

WGAS Motorsports
28th Annual MK Smith Chevrolet Chino
Challenge Demolition Derby
July 14, 2018

WGAS Derbies are open to any American made passenger car. Chrysler Imperials and Imperial subs are not permitted. No trucks, vans, Suburban's, or commercial vehicles.

WGAS rules are designed to offer a fair and unbiased opportunity for all drivers to compete on an equal level, and will be strictly enforced!

PLEASE NOTE:

- Every derby car must have an up-to-date 5lb. dry chemical fire extinguisher and first aid kit in their pit area.
- All vehicles must be removed from fairgrounds by midnight.

Section 01: Car Preparation

- (a) All glass, including windshield, must be removed.
- (b) Flammable materials inside the car must be removed. These include the carpet, the rear seat, and interior trim including side and roof liners. Trunks must be free from any debris. The inside of the doors must be clear of all glass and debris as well.
- (c) All light covers/bulbs, side mirrors, hubcaps, grills, side chrome, plastic, door handles and pot metal must be removed.
- (d) All trailer hitches, related brackets, reinforcements and hardware will be completely removed.
- (e) Stock fuel tanks must be removed.

Section 02: Fuel Systems

- (a) A limited capacity of 10 gal. or less metal tank or boat tank is required as a replacement gas tank. You must solidly mount it centered in the center of the rear seat area of the car, ahead of the rear axle. NO PLASTIC TANKS!!
- (b) Gas lines and fittings must be leak proof. No exceptions. Rubber fuel lines located inside the passenger compartment must run through a second larger hose such as a garden hose to prevent accidental spillage on the driver in case of a leak. A drain hole must be made in the floor board for fuel runoff.
- (c) Electric fuel pumps are optional. If an electric fuel pump is used, you must have an on/off switch that is positioned so that up is on and off is down. The switch must be easily visible and "off" must be clearly marked.

- (d) Gas Tank protectors may be welded to back bar and run to the rear side of the gas tank. It *cannot* touch the frame in any way! The side bars of the gas tank protector cannot be more than 5" off the sides of the tank.

Section 03: Batteries

- (a) Batteries must be re-located inside the car to the front passenger floorboard. Battery must be securely fastened to the floor. In NO way may it be connected/bolted to the frame. NO RATCHET STRAPS OR BUNGEE CORDS OF ANY TYPE.
- (b) Two (2) batteries maximum. You must be able to shut car off while strapped in.

Section 04: Safety Bracing (See Diagram A at end of Rules)

- (a) A front cross brace must be installed above the steering column from window post to window post (in the former position of the dashboard). It must be made of a minimum 2" pipe or square tubing with 1/8" wall thickness and be securely fastened into position. The dash bar in no way may touch or be bolted to the floor or the frame of the vehicle. If a 2-piece pipe is used, it must be securely fastened so that it cannot collapse. (Welded or minimum 3/4" bolt).
- (b) A rear cross brace must be installed from side to side behind the driver as close to the door post (B pillar) as possible, and at least halfway up from the floor. It must be made of a minimum 3" pipe or square tubing. If the cross brace is collapsible, it must be pinned with a 3/4" bolt (minimum) or welded so it can't rotate. Optional: If floor boards are rusty, you may run MAX 2" Pipe or square tubing over to the inner rocker panel sheet metal. It must be welded, no bolting of this bar! *This bar MAY NOT be welded to the frame!!*
- (c) A driver's door bar and passenger door bar must be welded from back bar to dash bar to make a box around the driver. Bars cannot be more than 15" past back bar or 4" past front bar.
- (d) All cars must have a minimum of 1 upright (vertical) post that is located directly behind the driver's seat. The upright will extend from the roof to the cross bar. Note: ***Highly Recommended*** use a three-piece upright (Halo) Uprights may go through the window and over the roof. They may in no way be connected to the frame. If bar is behind driver's seat it must be padded.

Section 05: Seat and Seat Belts

- (a) Approved safety harnesses or functioning OEM belts are mandatory. They must be mounted to stock mounts or have a 2" minimum flat washer where it is mounted through the sheet metal.
- (b) Seat can be OEM stock of any make/model car. A headrest on the upright behind the drivers is mandatory if the seat was not equipped with a headrest. No fiberglass/plastic racing style seats.

Section 06: Building, Welding & Securing HOODS and

TRUNK MUST BE OPENED FOR TECH!! NO EXCEPTIONS!

THERE WILL BE NO OTHER WELDING OTHER THAN WHAT IS STATED BELOW. IF YOU HAVE A QUESTION ABOUT WELDING, PLEASE CALL THE HEAD TECH OFFICIAL!! IF WELDING IS FOUND ON THE FRAME OR SHEETMETAL THAT IS NOT SPECIFIED BELOW, YOU WILL BE ASKED TO CUT OR LEAVE!

- (a) Doors: You may fully weld the doors. You may use strapping no larger than 2" wide X 1/8" thick or 3/8" re-bar or equivalent. A 3/8 steel plate can be placed in the driver's door to protect the driver. It can not be attached to the frame in any way.
- (b) Trunk lids, tailgates and hoods must be secured shut with chains as follows:
 - You are allowed 4 chains on the hood and 4 chains on the trunk. Chains must be a minimum 3/8" & maximum of 1/2" welded type. A bolt no smaller than 3/8" & maximum of 1/2", with washers, must connect the chains.
- (c) Bumper swaps are allowed but they must be stock passenger car bumpers and use stock brackets.
- (d) Front and rear bumpers may be welded in the following way only: bumper to bumper shock, shock to bracket and bracket to frame. No extra metal. *No "hard noseing"!* Bracket must be stock from car.
- (e) Bumper shock itself may be collapsed and welded. No added material.
- (f) Bumper height not to exceed 19" from ground at base. You can use store bought spring spacers to achieve this height.

