

## 2024 Mini-Mod Rules(Formally known as Midsize)

# ONTARIO

## Demolition Derby

### Eligible Drivers

Recommended for drivers 18 years and older., **Drivers 16 & 17 years of age must provide a parental consent form and have a parent or guardian onsite**

### Eligible Vehicles

- Any 1980 or newer 2WD passenger car with a 4-cylinder or 6-cylinder engine, with a wheelbase between **100” to 113”**
- All-wheel drive vehicles must be converted to 2wd
- No Hearses, limousines, jeeps, vans or trucks

### Driver & Pit Crew Rules

1. All Drivers, Mechanics, and Vehicles should report to the registration desk preferably two hours before the start of the event
2. Paid entry allows only one driver and one tow vehicle into the pit area
3. Each driver must attend the drivers meeting, held approximately 30 minutes before the scheduled start time of the competition
4. Recommended over 13 years old in pits. All children under 13 years old must remain at their trailer in between heats or while vehicle's are moving and must be with their guardian at all times. Driver may and can be disqualified if rule not followed.
5. Drivers/Crew Members between 16 and 17 years of age must have a parent and/or guardian present when registering to sign a parental consent form, and the parent and/or guardian must be present throughout the duration of the event.
6. Aggressive driving is limited to the track during the race. It will not be tolerated in the pit area
7. All Drivers and crew are required to sign a digital release form prior to the race or they will not be admitted to the pit area
8. There is **ZERO TOLERANCE** for the use of any alcohol or drugs prior to or during the race.
9. Ontario Demolition Derby reserves the right to disqualify or refuse any entry, or otherwise disqualify or eject any participant, crew member or team whose actions impede the progress, enjoyment or efficiency of the event
10. Only the driver of the competing car is allowed on the track after the heats / features without track official permission
11. Ontario Demolition Derby provides Participant Liability Insurance, however personal property and equipment is the responsibility of the owner
12. **Driver is responsible for the actions of their pit crew members**

### Equipment & Driving Rules

1. All drivers must be equipped with helmets, safety glasses, a seatbelt and a fire extinguisher within reach of the driver and track officials
2. All drivers should be wearing acceptable attire to participate (no shorts or tank tops)
3. Vehicles must have adequate brakes. The driver must have control of his vehicle at all times
4. No deliberate or aggressive driver door hits will be tolerated
5. If using metal fan blades and the hood of the car comes open the driver will be disqualified
6. **1 fire rule. Official's discretion**
7. If any door comes open while participating, that car and driver will be disqualified
8. A driver that is not making or attempting to make competitive contact with other active participants will be disqualified. You have 45 seconds. **NO SANDBAGGING.**
9. It is the driver's responsibility to be aware of and obey the track officials at all times. Failure to do so will result in disqualification
10. A heat winner or runner-up that qualifies for a feature event must drive the same vehicle in the feature race (if applicable)
11. No driver substitutions are allowed
- 12.No Block Rule.
13. No holding

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### Tire Regulations

- P-Rated Tires, cannot have a snow-type lug on the outside of the tire. If a tire is deemed to be too aggressive, the tire will require modification or replacement
- Tires with removed lugs is acceptable
- Wheel weights must be removed from both drive and non-drive wheels
- Doubled P Rated tires are permitted
- No liquid filled tires or studded tires will be permitted and no external liners (additional side walls) are not permitted
- No welded valve stem protectors
- 4 ply skid steers only are allowed. Air Filled. No Double skid steers
- Solid tires are only allowed on NON-Drive tires.
- Tire tread may be cut
- Rally Tires Allowed

### Welding

Welding is allowed in the following areas only, and is strictly enforced:

