

# 2019 Blizzard Bash Rules Compact Team Derby

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This is not a set of rules, but a set of guidelines of how to build your car. If it doesn't say you can specifically do something, then you can't.

## General Rules-

- All rules will be followed or you will not run.
- All drivers must sign the driver's paperwork or they will not run.
- Drivers must wear a seatbelt, helmet, and fire suit jacket.
- All drivers and crew members must attend the drivers meeting.
- No hot rodding in the pits, keep it at an idle. This will be the quickest way to be disqualified.
- You are given 1 minute to make an aggressive hit. After 1 minute that particular car will be disqualified, not the team.
- No drivers are allowed alcohol period. If you are wearing a driver's band and drinking any form of alcohol -you and your team will be disqualified.
- Cars will be re-inspected before prize money is paid out. The cars will be re-inspected by the Smash it Demolition Derby staff only.
- There is a \$250 protest fee, and you must be a driver in the main event to protest another car or team's car. Driver must have cash in hand directly after the feature in order to protest. If the car is found to be illegal, the entire team will be disqualified.
- Any complaints that a driver has about another car prior to the start of the first heat will need to be addressed in the drivers meeting. If nothing is said, we don't want to hear about it after the show.
- Any questions, give me a call: Call or Text Kyle Bahl (320-444-3607), or call Russ Clark (614)-376-2363. If these rules or a phone call to us does not say you can do it, then don't. We can't stress enough to call first.
- Judge's decisions are final. DO NOT paint anywhere on suspension or frame; we will not inspect your car.

## Vehicle preparation rules:

- Remove all glass, mirrors, door handles, plastic, trailer hitches/mounts, and make sure the vehicle is swept clean of all debris.
- 108" max factory wheelbase on all vehicles in this class. Leave vin tag to verify make/model/year. 4 and 6 cylinder engines only. NO SUVs or Trucks.
- Batteries must be moved into the passenger compartment and properly secured and covered.
- You must have a number in bright colors in each front door and must have a sign on the roof with a number on it. You cannot use the roof sign to strengthen the car.
- All cars must have working brakes when you cross the ramp. If the car is not able to exhibit the ability to stop, then it will not be inspected.
- Factory Fuel tank, oil coolers, transmission coolers must be removed

- NO welding other than what is mentioned in this set of rules. If your car is found with any weld, other than what is allowed and you refuse to fix it to the judge's satisfaction, you and your car will not run.

## Inside of Car:

- All cage material must be no larger than 8" OD, unless specified for a specific rule.
- Dash bar, back seat bar, and door bars must be a minimum of 4" off the floor everywhere.
- No cage material may be within 6" of the firewall and any part of the engine and protector. Must be a minimum of 4" off the transmission tunnel which may not be altered. You may weld a bar behind the seat from door post to door post, it can be an X. Do not connect directly to the frame, and you may also have (with no extensions), across your dash area to replace your dash. You may run 60" max door bars connecting the dash bar and the seat bar.
- You may weld two down bars per side from the cage to the frame vertically. Do not angle these or conceal a body mount with them. These down bars must remain behind the inside door seam and may only be welded to the top side of the frame or floor. These bars cannot exceed 2"x3". You must have roll loop behind the seat (8" diameter max), which must be welded to the floor or frame and may be welded or bolted to the roof.
- RWD cars may run the down bars straight down and over to the body mount washer. These must remain separate.
- Back seat bar and halo bar must be placed a minimum of 5" in front of the center of the rear seat body mount. On cars where this isn't present, must be a max of 10" from driver's seat.
- You must run a gas tank protector. It cannot attach to anything other than to your cage. Cannot exceed 24" wide and must be centered in the vehicle. It can angle in from your halo bar, it must be 4" off floor sheet metal and 1" from rear sheet metal. Must stay on interior of car.
- A well made metal fuel cell (no plastic tanks) is required and it must be mounted to your gas tank protector only.
- Fuel line must be ran inside the car and secured properly.
- Engine oil coolers and transmission coolers are allowed. These coolers cannot be placed to reinforce the car. Cooler mounting may be to sheet metal or cage mount only (not both).
- Floor mounted pedals are permitted. They must be 2" from any body mount or cage components.
- Batteries may be mounted to the cage or to the floorboard (not both). The battery box may not strengthen the vehicle in any way. Must be a minimum 2" from, frame, body mounts, and protectors.
- Cable shifters are permitted but may not be mounted in any way to strengthen the vehicle.

