



Demo Derby Rules - Sunday September 26, 2021, 7:30 p.m.

Power Wheels

Ages 4-10

1. The stock battery can be replaced with a 12-volt mower battery only and can be positioned anywhere inside the car and covered. It may not be in the passenger seat.
2. Secure the doors and hoods with a bugy cord or rope so they don't come open.
3. Seatbelts are not mandatory but recommended. Helmets are mandatory.
4. Any rollover bars will be allowed if we feel they are safe and don't reinforce the cars. Bring your saws.
5. You can put screws in tires for traction if it is safe.
6. DO NOT make the power wheels go any faster than factory or you will not be permitted to run.
7. ALL POWER WHEELS MUST SIT LIKE THE STORE-BUGHT ONES. NO RAISING OR LOWERING THE FRONT OR REAR OF THE POWER WHEELS. SCREWS MAY BE ADDED TO TIRES FOR TRACTION.

Youth 2021

Rule questions, call:

Josh Irwin – 330-260-7980

Ed Corpman – 330-340-9754

General Rules:

1. Upon arrival a notarized parent consent form must be filled out or you will not be allowed to participate.
2. One parent must be present with valid I.D. A notary will be present to notarize entry forms.
3. **A PARENT OR ADULT MUST RIDE WITH THE DRIVER! This is for instructional purposes as well as any possible emergency situations.**
4. Child must wear a fire jacket.

Car Building:

1. Cars must remain stock unless specified in these rules. All cars must be factory front wheel drive 4 or 6 cylinder and wheelbase must not exceed 113".
2. You must strip the interior 100%. Leave the passenger seat in for the passenger. You can leave the dash, but completely remove airbags and power charge.
3. Key start recommended.
4. Driver's door and passenger door may be welded all the way around on the outside. Only the driver's door and passenger door may be reinforced on the outside from door seam to door seam.
5. All other doors may be welded 5 on 5 off.
6. Deck lid and/or hatch may be welded 5 on 5 off.
7. No tucking or wedging of the rear of car is allowed.
8. Only 1980 and newer bumpers are permitted on car. They must bolt on in factory location and manner. You may collapse the shocks and weld all the way around at the mounting point of the frame. You cannot add bumper shocks to a car that does not have them from the factory.
9. You must use 2 places in windshield area for #9 wire or 3/8" chain from roof to cow of car to prevent hood from coming into cabin of car.
10. Rear window bars are not allowed.
11. Battery must be mounted inside the car. All battery parts must be covered with a nonflammable material.
12. Any tire permitted. Remove wheel weights. No studded tires permitted.
13. You must have a 4- point cage for driver and passenger's safety. Reinforcing the driver's door and passenger door is highly recommended: 12 x 12 inner door plates and no larger than 6" diameter pipe may be used. A roll over bar is strongly advised. You may also have a gas tank protector no wider than 24".

14. Fuel tanks: **IMPORTANT: Any fuel system that we feel is unsafe will not pass. Stock gas tanks are NOT allowed to be bolted in your back seat area. Tanks must be made of steel, a 4-point hold down bolted to the floor with a minimum of a 2" washer on the underside of the car. All hoses must be double clamped at all connections. Electric fuel pumps must be operated by a switch that the passenger can shut off in case of a fire. We will paint switch during inspection. Stock systems will simply use the key.**
15. All cars must remain factory stock unless otherwise stated in rules above. If you have questions, please call the officials listed above.

80's & Newer Pro Stock 2021

Rule Questions – Please call:

Josh Irwin 330-260-7980

Ed Corpman 330-340-9754

General:

1. Any American made 1980's and newer cars ONLY.
2. Helmet, seat belt, long sleeves/pants and eye protection must be worn at all times on the track.
3. Any questions, call first. If it doesn't say you can do it, DON'T!
4. ABSOLUTELY NO painting of the frames.
5. Cars must be swept clean of debris and glass before coming to event. All windows, headlights, taillights, chrome and mirrors must be removed prior to entering the fairgrounds.
6. JUDGES DECISIONIS FINAL. All cars are subject to re-inspection at ANY time.

IF IT DOESN'T SAY YOU CAN DO IT, THEN DON'T DO IT!

ONLY MODIFICATIONS ALLOWED ON CARS ARE OUTLINED IN THE FOLLOWING RULES

Frames and Bumpers: NO RUST REPAIR

1. Trailer hitches and braces must be removed.
2. No frame welding other than what is stated in the rules.
3. You may cut the flaps and tilt the frame in 1 place and in 1 direction. No seam welding on frames permitted.
4. No shaping or hammering of the frame is permitted. You may crease, notch, or dimple rear 12" of the frame to help car roll.
5. Homemade front bumpers are permitted. If you choose to manufacture a homemade bumper, it must conform to the following size limits: it can be no larger than 8"x8"; the point must taper over an area of at least 32" wide and cannot exceed 12" wide (front to back); the point may only extend out 4" from the flat part of the bumper; if using a factory bumper, it may be loaded or stuffed full.
6. You may mount front or rear bumper in 1 of 2 ways:
 - a. Bumper may weld to factory shock in factory location
 - b. Front frame may be shortened to front edge of body mount and bumper may be welded directly to the frame. On the back side of bumper where it meets the frame, you may use a ¼" 6"x6" to create a flat mounting surface.
7. Car must have a 6"x20" hump plate. This may be straight across or contoured to the frame and must be centered in the hump.

