



# QUICK ROD

## Quick Rod

### Quick Rod Rules

- Designation: Q/R, preceded by car number.
- ET Standard: 8.90 ¼-mile or 5.70 1/8<sup>th</sup>-mile index
- Starting System: Heads-up, .400 Pro Tree
- 64-car qualified field
- Eligible Vehicles: Dragsters, alteredds, roadsters, Funny Cars, Pro Stock-type cars.
- Prohibited: Motorcycles.
- Minimum Weights:
  - Standard cars: 1,350 lbs. (including driver).
  - 4- and 6-cylinder cars: 1,000 lbs.
  - Dragsters with naturally aspirated OEM motorcycle engines (2–4 cylinders) & OEM transmission: 700 lbs.

### REQUIREMENTS & SPECIFICATIONS

#### Engine

- Harmonic Balancer: SFI 18.1 not required for rear-engine dragsters with naturally aspirated OEM motorcycle engines.

#### Fuel

- Nitrous Oxide: Permitted
- Any gasoline or methanol permitted. Nitromethane not permitted

### DRIVETRAIN

Clutch, Flywheel, Flywheel Shield, Chain Guard

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- Aftermarket billet flywheel or IHRA-accepted flywheel shield mandatory.
- Prohibited: Stock steel or cast aluminum flywheels.
- Allowed: Keyway modifications, centrifugal/slider/conventional motorcycle clutches.
- Chain Guard:
  - Must cover entire top run and centerline of sprockets.
  - Minimum materials: .060" steel or .090" aluminum.
  - Must be within 4 inches of the chain.
- Belt Drive: Permitted.

### Transmission

- For rear-engine dragsters with OEM motorcycle engines & OEM transmissions:
  - Can be shifted by timed/rpm-activated electrical, mechanical, pneumatic, or hydraulic device.
  - Rpm-based shifters cannot include time delay or connect to delay box/device.
  - Time-based shifters cannot connect to ignition system.
  - Reverse Gear: Optional.

## BRAKES & SUSPENSION

### Brakes

- Cars  $\leq 1,000$  lbs. with one-piece rear axle may use a single rotor with dual calipers.

### Steering

- Butterfly wheel allowed for front/rear-engine dragsters and alteredds.

### Traction Bar Rod Ends

- Must use  $\frac{3}{4}$ " minimum steel rod ends on all ladder/four-link bar fronts.

## FRAME

### Deflector Plate

- Required between roll cage and engine in rear-engine cars.
- Materials:  $\frac{1}{8}$ " aluminum or .060" steel minimum.

### Pinion Support

- Mandatory for front-engine cars.

### Wheelbase & Tread Width

- Minimum Wheelbase: 90 inches.
- Max Left/Right Variation: 2 inches.
- Minimum Front Tread Width: 26 inches for dragsters.

**TIRES & WHEELS****Tires**

- Minimum front tire diameter: 13 inches.

**Wheels**

- Wire wheels allowed on dragster fronts only if total car weight (excluding driver)  $\leq 1,800$  lbs.
- Minimum front wheel diameter: 5 inches.

**BODY****Air Foils**

- Permitted. Front spoiler/air dam can't project more than 30" ahead of front-spindle centerline.

**Body**

- Must be metal, fiberglass, or carbon fiber.
- Must extend to firewall.
- Must prevent driver contact with wheels, tires, exhaust, or track.
- If body contact with belly pan: subfloor and crossmember required.
- Hood Scoop Limits:
  - Full-bodied cars:  $\leq 11$ " above hood surface.
  - Open-bodied, front-engine cars:  $\leq 11$ " above carburetor top.

**Fenders**

- Required on full-bodied cars.

**Spoilers/Wings**

- Non-OEM wings allowed.
- Must be permanently affixed and nonadjustable during run.

**Driver Safety Requirements**

- Arm Restraints:
  - Mandatory in open-bodied cars.
- Credentials:
  - Valid IHRA Quick Rod license required.
- Helmet Requirements:
  - Closed-bodied cars: Full-face helmet, Snell (M2015, M2020, SA2015, SA2020) or FIA (8860-2010, 8859-2015, 8859-2024, 8860-2018).
  - Open-bodied supercharged/turbocharged cars: Same as above, full-faced and shield mandatory.

- **Open-bodied naturally aspirated gasoline/methanol: Full-face and shield mandatory; goggles prohibited.**
- **Neck Collar:**
  - **SFI Spec 3.3 neck collar mandatory.**
- **Protective Gear:**
  - **Jacket & pants: SFI 3.2A/5 or 3.4/5, gloves: SFI 3.3/1 (minimum).**
  - **Supercharged/turbocharged alcohol-burning vehicles and/or vehicles with auto trans inside driver compartment:**
    - **Jacket & pants or suit: SFI 3.2A/15.**
    - **Gloves & footwear: SFI 3.3/5.**
  - **Open-bodied cars without SFI 3.3 neck collar:**
    - **Must use SFI 3.3 head sock or skirted helmet.**