## Bumpers and Bumper Mounting:

Option #1: Any Seam welded OEM bumper may be ran as long as it has an unmodified skin front and back. It may be loaded, but all added material must remain inside the bumper.

Option #2: Homemade bumpers may be used as long as it falls under all of the following dimensions. 6"X6" max dimensions plus the optional 4" point spread out over a minimum of 32". No sharp or protruding objects.

- You may trim bumper ends or fold them around.
- No welding bumper to the body or cross member in any fashion.
- Bumper height not to exceed 22" to the bottom of the bumper to the ground and be a minimum 14" from the ground to the bottom of the bumper or frame.
- Bumpers must be mounted in stock location.
- Front and rear bumpers may have 4 loops of wire from core support/trunk lid to bumper (not frame). These cannot be placed in-front of the radiator.
- No more than one set of OEM car bumper shocks/brackets may be used per bumper. Rear bumper brackets must be OEM for the vehicle you are running.
- You can weld bumper brackets/towers to the bumper and to the frame.
- No brackets are allowed any further back than the first 16" of the frame.
- Instead of using bumper brackets, you are allowed to use 1-4" wide x 3/8" thick strap extending from your bumper down one side of the frame and cannot extended further back than the first 16" of the frame. You are also allowed to wrap this strap around the front of the frame 3" to create an "L" shape, this is to give you enough material to weld your bumper to the strap. Plate may be formed to fit the frame but it may not be doubled up at any point. 4" width includes forming.

## Frame

- No frame swaps or relocating of frames. Frame must be factory for your car.
- Unibody vehicles may cut the frame off flush with the front edge of the core support / body mount hole. If it is a weld on mount, leave the remaining portion of the body mount in place. If you remove the body mount completely or relocate it, you will not run.
- No shortening the rear rails or center of the vehicle.
- You are only allowed to weld the factory frame seams from the front side of the firewall forward with a single 1/2" bead. On a unibody car you can weld the cross member (K-member/sub frame) seams and the main unibody seam but do not weld the two together. No welding of inner fenders, strut towers or anything else. You may not beat the lip over and weld it (example fox body mustang)
- Coil sprung cars will be allowed 20" hump plates. 1/4" thick 3" wide contoured to the frame. They must be centered in the rear axle no cheating to one side or another. Must have 2 half inch inspection holes drilled in them.
- Rust repair- Call before fixing any rust on the frame. The rust can be cut out a piece cut exactly to the hole size maybe butt welded in (same thickness).
- No frame shaping is allowed.
- No tilting or altering of the frame in any way.

- Do not shape your humps.
- You may run 4 loops of #9 wire or 1 loop of 3/8" chain from frame rail to frame rail underneath the back of the vehicle, behind rear end. This may go around the frame, or it may go through a factory hole in frame, or you can weld 1-3/8" chain link to the inside rail of the frame to run the wire through. This wire may pass through the trunk floor if you choose.