Body & Frame

1. Doors may be welded 5" on 5" off with no thicker than 1/4" 3"x5" material or fastened shut with #9 wire or banding. Driver's door may have a door skin no thicker than 1/8" and may be welded all the way around.
2. Trunk lid must be from the make of the car and must be a trunk lid (no hoods). You can fold trunk lid or push down. Trunk must remain on factory hinges and front part of speaker tray must remain vertical. Quarters must be 12" from the body mount to the top of the quarter. No welding deck lid to trunk floor. Body creasing is ok. Deck lids may be welded with 3"x5"x1/4" [late 5" on 5" off. Speaker deck must remain intact.
3. Hood can be bolted down in 6 places, 4 spots sheet metal to sheet metal and 2 front body mounts that may extend through the hood. If using wire, you may use 8 double strands of #9 wire. 2 may go around bumper or frame. Hoods must be open for inspection. (12"x12" hole over carburetor). You must have a 12"x12" inspection hole in deck lids.
4. Factory body bolts may be changed to 5/8" bolts. There must be a 1" gap between body and frame. You can use steel spacers, hockey pucks, or stack washers. Nothing used may be bigger than 3" in diameter. Body washers inside of car can be no bigger than 3" in diameter. The front 2 body mounts may be 1" and extend up through the hood. You may weld a 3" washer to the top side of the frame only, centered over the body hole (1/4" thick).
5. No seam welding will be permitted on body. Repairing sheet metal is limited to where the battery box and gas tank and driver's area of the floorboards of the car.
6. Front body spacer may be 6" tall maximum and must remain below the core support.
7. You may have a bar in the dash area and a bar behind the seat. You can have one bar per side connecting the dash bar and rear bar. Side bars must be inside of car, not inside of doors. Roll over bar is permitted. No down legs permitted. Gussets permitted in corners of cage, must be done at corners only. No bigger than 4" in diameter bars and no longer than 60". You can use a 1/4"x10"x10" plate to attach bars to sheet metal. No kickers or down legs permitted. You may have a gas tank protector no wider than 32". It may touch the package tray. It may be welded with 2 welds or 2- 1/2" bolts.
8. Dash bar must be 5" from firewall. Rear bar can be no farther back than where the kick panel meets the seat. All bars must be 5" off the transmission tunnel.
9. Original gas tank must be removed and replaced with a boat-style tank or fuel cell moved inside of car behind driver's seat but no further back than rear axle. Batteries must be moved to passenger side floorboard and securely fastened. These must be covered with a rubber or non-flammable material.
10. You may use expanded metal no thicker than 1/8" or a factory air condenser on core support in front of radiator. This may be attached with 4 -3/8" bolts or 4 - 1" welds.
11. You may have 1 front and 1 rear window bar that cannot be any thicker than 3"x1/4". These may attach to the sheet metal no more than 6" on roof and deck lid.

12. You may have 4- ½" bolts per wheel well.

Suspension:

1. No all thread in the front and must be stock shocks.
2. Any tie rods may be used. On '03 and newer, you must use the factory rack and pinion. Any rear end permitted. If you run a rear end brace, it cannot reinforce the frame or be any wider than 10".
3. Watts link conversions on '98 and newer cars are permitted. You must use ¼"x2"x2" square tubing or 2" round pipe for rear trailing arms. Upper and lower mounting bracket uppers must be mounted to the package tray and lowers must be mounted on side of frame. (Cannot be mounted inside or on top or bottom of frame). Can be no larger than 7"x7".
4. You can weld front a-arms down using a ¼"x2"x4" piece of steel, front and back side of a-arm. No other weld is permitted on a-arm.
5. No spacers or other metal permitted in, on top of, or around coil spring inside of frame on front coil springs.
6. Rear coil springs may be wired or chained. Solid suspensions are ok. All suspension components must remain factory stock – no modifications will be permitted. Cars do not have to bounce. Front coil springs must remain stock car coil springs. You may use 1" all thread for shocks no bigger than a 3" washer and it must be standard nuts.
7. Leaf spring cars must remain factory springs. You cannot change coil spring to leaf spring set ups.
8. Any tire may be used.
9. On '03 and newer Fords, you must use factory aluminum cradle and suspension components. You may use 80's style spindles and only 80's style spindles. You cannot tilt an '03 and newer Ford.
10. No aftermarket spindles allowed. If you use aftermarket ball joints, the collar you weld in or bolt in, can only be a ½" bigger than the ball joint.
11. If you run a sway bar, it must be mounted in the factory position. The ends can be heated and bolted to the a-arm with no bigger than a ½" bolt. Must have a 1" gap from pulley protector.