- Bumper may be seamed to the frame and 2 plates/angle per frame (3"x6" by 3/8") may be added from bumper to frame (gap may be filled)
- Bumpers may be spot welded closed, 2in space between welds.
- Doors and trunks may be welded in only 6 spots on each door and trunk each using **10 SQ IN** plates, with a maximum thickness of 3/16"
- Repairs to broken, severely rusted, or bent frames are allowed but must follow the below criteria:
  - Frames can only be repaired using 4"x4" plate, with a maximum thickness of 3/16"
  - Frames can only be repaired on 2 sides (No boxing, No 3-sided repairs) Max of 8 plates total
  - Frame plates must have 1 inch gap between plates
  - All repairs must be painted orange, and disclosed to officials during tech inspection
  - A repair is only acceptable if a defect is still visible, otherwise it will be removed
- Broken or bent tie-rods, can be repaired using **ONLY** flat steel or angle bar, **CAN NOT** be sleeved. Must be able to see the bend/break

### Vehicle Preparation Rules

#### Air Bags

REMOVE ALL AIR BAGS, if an airbag goes off and a track official suspects any injury the car may be disqualified.

The Air bag material **IS HIGHLY RECOMMEND** be used as covers for batteries and gas tanks

#### Engines & Drive Train

- Engines, engine components, transmissions and drivetrain are interchangeable between makes and models, however all replacement parts must come from eligible models

#### Numbering

- The front driver door must be painted White
- Both Front doors must be numbered for identification (passenger door may

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also be painted white)

### Vehicle Interior & Exterior

- All glass, decorative mouldings, accessories and trailer hitches must be removed, and the vehicle must be swept clean of any debris
- Rear seats, airbags and flammable material must be removed, with the exception of the front seat(s) and dash
- Sunroofs MUST be covered with a solid cover; strong steel mesh is acceptable

### Motor Mounts

- It is recommended that mounts are welded to the cross member (Chained is acceptable) Most not strengthen your vehicle
- Wish bones may be replaced with MAX 2 in Square/Round Tubing, MAX 4 inch angle to mount wishbone

### Headers

- Exhaust manifolds may be flipped upward, or alternatively, custom headers may be used

### Batteries

- Only one 12V automobile battery is permitted and must be secured to the floor of the front passenger area or in passenger seat
- The battery will require a non-flammable cover to be secured after the inspection

### Gas Tanks

- ORIGINAL MANUFACTURERS TANKS ARE NOT ALLOWED
- The stock gas tank must be removed and replaced with a CSA approved tank, fuel cell or custom fuel cell, which must be securely mounted in the centre of the rear seat
- Min TWO 2in ratchet straps may be used, body steel MUST be folded over to prevent strap from being cut
- MUST use MIN 1.5 inch washers if using bolts
- **NO SELF TAPERS ALLOWED**
- All tanks require a non-flammable cover to be secured after inspection. (AIRBAG MATERIAL RECOMMENDED, Each vehicle comes with a minimum of 2 air bags)
- Metal tanks are strongly recommended
- CSA rated plastic boat tanks are acceptable BUT MUST BE MOUNTED IN A FRAME AND MUST USE AN INLINE PUMP, NO TANK MOUNTED PUMPS ALLOWED

### Electric Fuel Pumps

- Electric fuel pumps are permitted but must have a functioning shut-off switch (stock column ignition acceptable). The switch must be clearly marked, and located either on the dash area in front of the driver, or on the roof directly above the driver

### Shifters

- Stock shifters can be removed and a replacement may be relocated
- Shifter protectors are allowed, **MUST NOT** be reinforcing the vehicle in any way.

### Radiators - No aftermarket/custom screens allowed

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- Coolant must be flushed out and replaced with water
- Radiators are not mandatory and can be bypassed or removed

### Transmission Coolers

- Transmission coolers may be used, but must be mounted either within the engine compartment or within the passenger compartment
- If mounted in the passenger compartment, a 2500 psi hydraulic hose must be used, with pressed fittings, and the cooler must be covered with tin, aluminium, or a suitable barrier between the cooler and the driver. Also, holes must be cut in the floor below the cooler to disperse excess fluid

