



Total Destruction Derby Rules

This is a midsize/compact demolition derby. It should be seen as bone stock/entry level though these rules have been updated to allow for hardcore builders to have some fun as well. They are still very similar to the older rule set, now more detailed and will be enforced. We encourage stock looking builds fans want to see bent cars that they recognize. These rules are intended to create a fair class of derbies that are also competitive and fun, and to enable those with moderate means to participate at Western Speedway.

1. General Rules

- a. 1980 or newer 4- or 6-cylinder unibody cars only
 - i. No Camaros, No F-body Chryslers (Aspen, Volare etc.)
 - ii. No wheelbase limit.
- b. You must make an AGGRESSIVE HIT every 90 seconds
 - i. No sandbagging
 - ii. No playing possum/playing dead
 - iii. No shielding (deliberately driving in circles only exposing driver's door)
- c. No hitting outside the marked boundaries
- d. Passengers are not allowed
- e. Driver door hits are not allowed
- f. Roof signs are mandatory:
 - i. Must be a minimum of 2'x2' and maximum of 3'x3'
 - ii. Must be clearly visible
- g. There is a 1 fire limit, second fire you are out
- h. All Cars must be teched and pass by 8PM each event night
- i. Interpretation or deviation from these rules is left to the discretion of the officials. Their decision is final.
- j. It is the responsibility of the driver to ensure their car conforms to all rules and regulations at all times.
- k. Western Speedway mini figure 8 cars are eligible to compete but must pass derby tech and *may* have to cut excessive reinforcing, rad protection, bumper wraps, and halo/rad support kickers. Will be judged on a case-by-case basis.
- l.

2. Driver Safety

- a. Fire resistant suits are mandatory
- b. Helmets are mandatory - Snell 2010 or newer
 - i. Must have a visor or suitable eye protection
- c. 5-point seat belts are mandatory
- d. Neck braces are highly recommended
- e. Window nets are mandatory
 - i. Must use quick release type handle/latch

3. Car Construction

a. Interior:

- i. Interior of car must be stripped clean of all lights, carpet, plastic, trim, seats (except drivers), debris, glass etc. Dashboard may stay in.
- ii. If dash panel is removed, it must be replaced with a 2" heavy wall tube with flanges welded to each end and bolted into the dash position. Must not be bolted through door bars

b. Driver's seat:

- i. must be secured using stock hardware and location or equivalent
- ii. Seat must not move or have adjusters
- iii. Bench seats are not allowed

c. Sunroof assemblies:

- i. must be removed
- ii. Hole must be securely covered by sheet metal, or a securely mounted racing style window net

d. Steering Columns:

- i. Must be chained to dash bar
- ii. Padding of steering column is highly recommended
- iii. Customizations of steering shaft allowed. No welding. no adding gussets.

e. Air bags:

- i. must be removed

f. Cage Requirements:

- i. Minimum 3" diameter Upright behind driver seat is mandatory
 1. Must be bolted with a minimum of 3 - 1/2" bolts with adequate washers on top and bottom.
- ii. Minimum 3" diameter Cross bar as far forward as possible from b post to b post is mandatory.
 1. Minimum 2 - 3/4" bolts must be used on each side, along with adequate washers/steel plates for mounting.
- iii. Minimum 8" outer driver's door bar is mandatory.
 1. Must be C-channel, Heavy wall square tubing, or I-beam. NO grader blades, Armco barriers, etc.
 2. Minimum 4 - 3/4" bolts must be used to secure.
 3. One of these bolts must pass thru the cross bar, 2 recommended
 4. One of these bolts must pass thru the front fender and be braced with a large washer inside fender. If your door bar falls off, you are OUT.
 5. Passenger side door bar is optional but HIGHLY recommended.
 - a. Passenger door must be securely chained closed if not using a door bar.
 6. Door bars must not extend into wheel wells. Sharp edges must be cut. Bolts must be cut flush to nut.
- iv. Gas Tank Protectors are allowed but must not attach to car or frame in any way, cage only. Must have minimum 4 inches of clearance from all sheet metal at start of derby.

- v. Full cages that expand upon safety will be allowed but no bolting to frame or extra mounts. No kickers. Interior door bars allowed. Dash bar to Crossbar shifter bar brace allowed. No cross bar under steering wheel allowed. No bars from crossbar back aside from gas tank protector.

g. Gas tanks:

- i. Stock tanks must be removed
- ii. Replacement tanks must be one of the following:
 - 1. Racing fuel cell
 - a. Must be inside a minimum 22-gauge steel can
 - 2. Boat tank
 - a. Must be inside a minimum 14-gauge steel box
 - 3. Custom specialty derby tank
- iii. All tanks must be 100% leak proof
- iv. All tanks must be securely mounted with a minimum of 4 3/8" bolts and washers.

h. Fuel lines:

- i. must be double clamped and ensure no leaks
- i. lines within the driver compartment must run inside another hose for protection (IE garden hose)

i. Fuel Pumps:

- i. Stock mechanical or Electric allowed
- ii. Cars using an electric fuel pump must have an "E" clearly displayed on their roof sign and marked shut off switch easily within reach of safety crews.

j. Batteries:

- i. must be relocated into the driver compartment
- ii. must be securely mounted inside a steel or aluminum box
 - 1. A minimum of 4 3/8" bolts must be used to secure box to floor.
 - 2. No plastic marine boxes unless it is within an approved steel or aluminum box.
 - 3. Must be secure in the event of a rollover.
- iii. maximum of 2 batteries are allowed
 - 1. each battery must follow mounting guidelines

4. Under hood

a. Engine Compartment

- i. All insulation must be removed
- ii. AC Condensers must be drained and/or removed
- iii. Transmission lines may be looped - see trans rules
- iv. Radiator:
 - 1. Must be in stock location
 - 2. Fans are optional
 - 3. Expansion tanks are allowed, but must stay in engine compartment
 - 4. No antifreeze, water only
 - 5. Absolutely no radiator protection grills or added material

b. Engine:

- i. Swaps are permitted - 6 cyl maximum
- ii. Must be as close to stock mounting location as possible. Custom mounts allowed, No welding to extend more than 1/2 inch from mounts.
- iii. Chaining is allowed
- iv. Firewalls may be cut for clearance but must be covered with a heavy rubber mat.