Engine, Transmission & Drivetrain:

1. Any car motor of choice is allowed. Must use frame mounts that have a rubber style bushing like a factory style mount. ZTR or equivalent mount will be permitted. No solid mounts permitted. No chains on engine allowed.
2. Transmission cross member can be a factory one or a 2"x2" square tubing only and it must be straight.
3. Angles for cross member can't be longer than 7" and 2"x2". Must be within 12" from factory location.
4. Lower engine cradles and pulley protectors are permitted.

5. Trans braces and aftermarket bell housings or tail shafts are NOT permitted. Slider drive shafts are permitted.
6. ****NO DISTRIBUTOR PROTECTORS OR MID PLATES****
7. Aftermarket gas pedal, brake pedal, steering column trans-cooler are permitted. These must not be mounted in a way to strengthen car.
8. After market aluminum bells are permitted. NO steel bells or steel tail shafts of any kind are allowed. NO skid plates permitted.

WE HAVE THE RIGHT TO RE-INSPECT, CUT OR DRILL ANY CAR AT ANY TIME
IF YOU ARE CAUGHT BREAKING THE RULES, YOU WILL FORFEIT ANY AND ALL
WINNINGS AND OR PRIZES YOU WERE AWARDED!
NO REFUNDS ON ILLEGAL CARS

2021 Compact and Full-size Street Stock Rules

- 1. Any 1980 and newer cars. No hearses or limousines permitted.**
- 2. Cars must be 100% stock! No cross breeding. The entire driveline must be the same make as the car (Chevy to Chevy, Ford to Ford, etc.). Must appear to be factory engine to car with stock exhaust with exhaust cut off.**
- 3. Engine must be mounted with stock mounts in stock position. No welding of mounts, bolted only. No homemade cross members. Cross members must be stock and bolted, not welded.**
- 4. Relocate the fuel tank to rear floor of car. Must use a fuel cell or boat tank. No stock fuel tanks permitted inside of car. It must be securely fastened to the floor with bolts. Ratchet straps are not approved to mount fuel cells.**
- 5. Windshield may be left in car OR you can remove it. The following must be removed prior entering the fairgrounds: windows, headlights, tail lights, and all chrome and mirrors. Interior must be swept clean of debris and glass. You must remove all glass, plastic, and fiberglass on outside of car. This includes plastic bumper covers.**
- 6. You may take out plastic fender wells under the hood. You may move the battery to the floor of the car and you may lengthen cables to reach battery on floor not the wiring harness. This will be strictly enforced.**
- 7. If the car has a wiring harness in front of core support, you may move it behind core support. You cannot remove body mount bolt to do this.**
- 8. All body bolts must be factory stock. No altering permitted.**
- 9. Doors must be chained or wired. No more than 8 places per door. The wire for the bottom of doors may go around the frame. You may use 5/16" chain or 2 strands #9 wire per hole. Paint front doors in contrasting paint. Example – if the car is black, paint doors white.**
- 10. Trunks must be chained or wired no more than 8 places. 2 of these may go around bumper and/or frame. TRUNKS MUST BE OPEN DURING INSPECTION! Deck lid and/or tailgate must be in factory position on car or be completely removed from car. You cannot remove speaker deck from car. No welding or adding metal. No tucking, wedging, pre-bending,**

smashing, folding or anything else you can think of. No welding washers to body for wire.

11. Hoods may be wired or chained in 8 spots. You may use 5/16" chain or 2 strands of #9 wire per hole. It must be sheet metal to sheet metal only. No welding washers for holes. Must be 12" hole in hood in case of fire. Remove hood latch! HOOD MUST BE OPEN FOR INSPECTION!
12. Any tire and rim permitted, doubles permitted, no foam filled tires or bead locks permitted.
13. NO CREASING OF THE BODY IS PERMITTED!
14. You can have a safety bar behind driver's seat if you choose. These may be no bigger than 2x2" and mounting plate can be no bigger than 6x6" and mounted no farther than 6" behind driver's seat. You may also reinforce the driver's door as you see fit for driver safety. This may be done from door seam to door seam only.
15. Stock type springs and shocks. No solid suspension. Screw in type spring risers ARE OK! NO wire, chains, or and weld on rear ends or rear spring pockets. Cars must bounce and cars must be stock!
16. Only 1980 and newer bumpers are permitted on car and they must be bolted on in factory location and manner. You may collapse the shocks and weld all the way around the shock and the plate to bumper. Dec bumpers and ADEPT bumpers are permitted. Ends must remain open and no metal may be added to the bumper. If car has no shocks, bumper may be welded directly to the frame with no metal added. On the back side of bumper where shocks mount, you may use a ¼" x6" x6" piece of flat metal to create a flat mounting surface.
17. You may weld spider gears in rear end to make it posi. You must use factory rear end housing for the car you are running.
18. Read all rules carefully and follow them! It will be a cheap and easy build. Any questions – call! There will be no stretching or bending of any rules or you will either run in the modified class or go home.