### Body Mounts

- Front and rear most body mounts (bolts, washers, rubber and metal spacers) may be replaced with  $\frac{3}{4}$  thread rod, all others must remain stock
- If a repair is necessary max  $\frac{3}{8}$ " bolt/rod and max 3" washers may be used
- 2 mounts (1 per side) added using threaded rod (maximum thickness  $\frac{3}{4}$ " in front of front strut / suspension (must be vertical) washer max 3" (Can run from engine cradle to frame and through hood)
- 2 mounts (1 per side) can be replaced or added using threaded rod (maximum thickness  $\frac{3}{4}$ " behind rear suspension (must be vertical) washer max 3"
- Subframe may be welded to rad support, NO PLATES

### Doors Trunk Hood & Tailgate Fastening

- Doors, Hood, Trunk and Tailgates can be welded, or fastened shut in 6 spots each, using straps, wire,  $\frac{1}{4}$ " chain or  $\frac{3}{8}$ " bolt with max 3" washers
- **The B-Pillar seam counts for one spot on both the front and back door.**
- If welded, doors, trunk and tailgate may be welded in 6 spots only, using  $\frac{3}{16}$  plates no larger than **10 sq in** (Must have 4 inch gap between plates)
- Driver's door can be seam welded
- A minimum 6" hole must be cut in the centre of the hood
- If running an electric fan, or no fan, then the hood can be removed completely
- Hoods may be folded down over the front of the rad cradle but may not extend below the top of the bumper. **(Can not be welded to the bumper)**
- Front and rear Body Mounts can extend up through the Hood and Trunk with 4" MAX Washers and will be counted as fastened spots (see **Body Mounts**)
- Officials may ask to have your hood opened during inspection or any point through the show
- You may bolt the inner skin of your hood, ONLY around and within 2 inches of the fire inspection hole MAX 6 bolts

### Frames

- Frames can be cut, but may only be repaired as described above (see Welding), and may not be painted or undercoated
- You may repair a bent frame with a Pin.
- No plates on fresh cars

### Fenders & Body Panels

- Cutting / pre-bending fenders or body panels is permitted, However fenders may not be bolted

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### Bumpers

- Any REBAR is Accepted ( A rebar bumper is any metal bumper that is covered in a plastic outer skin)
- Mounting Steel bumper Open to anything in front of Rad Support (No gussets)
- Bumpers cannot be seam welded, and the ends may NOT be cut (ends can be bent in)
- Both front and rear bumpers should be chained (1/4" chain) or wired to the body to prevent them from falling off and becoming a hazard on the track in addition to being welded on (see above for Welding limitations)
  - The front Bumper chain or wire (**NO WELDING to the hood**) can only be attached to the vehicle in 2 places
  - The rear Bumper chain or wire can only be attached to the vehicle in 2 places from the bumper
  - Any chain or wire that connects to the hood or trunk will be counted as a fastened spot.
- 2"x2" Tube (6"max length) allowed, YOU must drill an inspection hole at 6" on frame
- Can not be loaded
- No square tubing or custom or steel fullsize Bumpers
- **Aluminium Bumper** mounting, you may weld or bolt ONE angle on each side of the frame, MAX 3x4x6 but must not go past rad support, face plate no wider than angles, No 2"x2" Tube shock allowed. Max 4 Bolts per bracket to attach the bumper. Max bolt size 5/8. SEE PICTURE BELOW

### Gas Tank Protector

- If you Have a gas tank Protector you may not run a Rear Window Bar
- GTP must be reasonably centred in the rear passenger area of the car, cannot be wider than 26"
- If GTP is fastened to the floor there must be 2" from any Halo or Post to Post bars.
- If GTP is connected to a post to post the protector must be at least 2" from the unaltered rear sill or any sheet metal and be fastened securely to post to post bar

### Window Bars

- A single bar or flat plate must be placed in front of the driver from roof to cowl
- A and H frames are also acceptable (No O or U frames) must be placed in front of the driver from roof to cowl. Max width of 20 inches, bolted in 4 spots
- If there is no Gas Tank Protector a rear window bar is permitted, (maximum 2" square tubing) which may only connect from the roof to the speaker deck (Max 4x4 plate) or the seam between the trunk and speaker deck area(Max 4x4 Plate), this counts as a fastened spot and may not fasten to trunk in any other way and cannot fasten to any other part of the car