Section 07: Window, Window Screen

- (a) A protective screen of 3/4" wire mesh or smaller can be installed across half the windshield in front of the driver. A car with a sunroof is allowed as long as the opening is securely covered with sheet metal and deemed safe by tech officials.
- (b) A maximum of two 3/16" thick x 2-1/2" wide flat stock must be installed down the center of the windshield from top to bottom. Window bars may be bolted or welded with a minimum of 5/16" and maximum of 1/2" bolts. No sheet metal screws allowed fastening window bars.
- (c) An optional rear window bar may be added. It cannot touch the trunk lid in any way and can only go 6" on the roof.

Section 08: Radiator and Tranny coolers

- (a) No cooling system other than stock is permitted (Aluminum racing style is ok) . Radiators and/or fans can be removed if desired. Radiator support or radiator attachment will be no stronger than stock. Tech decision is final.
- (b) Transmission coolers other than stock, if used must be in an enclosed box inside the vehicle. Transmission coolers and all hoses must be double clamped. Any transmission hose inside of car must be double hoses!

Section 09: Motor and Transmission

- (a) Stock or aftermarket motor mounts can be welded, Lower motor cradle allowed only. Motor straps welded to the frame and bolted to the motor are allowed. Straps can be a maximum thickness of 1/4" flat bar and 2" wide only and are limited to 2 straps each side. Engine supports may be used as long as they are not reinforcing the frame.
- (b) Any Motor and Tranny can be used. Slider drive shafts will be allowed

- (c) You must have either an air cleaner or suitable flame arrestor. Two large holes, at least 6" in diameter, must be put in the hood for fire extinguisher access. Stack holes are acceptable for fire access holes. No alternative starting methods i.e. starting fluid etc....
- (d) Tranny mounts can be stock cross member or 2" square tubing
- (e) Stacks must be a minimum of 21" from exhaust port.

Section 10: Suspension and Steering

- (a) Any passenger car 5-lug rear end may be used. Rear end may not be braced in any way. You may NOT reinforce the rear end control arms (trailing arms).
- (b) Leaf conversions are NOT allowed on non-factory leafed cars. Suspension must remain STOCK!
- (c) All suspension parts must remain stock and working. Cars will be checked for solid suspension!
- (d) You may clamp leaf springs, 4 clamps per leaf. 2"x1/4" MAX, two 3/8" bolts per clamp.
- (e) Aftermarket steering columns will be allowed but must have a collapsible section.

Section 11: Brakes

- (a) Cars must have a minimum of two working hydraulic brakes.
- (b) Driveline brakes will not be allowed.

Section 12: Tires, Wheels, Tie-Rods

- (a) Any air-filled tire may be used. Doubled and forklifts are ok. Tubes are ok.
- (b) Rims must come from a non-commercial passenger vehicle, cannot be larger than 15".
- (c) Wheel wells may be trimmed to gain 3" of clearance. They can be folded and bolted. You may re-bolt wheel wells. You are allowed 5 3/8" bolts with 1" diameter washers per wheel well.
- (d) Valve stem protection is permitted.
- (e) Tie rods may be reinforced with 1"x1"x 1/8" angle. Must have stock tie rod ends. No pipe ties rods.

Section 15: Sign Boards, Numbers.

- (a) Car numbers must be clearly visible on the car in a contrasting color. Numbers must be a minimum of 18 inches in height.

Section 16: Repairing Damaged Cars

- (a) When repairing damaged cars, you may use 2- 4" x 4" x 1/8" plates per frame rail total. Pieces cannot be any closer than 3". They may not attach to each other in any fashion. Repairs pieces must have an inspection hole drilled in the center of plate and be **painted white!**

- (b) You can only plate a part of the frame that has already begun to bend or crack. Do not weld plate to a Frame that is not bent or you will have to cut it off.

Section 17: Options

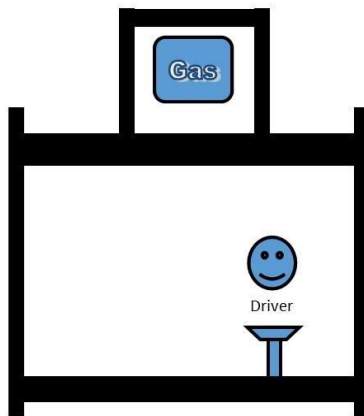
- (a) You may cut firewall for distributor clearance. You must cover with tin or thick rubber material.
- (b) You may re-bolt hood skins. 10 bolts maximum. 5/16" "max bolt size. 1" max washer size.
- (c) Fire extinguishers are NOT mandatory, although highly recommended. If a fire extinguisher is installed in the vehicle, it must be securely mounted and within driver's reach.
- (c) You may chain the humps. You will be allowed 1 wrap of chain. It may go through the body and around both humps.
- (d) All cars should be brightly painted. - This is for the promotion of the sport.

80's and newer only:

- (a) In order to keep the Derby car count up we are going to allow any 80's and newer car to be tilted in front of the Firewall only.
- (b) It can be tilt or cut and rewelded (no added metal!)
- (c) You can add two 4" body spacers in the front to fill the gap. They can be no larger then 2" by 2" by 4" and ¼" wall.

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Cage Design



Halo example