Weld Compacts 2021

Rule Questions Please Call:

Josh Irwin 330-260-7980

Ed Corpman 330-340-9754

General:

RWD Cars no more than 106" wheelbase & FWD Cars no more than 109" wheelbase. **No Full Frame Cars.**

1. Any questions, call first. If it doesn't say you can, don't do it! Cars must be stock unless modification is stated in the rules. No painting of the frames. Judges decisions are FINAL. All cars are subject to re-inspection at any time before, during, or after the event. No refunds on illegal cars. We have the right to re-inspect, cut, or drill any car at any time. If you are caught breaking the rules set here forth, you will forfeit any and all winnings and/or prizes you are due.
2. All glass, plastic, and interior must be removed before arriving to the event. Cars must be stock unless modifications stated in rules. If you stretch a rule, you will lose that rule.
3. Helmet, seat belt, long sleeves/pants & eye protection must be worn at all times on the track.

Body:

1. Doors may be welded all the way around on outside of body only with ¼" x 3" wide strapping. No excessive overlapping of strapping is permitted.
2. Deck lids and tailgates may be welded with a 5" on 5" off rule using 4" x 3" wide pieces of steel or 9 wired or banding in 8 spots. Deck lids and tailgates must be in original location. Deck lids may be folded down in the trunk and trunk lids may be dipped along with speaker deck. Speaker deck can be removed, but trunk lid can only be welded to quarter panels and taillight assembly only. Nothing may be welded inside of trunk. Drunk decks must be factory for make and model of car.
3. Hood may be 9 wired in 6 places or bolted in 6 places. Bolts may be 5/8" in diameter. Front 2 body mounts may extend through core support and used as front 2 of the 6 hood bolts. 1" all thread max. You cannot sleeve the all thread with anything from bottom of core support and above. A 12" hole minimum must be in the hood.
4. No interior body seam welding will be permitted. Doors can be welded on outside of body only. On pre-ran cars the doors may be repaired back to stock. Rust repair is limited to floorboards and roofs only.
5. Hoods must be open for inspection. Must have a 12"x12" hole over the carburetor.

6. Cars may not be smashed flat if cars are tucked. The rear panels must stay at the factory height. Deck lids must be in factory location (above rain channels).
7. You may have a window bar or wire in the windshield and rear window if using metal. It can be no thicker than 3/8" and no wider than 3". You may use 2x2 pipe but not solid. These may not touch the rollover bar. They can be welded to roof and firewall no more than 6" from the window area and welded to the floor directly above rear axle. The rear window bar cannot be attached to anything else except for roof of car and floor pan and welded 6" at the rear window on roof and 6" on floor pan.
8. You can add a piece of angle (4"x4"x1/4" max) to top of the core support but it can be no longer than 1" wider than the radiator. No other metal permitted on core support. No other metal permitted to be welded to core support.
9. Original gas tanks must be removed and replaced with a boat-type tank or fuel cell. Move inside of car behind driver's seat but no further back than rear axle. No stock fuel tanks permitted inside of car.
10. Batteries must be moved to passenger side floorboard and securely fastened.

CAGE:

1. You may have a 4-point cage surrounding the driver's compartment with a rollover bar. Bars 6" diameter. Max must be sheet metal to sheet metal only. Dash bar must be 5" away from all sheet metal. The bar behind the seat can sit no further back than 12" from rear of driver's seat and must be at least 5" off the floor measured from the highest part of the floor/driveshaft tunnel. You may use a rollover bar from front side of roll bar across the roof down to dash bar. This may not connect to sheet metal. Door bars may be no further forward than the firewall and extend into rear doors. On 4 door cars they must stop 2" from back of door. On 2 door cars they must stop 3" from rear wheel well on the body. The rear of these bars must be free floating and may not attach to the body.
2. No angling of roll bars permitted.
3. You may have gussets in cage at the corners. They must be within 6" of corners of bars only. No other gussets will be permitted.
4. You may use 2 down legs to the frame from the rear bar down to frame. These must run straight down. No angling of the down legs permitted.
5. You may use a floating gas tank protector that comes off the back bar but it cannot be wider than 24". The gas tank protector or holder may go all the way back to the sheet metal. The gas tank protector must stop at the sheet metal in front of rear axle and rear seat meet.
6. A center bar from rear seat bar to dash bar is permitted. You may use a bar from the roll over bar on roof across the front roof down to dash bar. Door bars may not extend farther forward than the firewall.