### Safety Bars

- A single roll bar may be bolted or welded to the body / frame behind the driver's seat, and can run up over the roof, and back down to the body / frame, with a Single Post-to-Post Bar in between (MAX 4" square tubing)
  - A Dash Bar (Min 3" to Max 4" square tubing) may be mounted door frame to door frame, but not to firewall
  - A Passenger Side Bar (Min 3" to Max 4" square tubing) from Post-to-Post to Dash Bar is permitted, Only connected to the inside of the A and B Pillar not the door skin.
- Passenger Door may be stuffed
- A Drivers Side Bar from Post-to-Post to Dash Bar is permitted. NO LIMIT ON VERTICAL WIDTH
- No kickers or down bars from the dash bar permitted.
- Over built, unsafely built or bars that break lose during event can result in immediate disqualification

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### Door Plate and Protection

#### Driver's door protection is MANDATORY :

- It is recommended that the driver's door is reinforced with a flat bar or plate on the outside OR inside of the door. The bar or plate may not extend beyond 60" in length and should be from window to rocker
- Passenger Door may be stuffed

### Suspension

- Suspension components may be changed among vehicles, but must remain in original working order
- NO blocking, welding suspension or struts and no adding, welding clamping of leaf springs
- Coil springs should be clamped or wired to the car.
- Rear trailing arms may be replaced with stock size diameter pipe.

### STRUT GUARDS

MAXIMUM of 2"x2", 6" long square tubing may be welded horizontally to the frame between shock and frame

### A-ARM BAR

- A 3" x 3/8" single flat bar may be attached from the driver's side Lower A-Arm to the passenger's side Lower A-Arm
- Flat plate can only be attached to the A-Arms with weld and or Bolted, Can NOT be attached to the engine cross member
- Suspension MUST remain original with minimal effect on ride height,

### STEERING KNUCKLE BRACE

- For ALUMINUM Steering Knuckles (Spindles) only
- A brace may be fabricated out of flat plates welded together and flush to the knuckle can connect from the Cam bolts to the calliper mount bolt.
- The Brace may also brace the top and the Bottom of the Knuckle with flat plate

### Interior Wire

- You may add up to 6 strands of wire between the B-pillar and Rear Speaker Deck. Can not be attached to PTP. This may count towards your fastening count.

Examples of Strut Guards, A-Arm Bars, Steering Knuckle Braces are available on the Ontario Demolition Derby Ltd. Facebook Group Photo Album titled "Build Hints and Tips"

The intent of these modifications is to bring otherwise unusable vehicles into contention to provide more and often cheaper vehicle choices for the sport. More sought after and often more expensive derby vehicles are either not eligible or do not benefit from modifications by design

## Aluminium Bumper Mounting



## Protesting

If a driver believes that another participant is cheating, he/she must approach an official within 15 minutes after the final feature of the night. He/she must also present a \$100.00 protesting fee. If the car in question is determined to be cheating, the protest fee will be returned.

**Disclaimer** ONTARIO DEMOLITION DERBY has the right to re-inspect / cut/ or drill and vehicle HAVE THE RIGHT TO RE- INSPECT / CUT / OR DRILL ANY VEHICLE AT ANY TIME FAILURE TO PASS TECH WILL RESULT IN DISQUALIFICATION AND/OR FORFEIT ANY AND ALL WINNINGS \*\* If there are any questions about the spirit or interpretation of the rules please call ONTARIO DEMOLITION DERBY \*\* Vehicles deemed too small, to damaged or unsafe for their class by officials will not be allowed to participate \*\* Any equipment or fabrication deemed unsafe, over built or inadequate by officials will not be allowed to participate \*\* Any additional modifications not listed below can be deemed illegal, and may result in immediate disqualification \*\* Absolutely any unauthorised welding or unauthorised modifications found on a competition vehicle before, during or after \*\* Refer to website for exact classes at each event