## Suspension and Steering-

- Do not re-engineer the way the steering components mount to the frame.
- Aftermarket stock replacement ball joints and tie rod ends are allowed. Tie rod tubes may be reinforced.
- A-arms-
  - May be seam welded.
  - Must be bolted on in a factory manner.
  - May be welded or bolted down but may not be reinforced.
  - If bolted, you may use 1 3/4" bolt per a-arm if choosing to bolt.
  - If welded, you may use 2-2x4x1/4" straps per a-arm. This strap must be welded to the a-arm and cannot be farther forward or backward than 1" past the widest part of the a-arm.
- Struts must be factory for the vehicle you are running. Must mount with factory mounting brackets and be stock appearing. You may reinforce the inside of the strut, and are allowed 1-2x4x1/8" strap to weld on each strut.
- Steering box, pitman arm, and idler arm are interchangeable with vehicles that are legal for this class. Must bolt on in factory manner.
- Spindles and hubs must be stock for a vehicle that is legal in this class. You may weld 1- 6"x 3/4" rod to the back side of the spindle.
- Sway bar must be mounted in stock location and stock manner. No welding of sway bar or mounts
- **No leaf spring conversions- PERIOD.**
- **Leaf springs** must be made of stock spring material with a 1" stagger, front and back. No springs can be as long as the main leaf. You can have a total of 7 leaf springs per side, no thicker than 5/16" thick and 2 3/4" wide. The main leaf must be the top spring in the spring pack and lead spring must go down from longest to shortest. You can re-clamp springs, 6 clamps per side. Homemade clamps cannot exceed 2x4x1/4", while using up to 1/2" bolts. Must have a 2" arch in your springs. Must mount leaves to the factory mounting brackets. Brackets may be welded on, do not relocate them.
- **Coil springs** can be changed to a stiffer spring, or put spacer in sagging coil springs. You can wire, or chain springs to rear end to prevent springs from falling out.
- Rear shocks may be replaced with 1" max all-thread.
- You can loop chain or wire (1 loop of 3/8" chain or 4 loops #9 wire) from rear end to frame in one spot on each side. Must go around frame, do not bolt chain to the frame. We are going to

allow you to weld 1 link of chain per side of frame, if you choose to weld the chain instead of wrapping it around the frame.

- You may use rear end of choice, but must be no more than 8 lugs. Welded or posi-trac highly recommended. Braces are welcome, may not extend more than 3" past the housing. Brace must not reinforce your frame. Rear end control arms can be reinforced, but must start from a stock set. The factory bracket must attach in stock location for the vehicle you are running.
- Slider drive shafts and CV shafts are permitted.

## Wheels and Tires-

- No rims larger than 16", no split rims, no studded tires.
- Valve stem protectors, full centers, bead protectors, and bead locks (on the inside of the wheel only) are allowed. No sidewall protectors.
- No foam filled on the "drive tires".

## Motor, Transmission and Engine cross member –

- You may use a 4 or 6 cylinder engine of your choice, must be mounted in stock location in a stock manner.
- Motor mounts can be replaced but must remain factory style. Reinforcing of the mounts is permitted but must still have a bolt as a pivot point. Mounts may be welded solid with 1-4"x6"x1/4" thick plate per side. Mounts (other than upper FWD) must go to engine cross member, not to the frame. Top side FWD mounts may be welded on one side but must pivot on the other (do not weld the mounts together).
- Full engine cradles are allowed, but must be 6" from any cage components and 6" from the core support.
- All engine cradle components must be 3" away from the frame rails on RWD vehicles, a minimum of 1" from the frame rails on FWD cars, and may not strengthen the frame in any way. **Only 12 inches may contact the firewall.**
- Transmission brace, aftermarket bell housing, aftermarket tail shafts, and skid plates are allowed.
- Transmission braces must be contoured to the transmission. On FWD cars, must be a minimum 1" from frame. Transmissions and braces must be a minimum of 4" from any cage components.
- The factory transmission cross member must be in the stock location for the vehicle you are running. You may replace the transmission cross member on RWD cars with one straight piece of 2"x2"x1/4" max tube. Tube can be welded with a single piece of angle iron (8" long 2"x2", 1/4" thick max) to each side of the frame. You must remove the stock mount if you run the angle iron. The transmission cross member is the only way the transmission may be tied to the frame. Transmission may be bolted (may not be welded in any way) to the cross member with 2-5/8" bolts with 1.5" washers or you may wrap a chain around the transmission to the cross member.

