

# ONTARIO DEMOLITION DERBY

## 2018 MIDSIZE BUILD SHEET

### Disclaimer

**\*\* If there are any questions about the spirit or interpretation of the rules please call an ONTARIO official (listed below). Any additional modifications not listed below can be deemed illegal, and may result in immediate disqualification**

### Eligible Drivers

1. Drivers must be 18 years old, or older, and have had a driver's license (G1 and G2 are acceptable)
  2. Drivers 16 and 17 years old and have a driver's license (G1 and G2 are acceptable) may participate in Mini Size and Figure 8
- \*\* Drivers 16 & 17 years of age must provide a parental consent form and have a parent or guardian onsite**

### Eligible Vehicles

**MID SIZE** a) Any 1980 or newer 2WD passenger car with a 4-cylinder or 6-cylinder engine, with a wheel base of **106" or Greater**  
b) No All-wheel drive vehicles, hearses, limousines, jeeps, vans or trucks or disabled 4x4's (removing front drive shaft)

**FIGURE 8** - Can be a Mini Size or a **4cyl** Midsize Vehicle  
**Demo X** - Can be a Mini Size or a **4cyl** Midsize Vehicle

- \* 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**  
**\*\*\* Refer to website for exact classes at each event**

### Tire Regulations

1. Tires for car events must be P-Rated, or marked as Load Range "B", and cannot have a snow-type lug on the outside of the tire. If a tire is deemed to be too aggressive officials may rule is requires modification or replacement
2. Tires with removed lugs is acceptable
3. Wheel weights must be removed from both drive and non-drive wheels
4. Double tires are permitted
5. No solid tires, liquid filled tires or studded tires will be permitted
5. No welded valve stem protectors

### Welding

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

- **Bumpers (Choose 1 of the following only)**
  - a. Original Shock = Bumper may be welded to the brackets, and the brackets may be welded to the frame
  - b. Hard Nosed = Bumper may be seamed to the frame and 2 plates (3"x6" by 3/8") may be added per frame from bumper to frame
  - c. 2"x2" Tube Shocks (6"max length) = Tube Shocks may be welded to bumper only, 1 bolt per shock may go through frame and shock and 1 plates (3"x6" by 3/8") may be added per frame from bumper to frame. YOU must drill an inspection hole at 6" on frame
- Bumpers may not be seamed closed or loaded with any material
- Doors and trunks may be welded in only 6 spots on each door and trunk each using 3"x3" plates, with a maximum thickness of 3/16"
- Repairs to broken, severely rusted, or bent frames are allowed but must follow the below criteria:
  - a. Frames can only be repaired using 4"x4" plate, with a maximum thickness of 3/16"
  - b. Frames can only be repaired on 2 sides (No boxing, No 3-sided repairs)
  - c. A maximum of 6 repairs can be made to any frame
  - d. All repairs must be painted orange, and disclosed to officials during tech inspection

**\*\* Absolutely any unauthorized welding or unauthorized modifications found on a competition vehicle before, during or after the event may result in immediate disqualification, and forfeiting of any due prize money.**  
**If there are any questions or concerns regarding welding, please call a listed official.**

### Vehicle Specific Preparation Rules

**Engines & Drive Train** - Engines, engine components, transmissions and drive train are interchangeable between makes and models, however all replacement parts must come from eligible models

**For any questions regarding rules and/or events please call or-email:**

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### Body Mounts

- Stock body mounts (bolts, washers, rubber and metal spacers) may not be removed or altered
- 6 additional body mounts may be added using bolts or threaded rod (maximum thickness 3/4")
- Rad cradle mounts can be replaced using threaded rod (maximum thickness 3/4")
- Rear most Mount s can be replaced using threaded rod (maximum thickness 3/4")