Frame:

1. Trailer hitches and braces must be removed. No plating, pinning, heat treating, stuffing the frame of any kind. Do not paint frame! No welds on frame or K member may exceed a single pass. No weave passes or building the weld up permitted.
2. No frame creasing or hammering permitted. You can notch or crease rear frame. This is to help rear of car roll, not to strengthen the frame. Frame welding is limited to front and rear bumper areas. You may do one of the following but not both: a. you can weld 1 seam per side on body from firewall forward or b. 1 seam per side on k member with no metal added. Front frame may be shortened to front side of core support. Core support must remain in stock location.
3. If a frame section needs to be replaced or repaired (rust) you must call first. On pre-ran cars if the frame is shortened in the rear and bumper replaced, the bumper shocks may not be located closer than 6" from hump plate.
4. Angles for cross member can't be longer than 5" and must be within 12" from factory location.
5. For coil spring cars, you may use a hump plate. They may be ¼"6"x16" centered in the hump. They will be measured from the top center of the hump and must start no lower than the center of the frame. Hump plate must be at least 2" from rear end housing. On leaf spring cars, you may use a 1'4"x6"x10" hump plate to be measured the same way. These hump plates may contour the frame or run straight across cross hump. Hump plate must remain flat plate. No bending of this over the top or bottom of frame.
6. You may clip pre-ran cars with a single butt weld with no metal added. Must be the same make and model of frame. All factory holes in frame must remain open – no welding these holes shut permitted. T clip a car, you must call to get approval.
7. Front mounting points on K members may be welded to body of car no more than 3" welded area per side permitted. They may be bolted solid.
8. Sway bar and bracket may be welded to the frame. This must be in stock location and must only be welded to bottom of frame.

Bumpers:

1. Homemade bumpers are permitted but they must be no bigger than 81/2" at any point. No sharp or excessive points will be permitted. This will be measured with a fixture. Bumpers larger will not run! No exceptions! There will not be a tolerance for the 81/2" measurement. If using a factory bumper, it may be loaded or stuffed full.
2. Bumpers may be no lower than 14" and no higher than 20" to bottom of bumper – this will be strictly enforced. Bumper seams may be welded. Metal may be added to bumper. This must be done on the inside of bumper – front bumper only. Rear bumper may be seam welded. No metal may be added to rear bumper.
3. Bumper shocks and bumper brackets may be welded to the frame. Bumper brackets and or shocks must be no longer than 12" in length and welded to inside or outside of

frame. If welded to outside of frame, they must be on the side towards the outside of car. They will be measured from back side of bumper back. You can hard nose the front bumper – you may use a 2"x6"x1/4" plate to weld bumper to frame- 2 per mounting point. These plates must be on side of frame- not permitted on top or bottom of frame. You may weld shock to frame factory bumper shocks- can only be 12" from end of frame and may not be moved back on frame.

Engine & Transmission:

1. No chains on engine permitted. Solid or aftermarket mounts are ok.
2. 4 & 6 cyl. Engines only. Distributor protectors are allowed. Nothing that attaches to engine can be wider than the stacks, i.e. dist. Protector, engine cradles, etc., or be used to strengthen cars.
3. Oil pan and transmission pan may be plated. The plate used may only be 1" wider than the pan they are welded to. They may not connect in any way.
4. No steel bell housings allowed.
5. You may use a transmission brace – these may not strengthen car in any way and must be approved by Smash It.

Suspension:

1. You may modify tie rods. Valve stem protectors are permitted. A-arms must remain in stock configuration. Any tire permitted. Rear trailing arms may be homemade – no bigger than 2"x2" square tubing or pipe.
2. Upper a-arms may be welded down with a 1/4"x2"x2" piece of steel on front and back side of upper a-arm and you may plug weld the center of the a-arm. Lower a-arms may not be welded. Cars do not have to bounce. Solid suspension is allowed. Coil springs in rear may be welded, wired, or chained to rear end.
3. Rear end protectors may be used but may not be used to strengthen car in any way. Leaf spring cars may replace broken springs with factory 1/4" leaf springs only. No more than 5 springs allowed and must have a 2" stagger and mounted in factory location. You cannot change coil spring to leaf spring set ups.
4. Idler arm must be bolted factory to frame – no bolts will be permitted all the way through the frame. Sway bar may be welded to bottom of frame in the factory location- you may use a 1 1/2"x4" bracket or a 2" square tubing or pipe to weld to sway bar to attach frame. You cannot move the sway bar. They must mount in factory location.
5. On front wheel drive cars, you may reinforce the rear axle assembly with a 2"x2" square tubing, 2" angle, or 2" wide flat plate – this may not in any way reinforce the body of the car. NOTHING BIGGER THAN 2"X2" MAY BE USED. The 2"x2" can attach to rear hubs.

JUDGES DECISIONS ARE FINAL!!

Full Size and Compact Trucks 2021

Rule Questions Call:

Josh Irwin – 330-260-7980

Ed Corpman – 330-340-9754

General:

- Any American made pick up, suburban, and blazer type vehicles permitted.
- Hybrid, Crossover or SUV vehicles like PT Cruiser, HHR, Honda Pilot, and so are NOT ALLOWED.
- Helmet, seat belt, long sleeves/pant and eye protection must be worn at all times on the track.
- Any questions, call first. If it doesn't say you can, don't do it.
- ABSOLUTELY No painting of the frames.
- Truck must be swept clean of debris & glass both inside and out before coming to the event.
- JUDGES DECISION IS FINAL. All cars are subjected to re-inspection at any time.