- v. If left stock, you may weld stock mounts to car. No adding metal. Not to extend more than ½ inch from mount.

c. Transmission

- i. Custom shifters allowed. Must not strengthen car
- ii. Any holes cut for shifter must be covered by rubber mat
- iii. No transmission cradles or extra bracing
- iv. Transmission lines may be looped. Must be with hydraulic or steel hose and double clamped
- v. Aftermarket/Custom transmission coolers allowed, must stay under hood forward of the firewall.

5. Exterior

a. General:

- i. All exterior lights, trim and glass must be removed except for the front windshield. Front grills and headlight surrounds may be left on.
- ii. No protruding objects or sharp edges. Bolts must be cut flush.

b. Windshield bars:

- i. minimum 2" wide 3/16" thick is mandatory at minimum in center from cowl to roof
- ii. must securely mount to cowl area and roof of car, not the frame or cage
- iii. limited A-frame/ladder builds are allowed, but must only be for driver safety not to strengthen the car
- iv. No rear window bars whatsoever

c. Body:

i. Fenders:

- 1. Creasing is allowed
 - a. Must not extend up the pillars or onto the door
- 2. Fenders may be bolted with a maximum of 5 - 3/8" bolts and stock washers
- 3. May be cut for wheel clearance, same bolting rules still apply
- 4. Absolutely no welding

ii. Hood:

- 1. Must be able to open for tech
- 2. Bolting shut with a maximum of 1" hardware in 4 locations is allowed
 - a. Maximum of 2 of these bolts may go through the frame/front body mounts and rad support.
 - b. Bolts/washers must be standard style
 - i. Maximum 3" outside diameter maximum for washers
 - c. Maximum 6" washer/plates for top side of hood bolts.
- 3. Absolutely no welding
- 4. Hood skins may be bolted together with a maximum of 12 - 3/8" bolts and washers
- 5. Must have a hole cut in hood for fire safety crews to access fires.
- 6. Must be chained shut at minimum with 2 chains if not bolting.

iii. Trunk lid:

- 1. Bolting with a maximum of 1" hardware in 4 locations is allowed
 - a. Maximum of 2 of these bolts may go through the frame with washers no larger than 3" outside diameter.
- 2. Absolutely no welding
- 3. May be "tucked" - bolting rules still apply.
- 4. V-ing, channeling, or beating trunk down to floor is not allowed
- 5. No folding fenders over the trunk. Fenders must be vertical.
- 6. Hammer edging of back edge for folding purposes is allowed.

iv. Rear Speaker Deck:

- 1. Must remain in stock location and unaltered
 - v. Body mounts:
 - 1. No pinning or altering
 - 2. Hood and trunk may bolt through as mentioned above.
- d. Sub-Frame and Undercarriage:**
 - i. Absolutely no adding metal or welding
 - ii. Exhaust must be removed from rear wheels back at minimum. No side exit exhaust.
Hood exit OK
 - iii. Driveshafts on RWD cars must have chain or wire safety hoop. Sliders OK
 - iv. Rear end must be a factory car rear end 5 lug max. No custom derby rear ends. Welding spider gears OK
 - v. Frame rails/trunk floor may be notched and pre bent.
- e. Suspension**
 - i. Must be stock to make and model
 - ii. OEM replacement parts only
 - iii. Ride Height must remain stock
 - iv. No coil to leaf conversions.
- f. Bumpers:**
 - i. Front:
 - 1. Must be a stock bumper from an eligible car for these rules
 - 2. Absolutely no adding metal to bumper
 - 3. Ends of bumper may be cut and folded in
 - 4. Shocks may be compressed in and welded shut or bolted.
 - 5. Bumper brackets:
 - a. can be welded to the bumper and frame horns but must not extend more than 4" from bracket at any point.
 - b. Must be stock with stock size hardware
 - 6. Must be chained to car in 2 locations
 - ii. Rear:
 - 1. Shocks may be compressed and welded or bolted shut
 - 2. NO other welding. No adding metal anywhere.
 - 3. Musts be chained to car in 2 locations
 - iii. Fig-8 Cars:
 - 1. Must have stock bumpers front and back.
 - 2. Pipe/angle-iron (Typical Fig-8 bumpers) not approved.
 - 3. Stock bumpers can be welded to frame-horns.
 - 4. Full size car or truck bumpers not approved.
- g. Brakes:**
 - Must have functioning brakes and demonstrate the ability to stop at tech.

6. Tires & Wheels:

- a. Stock style OEM rims only
- b. All wheel weights must be removed
- c. Valve stem protectors are allowed
- d. No plating or weld in centres
- e. No liquid or foam filled tires
- f. No studded tires
- g. No solid forklift/Implement tires - Air only
- h. Doubling tires is allowed. Tubes allowed.