### Doors Trunk Hood & Tailgate Fastening

- Doors, trunk and Tailgates can be welded, or fastened shut in 6 spots each, using straps, wire, or 1/4" chain
- If welded, doors trunk and tailgate may be welded in 6 spots only, using 3/16 plates no larger than 3"x3" (Driver's door can be seam welded)
- A minimum 6" hole must be cut in the center of the hood
- If running an electric fan, or no fan, then the hood can be removed completely
- **Front and rear threaded rod on the hood and trunk count as fasteners**

**Frames** – Frames can be cut, but may only be repaired as described above (see Welding), and may not be painted or undercoated

**Fenders & Body Panels** – Cutting / pre-bending fenders or body panels is permitted, and fenders may **NOT** be bolted

### Bumpers

- Appropriately sized bumpers are allowed (may be changed among eligible models – NO Oversized Bumpers) A full-size Bumper is over sized, a full-size car rebar is not (Officials discursion)
- Bumpers cannot be seam welded, and the ends may NOT be cut (ends can be bent in)
- Both front and rear bumpers should be welded, chained (1/4" chain) or wired to the body to prevent them from falling off and becoming a hazard on the track (see above for Welding limitations)

### 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)
- A rear window bar is permitted, (maximum 2" square tubing) must not come within 6" of a halo bar, may only connect to the roof and speaker deck or the seam between the trunk and speaker deck area as long as it meets the **Doors Trunk Hood & Tailgate Fastening** rule. It may not fasten to trunk in any other way. It may not 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 Post-to-Post Bar in between (MAX 4" square tubing)
- A Dash Bar (Min 3" to Max 4" square tubing) may be mounted doorframe to doorframe, but not to firewall
- A Passenger Side Bar (Min 3" to Max 4" square tubing) from Post-to-Post to Dash Bar is permitted a minimum 6" in from Passenger Door Pillars
- A Drivers Side Bar (Max 2" wide horizontal) from Post-to-Post to Dash Bar is permitted. NO LIMIT ON VERTICLE WIDTH
- no kickers permitted. over built, unsafely built or bars that break lose during event ALL result in immediate disqualification

### Door Plate

- It is recommended that the driver's door is reinforced with a flat bar or plate on the outside of the door. The bar or plate may not be wider than 18", and may not extend beyond 60" in length (official's discretion will determine overuse of materials) 3/4" Plywood inside Drivers Door acceptable steel preferred
- Passengers side reinforcement is not permitted
- **It is MANDATORY that the driver's door interior be stuffed with a minimum of 3/4 plywood (steel / wood / combination of both acceptable)**

### Suspension

- Suspension components may be changed among vehicles, but must remain in original working order (NO blocking / stuffing suspensions adding leaf springs)
- A 3" x 3/8" plate can be mounted between lower control arms as long as suspension still moves in a near stock manor
- FWD ONLY **MAXIMUM 8"** long square tubing may be welded horizontally to the frame between shock and frame

**Tank protectors** – must be reasonably centered in the rear passenger area of the car, cannot be wider than 26" and fastened securely to floor  
If connected to a post to post the protector must be at least 2" from the unaltered rear sill or any sheet metal and only fastened securely to post-to-post bar

### Figure 8 / Demo X ADDITIONS

**Additional Fabrication allowed for figure 8 and Demo X are permitted, however eligibility to participate in Demolition Derby is FORFITED**

- Kickers, protectors, skid plates and Full cage protection inside Drivers Compartment is permitted
- Door Plate on the passenger is permitted
- A front Strut Bar is permitted is permitted
- A 4"x4" (1/2" thick max) flat/straight tube may be used as a bumper, it must be cut at a 45degree angel with the long side attaching to the frame and not to extend outside either frame rail OR a full size Bumper Skin may be attached to the stock bumper and only tack welded, full size skins cannot have cut ends facing out and must be folded to not exceed the width of the tires. (ONLY ONE OR THE OTHER OR MINI SMASH BUMPER IS PERMITTED)
- **NON lug type after marked tires (Rally tires) are permitted, NOT MECHENERY TIRES**

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