Truck Building:

1. Factory fuel tanks must be removed. Fuel tanks must be located in the bed of the truck in the center of the bed and directly behind the cab. NO STOCK FUEL TANKS ALLOWED. Fuel cells must be secured, fastened and covered for safety.
2. You may use engine of choice.
3. No kickers to distributor protector.
4. Batteries must be moved to front floor or cab and be securely fastened to floor and covered.
5. All trucks MUST have seatbelts.
6. Doors must be secured by wire, chain or welded shut. No loose doors allowed.
7. Tail gates may be welded shut. They may be welded to the bumper on the rear of the truck.
8. Bed seams (where the bed sides meet the floor) may be welded inside the bed ONLY. No metal may be added.
9. Box & Cab mounts may be replaced with up to 1" bolts. Body mounts may be removed. The body bolts may go all the way through the frame and floor of the truck.
10. No trailer hitches or reinforcements of frame or body of any kind permitted. May use car bumpers. For mounting of car bumpers, you may use factory bumper shocks and brackets or a 3" x 3" x 5" long box steel or likewise material.
11. Hoods must be in place and operable. Must have a 12" by 12" hole cut in hood over carburetor.
12. Hoods must be wired or bolted shut. Only 6 double strands of wire allowed. All can go to frame or bumper.

13. NO 4-Wheel drives allowed. 4-wheel drives must have front drive shaft removed.
14. Tires: No split rims. No tractor treads or solid tires allowed. All other tires are ok.
15. Beds must be welded to the cab of the truck with a 3" strap directly behind doors.
16. 8 strands of #9 wire allowed on front and rear of truck. All is permitted to go to the frame.
17. Suspension may be solid. Bumpers can be no higher than 22" from bottom to bumper to ground – front and rear.
18. A 4-point cage is HIGHLY recommended in drivers compartment for driver's safety. The cage in the cab may be 4 down legs from front and rear bar straight down to the top of the frame. Also, a gas tank protector is highly recommended. Protector may attach to the frame but may not extend further than 24" from the front of the bed.
19. Truck must sit level. No pulling down the rear of the truck. No smashing of the bed sides will be allowed. You must use factory springs for make and model of truck. You may use all thread for shocks.
20. On trucks without front leaf springs, you can have kickers from the dash bar to frame behind A-Arms 2" x 2" square tubing or 2" pipe. Only 1 per side.

ENGINE / TRANSMISSION:

1. No chains on engine permitted. Solid or aftermarket mounts are ok.
2. 4 & 6 Cyl. Engines only. Distributor protectors are allowed. Nothing that attaches to the engine can be wider than the stacks (i.e. distributor protector, engine cradles) or be used to strengthen cars.
3. Oil pan and transmission pan may be plated, and the plate used may only be 1" wider than the pan they are welded to. They may not connect in any way.
4. No steel bell housings allowed.
5. You may use a transmission brace. These may not strengthen the care in any way and must be approved by Smash It.
6. Hoods must be open for inspection. Must have 12" x 12" hole over carburetor.
7. Cars may not be smashed flat. If cards are tucked, the rear quarter panels must stay at the factory height. Deck lids must be in factory location (above rain channels).
8. You can add a piece of angle (4" x 4" x ¼" max) to top of the core support but can be no longer than 1" wider than the radiator. No other metal permitted on core support. No other metal permitted to be welded to core support.
9. Original gas tank must be removed and replaced with boat-type tank or fuel cell. May be moved inside of car behind driver's seat but no further back than the rear axle. No stock fuel tanks permitted inside of car.
10. Batteries must be moved to passenger side floorboard and securely fastened.

CAGE:

1. You may have a 4-point cage surrounding the drivers compartment with a roll over bar. Bars 6" diameter max. Must be sheet metal to sheet metal only. Dash bar must be 5" away from all sheet metal. The bar behind the seat can sit no further back than 12" from rear of driver's seat and must be at least 5" off the floor measured from the highest part of the floor/driveshaft tunnel. You may use a rollover bar from front side of roll bar across the roof down to dash bar. This may not connect to sheet metal. Door bars may be no farther forward than the firewall and extend into rear doors on 4 door cars. They must stop 2" from back of door. On 2 door cars they must stop 3" from rear wheel well on the body. The rear of these bars must be free floating and may not attach to the body.
2. No angling of roll over bars permitted.
3. You may have gussets in cage at the corners. They must be within 6" of corners of bars only. No other gussets will be permitted.
4. You may use 2 down legs to the frame from the rear bar down to the frame. These must run straight down. No angling of the down legs permitted.
5. You may use a floating gas tank protector that comes off the back bar but it cannot be wider than 24". The gas tank protector must stop at the sheet metal in front of rear axle and the rear seat meet.
6. A center bar from rear seat bar to dash bar is permitted. You may use a bar from the roll over bar on roof across the front roof down to dash bar. Door bars may not extend farther forward than the firewall.

