.
- Use of aftermarket headers is permitted

- Naturally aspirated single carburetor, factory fuel injection, or OEM electronic fuel injection is permitted.
- Aftermarket fuel injection, superchargers and turbos are not permitted.
- Engine is **required** to remain in stock location. Set backs are not 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 must be able to shift into gear while running.

### **Fuel- Fuel tanks**

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

### **Tires and Rims**

- Snow or studded tires are not permitted.
- Maximum 8 inch wide rim.
- Steel wheels only are permitted.
- Beadlocks are 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 weigh a minimum of 2000 LBS coming off the track with the driver.
- Any weight added to the vehicle is **required** to be mounted and clearly marked with vehicle number.