

# 2021 Demolition Derby

## GENERAL RULES FOR ALL CLASSES

**PLEASE READ RULES WELL!**

**Changes in compact weld this year.**

For questions call:

General and Compact Weld: Kyle (320) 444-3607

Chain Stock and Full Size Weld: Cal (605) 949-0454

Light Trucks: Cal (605) 949-0454

1. Drivers must be at least 16 years of age and have a driver's license. The exception to this is Chain stock Class where 15 year old's can run. Driver's and Pit people ages 15, 16 and 17 must be pre-register and send a notarized release form.
2. **Entries will be accepted up to ONE hour prior to race time. You must be in the inspection line no later than ONE hour prior to race time. Late entries will be accepted up to 30 mins prior to race time, with a \$50 penalty. Entries later than 30 mins to race time won't be accepted. No exceptions. track discretion.**
3. Everyone entering the event area is required to sign their own name on the entrance waiver before entering the pits. This will be up to individual Track Discretion.
4. Drivers must wear seat belt and full-face helmet along with eye protection at all times while operating vehicle.
5. Drivers and pit crew must attend the pit meeting 15 mins before race time.
6. No driver or pit crew thought to be under the influence of alcohol or drugs will be allowed to participate, enter or remain in exhibition area. No alcohol in pit area before or during event! Violation will result in disqualification and forfeiture of entry fees.
7. No hot rodding in the pits. Keep it at an idle.
8. Fire extinguisher required in pits.
9. Drivers will have 1 minute to make a legal, metal-bending hit.
10. If your car dies you will be given 1 minute to restart car and make a hit.
11. Any open door or fire will cause disqualification for that heat.
12. **Any vehicle thought to be unsafe will be disqualified for that heat.**
13. No Sedagons, El Caminos, convertibles, hearses, limos, etc. No re-stubbing frames.
14. **Sandbagging and team-driving are not tolerated, and will be strictly enforced. This is your warning.**
15. **No intentional hitting of drivers door, or you're disqualified. Don't use your door as a shield. Officials will decide if it's accidental or carelessness. If disqualified in a heat, you may not compete in consolation heat/feature.**
16. Any questions or controversies will be discussed at the pit meeting.

17. Only the driver may speak with any questions or controversies (no pit crew).
18. All official's decisions are final.
19. ALL CLASSES MAY RUN HEATS DEPENDING ON TURNOUT, COME PREPARED.
20. 12" hole in the hood and 6" hole in trunk for inspection and fire department.
21. **Yelling at, use of profanity toward or interrupting an official will result in you being escorted from the event area. This includes your pit crew. Your entry fees/winnings will be forfeited and it will be the officials call if you're allowed to compete next year.**

## **GENERAL DEMO UNIT PREPARATION FOR ALL CLASSES**

**This is what you are allowed to do to your car. All rules are at official's discretion. Because we offer such a variety of classes, some general rules are overlapped in the class-specific rules. To make the rules as simple as possible: 1.) Class-specific rules trump the general rules. 2.) If it's not addressed in your class-specific rules, the general rules are to be followed. 3.) If it isn't addressed anywhere in the rules, assume that you can't do it. Any questions, please call first.**

### **BODY, FRAME, WHEELS**

1. No welding anywhere other than allowed in the rules.
2. No added weight to the vehicle. No plating, pinning, buffing, grinding, or packing any part of the car.
3. **No painting, undercoating, added grease/oil on frame or interior of vehicle. You will not even be inspected.**
4. See your specific class for allowances for frame or body alteration or reinforcement of any kind, other than allowed in the rules.
5. All outside hardware (door handles, chrome, moldings, mirrors, etc.) must be removed. All glass must be removed completely, none in bottom of doors.
6. You must have at least a 15"X 15" roof sign with your number on it, and on both doors. Roof sign cannot be attached or straddle roof hoop. Must be either in front of or behind not both. One sign only except 2 man extreme class.
7. All trailer hitches and braces must be removed. this includes all gooseneck parts.
8. Wheel centers allowed No split rims! No screws through the rim.
9. Wheel weights must be removed so they don't fly off.
10. No studded tires. Valve stem protectors allowed.

11. You may tuck/prebend/notch the rear of your car. Must remain safe!
12. No added bolts, screws, or body mounts, other than allowed in rules.
13. Body mounts may be removed, and replaced with no larger than 3/4" dia. 6" long with 6" max washers. 3/4" space must be between body and frame. NO more than 3" washers are allowed.
14. Interior body seams and window openings may be welded in all classes except chain stock/compacts and trucks. No added metal.
15. Body panel shaping is NOT allowed unless noted in your specific class rules.
16. Body and frame rust patching is allowed (take pictures before repairs) at official's discretion. You must leave the rusted panel intact, so it can be seen with a scope. The repair panel must be no thicker than the panel being repaired. Leave a spot unwelded to show thickness. May go 2" past the damage. **Don't abuse this rule, or you'll cut!** Call with questions.
17. Frame patching is allowed only on bent cars that **NEED** it (official's discretion). NO more than 8 patches total. (A total of 8 pieces of steel used for entire car). No bigger than 4"x4" or 3"x 5"x 1/8". **Must be able to prove bend!** Leave a spot un-welded to prove thickness.frame restubbing is allowed on prerans only. must be from same frame same year. **No added metal!**
18. Drivers door may be welded solid. May be reinforced but no further than 6" beyond the door seams.
19. All other doors must be secured shut in the way allowed per class.
20. You may bolt inner and outer fenders together. Max of 5 bolts per fender.
21. You may add up to 16 bolts to the hood. Max of 3/8" bolts with 1" washers.
22. Must have holes in hood for fires.
23. Must be able to see inside of trunk.
24. Must be able to open hood for inspection.