## Trunk, Tailgates, Hood, Doors, and Body -

- Body shaping is allowed to the exterior of the vehicle only. All panels must remain in factory position. Rear quarter panels and tail light valance must remain vertical.
- You can patch rust holes in sheet metal with sheet metal only. Do not cut rust out; weld 2" beyond rust max.
- You are allowed 2 strands up to 4 loops of #9 wire per window opening. May go around frame and through the roof sheet metal only. Do not use your cage in any way to support this. Must stay within the window opening (don't cross the car).
- You may use up to 4-1/2" all thread to mount your radiator. This may pass through the bottom of the core support. You may use 2"x6" 1/8" thick flat steel welded to the core support to run your all thread through.
- No radiator or fan protectors allowed.
- Body bolts can be replaced with up to 1" bolts.
- K-frame cars are allowed to bolt the K-member to the frame solid with no spacer (no welding). May have 1- 2x3x1/4" washer inside the frame and 1- 4x4x1/4" washer on top. Bolts must be up inside the frame. If you choose to use a body mount hole for your trunk all thread, this does not have to be up inside the frame.
- If running a core support spacer, must be 2x2x1/4" tubing welded to either the frame or body not both.
- Absolutely no body mounts may be moved or added.
- Do not shorten the front of your car.
- Core support may not be relocated and must be bolted in factory location only.
- Hoods must have at least a 12" square hole in case of a fire. You are allowed 16-3/8" bolts with a washer of 1.25" to bolt hood seems.
- You are allowed to bolt your hood down in 6 places with 1" max all thread. 2 of these may go to the side of the frame or through the core support body mount hole. The other 4 pins/bolts may be 8" max length, tin to tin only. 5x5x1/4" max washers may be welded flush/level with the hood to support these hood pins. 5" max floating washers to keep the hood shut.
- Fenders may be bolted back together with no more than 6-3/8" bolts with a 1.25" diameter washer. No rolling your fenders and welding them. If you wrap or fold your fenders around the front of the core support, do not exceed 4-3/8" bolts with 1.25" washers to bolt together.
- Do not alter the firewall in any way.
- For safety, all cars must have 2 bars extending from the roof of the car to the wiper cowl. The straps cannot be any larger than 3/8"x3" flat strap. Do not connect these bars in any manner.

These bars may be welded/bolted to 3"x5" plates. Plates and bars must stay within 5" of the windshield opening. Must be a minimum of 3" from any protectors and cage.

- Rear window bar is allowed. Must be a straight piece of 2"x2"x1/4" max material. 5"x5"x1/4" max mounting plates are allowed top and bottom. Must remain within 5" of the window opening and must be 3" minimum from any part of the cage (halo, fuel cell protector, ext).
- You may weld your doors and trunk shut with no larger than 3"x1/8" flat strap (do not overlap). Only exterior seams may be welded. If you choose to bolt or wire or doors shut, must be done in a minimum of 6 locations.
- You may fold the tops of the doors over and weld the inner to outer (no added metal).
- You are allowed to skin the driver's door with 3/16" thick sheet metal for safety reasons. It may not extend further than 3" past the door seams.
- You can fold hoods or trunk lids over. Do not slide your hood or trunk lids forward or back, trunk must remain on hinges. Trunk lids may be shaped but must remain 8" off the floor.
- 2-1" all thread may go from the trunk lid to the frame. You may pass through a factory body mount hole or weld 3" to the side of the frame.
- May use up to a 5"x5"x1/4" floating washer on top of the trunk lid.
- **Do not remove the speaker deck.**
- Wagons must remove all rear decking and seat components. If you choose not to run a rear bumper on a wagon, you may drop the tailgate straight down welded to the body only.