FRAME:

1. Trailer hitches and braces must be removed. No plating, pinning, heat treating, stuffing the frame of any kind. Do not paint frame! No welds on frame of K member may exceed a single pass. No weave passes or building the weld up will be permitted.
2. No frame creasing or hammering permitted. You can notch or crease rear frame. This is to help the rear of the car roll, not to strengthen the frame. Frame welding is limited to front and rear bumper areas. You may do one of the following (not both) 1. You can weld 1 seam per side on body from firewall forward or you can weld 1 seam per seam on K member with no metal added. Front frame may be shortened to front side of core support. Core support must remain in stock location.
3. If frame section needs to be replaced or repaired (rust) you must call first. On pre-ran cars, if the frame is shortened in the rear and bumper replaced, the bumper shocks may not be located closer than 6" from hump plate.
4. Angles for cross member can't be longer than 5" and must be within 12" from factory location.
5. For coil sprung cars, you may use a hump plate. They may be ¼" x 6" x 16" centered in the hump. They will be measured from the top center of the hump and must start no lower than the center of the frame. Hump plate must be at least 2" from rear-end housing. On leaf spring cars, you may use a ¼" x 6"

x 10" hump plate to be measured the same way. These hump plates may contour the frame or run straight.

6. You may clip pre-ran cars with a single butt weld with no metal added. Must use same make and model of frame. All factory holes in frame must remain open. No welding these holes shut permitted. To clip a car, you must call to get approval. Cross hump, hump plate must remain flat. No bending this over the top of bottom of the frame.

7. Front mounting points on K members may be welded to body of car. No more than a 3" welded area per side is permitted. They may be bolted solid.

8. Sway bar and bracket may be welded to the frame. This must be in stock location and must only be welded to bottom of the frame.

BUMPERS:

1. Homemade bumpers are permitted. They must be no bigger than 8 ½" at any point. No sharp or excessive points will be permitted. This will be measured with a fixture bumper larger. Anything larger will not run. There are no exceptions. There will not be a tolerance for 8 ½" measurement. If using a factory bumper it may be loaded or stuffed full.

2. Bumpers may be no lower than 14" and no higher than 20" to bottom of bumper. This will be strictly enforced. Bumper seams may be welded. Metal may be added to bumper. This must be done on the inside of the bumper. Front bumper only. Rear bumper may be seam welded. No metal may be added to the rear bumper.

3. Bumper shocks and bumper brackets may be welded to the frame. Bumper brackets and or shocks must be no longer than 12" in length and welded to inside or outside of frame. If welded to outside of frame they must be on the side towards the outside of the car. They will be measured from back side of bumper back. You can hard nose the front bumper. You may use a 2" x 6" x ¼" plate to weld bumper. The frame – 2 per mounting point. These plates must be on side of frame. Not permitted on top or bottom of frame. You may weld shock to frame factory bumper. Shocks can only be 12" from end of frame and may not be moved back on frame.

SUSPENSION:

1. You may modify tie rods. Valve stem projectors are permitted. A-arms must remain in stock configuration. Any tire permitted. Rear trailing arms may be homemade and no bigger than 2 x 2 square tubing or pipe.

2. Upper a-arms may be welded down with a ¼" x 2" x 2" piece of steel on front and back side of upper a-arm. You may plug weld the center of the a-arm. Lower a-arms may not be welded. Cars do not have to bounce. Solid suspension is allowed. Coil springs in rear may be welded, wired, or chained to rear end.

3. Rear end protectors may be used but may not be used to strengthen car in any way. Leaf spring cars may replace broken springs with factory 1/4" leaf springs only. No more than 5 springs allowed and must have a 2" stagger and be mounted in factory location. You cannot change coil spring to leaf spring set ups.

4. Idler arm must be bolted factory to frame. No bolts will be permitted all the way through the frame. Sway bar may be welded to bottom of frame in the factory location. You may use a 1 ½" x 4" bracket or a 2" square tubing or pipe to weld to sway bar to attach to frame. You cannot move the sway bar. They must mount in factory location.

5. On front wheel drive cars, you may reinforce the rear axle assembly with 2" x 2" square tubing, 2" angle, or 2" wide flat plate. This may not in any way reinforce the body of the car. Nothing bigger than 2" x 2" may be used. The 2" x 2" can attach to rear hubs.

JUDGES DECISIONS ARE FINAL!

Full Sized Modified Rules 2021

Rules Contact:

