

## DEMOLITION DERBY SMALL STOCK CAR RULES

ALH Motor Speedway

All cars must remain stock.. No convertibles permitted. Maximum engine size of 4 cylinders stock to car.

### **General:**

- All glass and plastic must be removed. Remove everything from the bottom of the doors and trunks. Remove backseats. Remove metal header panels. All hardware must be removed including headlights, taillights, door handles; mirrors, chrome, molding, fiber glass, any trim, hitches, etc.
- ABSOLUTELY NO added weight or metal to the car. No buffing, grinding or packing the frames/subframes, trunks, doors, bumpers or under the floor or anywhere else on the car
- Mufflers, converters, gas tanks and exhaust systems must be removed
- Air condition pumps may remain only if required for drive belt routing and system emptied
- OEM body to frame mounting hardware permitted only
- No 2 piece drive shafts allowed, only use one piece draft shaft OEM style. If driver's car has a factory hanger bearing style, it will be allowed
- Anything not specifically mentioned in these rules, must remain stock
- Optional exhaust routing (e.g. may run stacks through hood)
- No frame modifications
- No halo bars
- No bolts permitted through the frame/subframe of the car, i.e. gas tanks, battery boxes, trunks, hoods, etc.
- No tilting or welding of seams on frame or anywhere
- Frames must be stock to year of the body
- winning cars may be re-inspected before payouts.

### **Tires:**

- ONLY passenger ("P") or light truck ("LT") tires are permitted
- No studded tires
- All wheel weights must be removed
- No bolting of wheel wells
- Wheel well may be cut but no sharp edges
- Tires must be filled with air only (no double tires, no filling with rags, foam or any other substance except air)
- no very aggressive tires, derby is on the track surface. if we tear it up we can't do it again.

### **Bumpers**

- No bumper swaps allowed
- Bumpers must remain in stock position
- No welding or reinforcement
- Secure bumpers with chains
- May cut a hold in front and rear bumpers to run a chair through or wrap chair around bumper
- If bumper ends are cut, bend bumpers in if there are sharp edges
- No welding of bumper shocks

### **Doors:**

- Doors to be bolted or chained shut
- Driver door must be painted white with ID number clearly painted on it
- Driver door bar is mandatory, passenger door bar is optional
- Driver door bar may be placed on the exterior or interior of the car, not both

- Driver door bar is approx. ¼ “ C channel, 8” wide and may extend up to 6 inches on either side of door seams (No grader blades allowed)
- Driver door may have netting where glass was removed

#### **Radiators:**

- Radiators must remain stock and in original position and may contain water only (no coolant or antifreeze)

#### **Transmission Cooler:**

- Transmission cooler may be under the hood or in the driver’s compartment
- Transmission cooler may be cooled with normal ice.

#### **Hoods:**

- Hoods must have 2 holes up to 12” x 12” on both sides of carburetor for fire purposes.
- To secure the hood may use maximum of 4 bolts (Maximum 1”) and 2 chains single loop. The 2 front bolts may be used to secure the hood through frame in radiator cradle area
- No hood bolts can pass through or on the bumper
- Hoods must remain stock, in stock position and mounted to stock hinges
- Must have a hole to expose air breather – minimum 8” diameter
- Must have hoods open for inspection

#### **Trunks**

- To secure the trunks may use maximum 4 bolts (Maximum 1”) and 2 chains, single loop
- No bolts can pass through or on the bumper
- Maximum washer plate is 5 x 5 x ½”
- Must have 10 x 10” hole in trunk for inspection

#### **Engine and Transmission:**

- Motor mounts may be chained or welded and factory size
- No truck rear ends allowed
- Differential gears may be welded to make posi (as a result both wheels turn simultaneously)

#### **Brakes:**

- All cars must have working brakes. This will be checked before entering the track

#### **Interior:**

- All seats and trim must be removed from the interior of the car, except the driver’s seat
- The driver’s seat must be securely mounted to the floor
- All cars must run a cross bar behind the driver’s seat from one side of the car to the other using a maximum 4 inch tubing/pipe and fastened to plates on either side maximum 6” x 6”
- May install a head post behind driver’s seat mounted from floor to Dash Bar:
- Dash bar optional
- bolted to steel metal/body only A pillar area, not bolted to frame

#### **Windshields:**

- optional
- The windshield may be removed and in front of the driver’s seat area must securely fasten metal mesh or 3 bars for the driver’s protection

#### **Batteries:**

- May use 24 volt set up (maximum 2 batteries)
- Batteries must be in a wooden or double strapped box on passenger seat/floor area securely mounted to the floor and covered with a splash guard
- Must have on/off switch

#### **Gas Tanks:**

- Original gas tanks must be removed from the car

- Use a metal boat tank (no jerry cans) securely mounted in the rear seat area and may be attached to rear cross bar
- Use only gas lines made for gasoline
- Protect rubber fuel lines with a piece of heater hose when it passes through the floor or fire wall
- Electrical fuel pumps must have an on/off switch clearly marked within driver's reach or be tied into the ignition.

**Suspension:**

- Suspensions parts cannot be modified, including tie rod ends and ball joints
- Shock overload must be cut
- No adding reinforcements
- Rear end coil springs can be chained to the differential, not to body in anyway
- OEM leaf springs clamps can be used, maximum 2 per side
- No hose clamps or muffler clamps allowed on leaf springs
- No truck leaf springs allowed
- No coil leaf conversions permitted
- No bolting to the frame
- Suspension must have "bounce"

**Welding:**

- There is NO welding permitted on the car
- The only exception is driver may choose to weld motor mounts and differentials to make posi

**Painting:**

- Driver's door must be painted white
- Driver's number must be clearly painted on each door at least 12 inches in height
- Driver's ID number on the doors must be in good taste and family show friendly
- No white cars allowed
- No foul language or offensive words will be allowed on the cars

If the rules don't say you can do something to your car, then don't do it Judges' decisions are final and are based on drivers' safety as well as making sure that one car doesn't have an unfair advantage over other competing cars