Josh Irwin 330-260-7980

Ed Corpman 330-340-9754

1. Any American made sedan or wagon (no frame imperials, convertibles, limos, hearses, etc.
2. Helmet, seatbelt, long pants & eye protection must be worn at all times.
3. Any controversies must be brought up before or during the driver's meeting.
4. If you have questions – CALL! **IF IT DOESN'T SAY YOU CAN DO IT, DON'T!**
5. Judges decision is final. May reject any or all entries for any reason.
6. Cars must be stock unless modification is stated in rules & trailer hitch and brace must be removed.
7. All glass, plastic, and interior, including decking in wagons, must be removed before arriving at the event.
8. Motor of choice, engine cradle, front motor plates and chains are ok. Distributor protectors are ok but no wider than the intake and can only be connected to the top and back side of the block.
9. A 12" x 12" inspection hole in all trunks and hoods. They can be bolted back together.
10. Original gas tank must be removed and replaced with a boat type tank. (10-gallon max tanks)
11. Batteries must be moved to passenger's side floorboard and covered with a rubber mat.
12. You may weld, wire, or bolt your doors, trunk lids and tailgate completely shut. (3" max wide, ¼" thick straps)
13. All interior body seams may be welded. Do not double up any body panel in any way.
14. Frame seams from the feet forward may be welded. (1/2" wide max bead)
15. If a (one spot) frame section needs to be replaced or fixed from rust, it must be put back stock.
16. Don't load, plate or pin the rails. Do not use paint or undercoating to deceit us in any way.
17. You may put 4, 4"x4" plates max on each side on pre-ran cars that have frame damage/bent
18. Back bumper must have factory size/length bumper tubs and may be strapped t the body with wire or ¼" metal straps. (Limit 4-3" straps)
19. You may weld washers in all body mount holes (3" round max store-bought washers only)
20. You must have a window bar or wire in the windshield are. Rear window bar also permitted (3"max straps)

21. You may modify tie rods and control arms and use valve stem protectors. Any tires round and black.
22. You may use a floating gas tank protector that comes off the back bar, no wider than 2 ft. wide.
23. You may have 6 spots on the hood. (bolt or wire & must count hinges) Hood must be open for inspection.
24. Tucked cars must have large holes cut in so we can see inside. No wedging call for tucking wagons.
25. Body bushings may be removed and bolted down solid to the frame. You also may add 2 extra body bolts.
26. You may use 1" all-thread in the front to mounts. Put up through and used for 2 of your hood bolts.
27. Body bolt max size 1" -4" size washers through the floorboard.
28. A-arms can be welded down to the frame. Cars do not have to bounce but height must be within reason.
29. Bottom of the back bumper can sit no lower than 16" from the ground.
30. No doubling up pre-ran sheet metal tears (1/2" overhang max using the same gauge steel when patching)*note – no over patching! Judges have final say!
31. You may use rear end of choice. Eight-lug rear ends permitted. NO dual rear ends.
32. Stock/type thickness on leaf springs – (no bus type heavy duty springs) 5 clamps max per side.
33. You may choose a or b, but not BOTH!
 - a. Change coil spring cars to leaf spring set-up (refer to Rule 32)
 - b. Use a hump plate over the rear end with same contour of the frame or a square plate (22"x6"x1/4").
34. You may have a cage surrounding the driver's compartment with a roll over bar. Bars max of 6" in diameter. Must be sheet metal to sheet metal only. The dash bar must be 5" from firewall – **this will be strictly enforced**. The bar behind the seat can sit no farther back than where the kick panel meets the bench seat. Roll over bar and rear down leg are cage components. No center bar in cages permitted. You may use 2 down legs to the frame from the rear bar down to the frame. These must run straight down. No angling of the down legs permitted. You may use a floating gas protector that comes off the back bar but it cannot be wider than 24" or it will not be allowed to run. Gas tank protector i-holder can be welded or bolted to rear sheet metal or package tray with 2- 1/2"x4" bolts or 2 – 3" welds. You can have kickers from the front dash bar to the top side of frame behind a-arms. 2x2 square tubing or 2" pipe only. NO other material may be used. They must be within 2" of an arm.
35. Any year bumper permitted. All bumper seams may be welded. Front bumpers may be loaded. Bumpers must be a factory car bumper. Front and back skin is required. NO homemade bumpers. Dec bumpers are permitted – all work to be done inside of the bumper. No spacers of any type permitted between the front bumper and the frame

bumpers may be 8" from top to bottom and 8" front to back. The bumper on the rear of the car must be factory (dec bumpers allowed). No adding of metal to bumper on rear of car is permitted. Openings in bumper may be closed out. You may use 1'4"x2"x6" plate to weld from bumper to frame - 2 per bumper mounting location. Rear bumper shocks must appear stock (must be round pipe or factory shock – no tubing will be permitted). Front bumper may use one but not both of the following: A 10" shock inside frame **OR** A 4" wide x 3/8" thick strap extending from your bumper down one side of the frame and cannot extend any further back than the very front most part of your original factory top-front- a-arm bracket factory weld. You are also allowed to wrap this strap around the front of the frame 4" to create an "I" shape. This is to give you enough material to weld your bumper to the strap. Plate may be formed but it cannot double at any point. Do not abuse this rule or you will cut it. This strap must be on side of frame, not on the top or bottom.

36. Clarification on calls about rules or rules left out will be gone over the day of the event with the car builders.
37. *****Note: no outlaw/over built bodies/frames! Judges have final say! All cars must be built equal to the rules.**
38. **Do not patch anything other than the rust or a tear. If you over patch, you may not get to run.**

ANY QUESTIONS – BE SURE TO CALL FIRST!!!

There are risks and dangers associated with demo derbies which could result in bodily injury, disability, & even death.