## **WINDOWS**

1. Windshield MUST have two straps, bars, or 3/8" chains from the roof to the cowl to protect driver. Straps/bars 3" wide max by 3/8" thick. Can only lap over cowl and roof 3". Must be 3" from any engine cradle, brace, or cage material may have crossover piece to tie two together if running a DP. **DP must pass freely through fire wall.**
2. Window grate allowed on driver side.
3. Cars with no posts may weld a 4" wide, 1/4" thick strap from roof to door.
4. One rear window bar is allowed in all classes **EXCEPT CHAIN STOCK and 2 man extreme**. Max of one 3"x 3/8" flat or C-channel or 2x2 tubing or 2" pipe. 6"x6" max endplates, Must be vertical, no more than 6" onto trunk lid and must be at least 12" from any cage component (**halo, gas tank protector**). Not allowed on hatchbacks or wagons.

## **POWERTRAIN**

1. Any powertrain may be used in any car, but the motor MUST be within 2" of the original motor. NO SETTING BACK OR RELOCATING MOTOR!!
2. Home-made driveshaft allowed.
3. Motor mounts may be chained or welded, but must not reinforce frame in any way. **Motor mounts must be a reasonable size and mount to engine cross-member only!!** one mount per side and one 4" wide plate to frame centered above stock motor mount holes.
4. You may use headers and floor shifters.
5. Differentials may be welded for posi.
6. Must have at least 2 working brakes.
7. You must have an air cleaner on at all times.
8. Radiator and fan may be removed, but not relocated to another part of the car. May use electric fans. No adding to the cooling system in any way. No home-made radiators or radi-barrels except where allowed in class-specific rules.
9. Mid-plates, distributor protectors, carb protectors, and steel bell housings/steel tailshafts are allowed in the Full-Size class. Call with questions.

## **SUSPENSION**

1. Suspensions must be completely original, other than allowed in the class rules.
2. No coil-over shocks, no altering shocks in any way.
3. Max of 4 leaf spring clamps total per side (including factory clamps). 4"x4", 1/4" thick max.
4. You may chain rear-end humps with one loop of 3/8" max chain per side.
5. Coil springs may be chained or wired in place.

## **INSIDE OF CAR**

1. Driver's seat must be securely mounted to the floor. If you're using bolts, they may not go through the frame.
2. May use home-made steering columns.
3. Transmission coolers allowed up to a reasonable size. If not left in stock location, they must be secured safely inside a container in the passenger compartment of the car. Must use transmission cooler hose or hydraulic hose (no fuel or low-pressure hose).
4. All flammable materials, except what's needed for driver's safety, must be removed.
5. Batteries must be relocated to pass floor. They must be mounted and covered securely. Max of two batteries. Battery box must be reasonable size inspector may make you cut it! The battery box and trans cooler must be attached to the floor or cage **not both!**

6. Holes in the firewall must be covered well.
7. Spreader bars must be no larger than 5 inch diameter 1 dash, 1 behind the driver's seat. Dash bar must be at least 8" away from engine and transmission. May connect the two, to form a 4-point cage, may run 4 down bars-they cannot be to or attached to frame. Down bars must be within front inner door seams. Cage material must be at least 3" off of the transmission tunnel. Door bars may be no closer than 6" to the rear wheel well.
8. Halo bars allowed and recommended. May not be angled backward, no kickers allowed, and attached to the spreader bars only. **MUST NOT ATTACH TO FRAME!**
9. Gas tank protectors allowed must be welded to the back of the spreader bar only, 6" max. pipe/tubing must be **free-floating** 3" min. from floor and 1" from back seat metal, 24"x 24" x 6" max dimensions.
10. If mounting on the floor may not contact the cage in any way. **MUST CHOOSE 1!**

#### **FUEL SYSTEM:**

1. Fuel tank must be located in the back seat area.
- 2. Must be very securely mounted and covered.**
3. No plastic fuel tanks allowed. Boat tanks or well-made fuel cells only. No relocating original tanks to inside of car. No fuel tanks larger than 14 gal.
4. Original fuel tanks must be removed.
5. Fuel lines must run inside of car, not under or along frame.
6. Fuel lines must be secure, and kept away from sharp/hot areas.
7. High-pressure fuel-injected cars must use adequate fuel line for the pressure.
- 8. Electric fuel-pump vehicles must have an emergency shut-off that is easy to locate in case of fire. Use fluorescent tape or paint.**

### **CLASS-SPECIFIC RULES:**

**Full-Size Weld Class**- Any standard passenger car, no '73 and older Imperials or Imperial sub-frames. No '69 and older Continentals, Thunderbirds and **NO '03 and newer Fords**, '98-'02 Fords may change rear suspension for watts conversion bottom brackets may be 4" x 4" welded to frame. top plates must be bolted to trunk pan with 4 ½' bolts 6"x 6" plates . Y-framers may not plate, only pinch and weld frame together. Buick, Olds, and Pontiacs may fill the large hole in frame behind core support. This must be a butt-fit one pass weld only. K-frames may be welded with two 3" long beads per frame rail (Four welds totaling 12" for entire K-frame)

1. ALL GENERAL RULES APPLY, WITH THESE EXCEPTIONS.
2. You may weld, chain, bolt, or wire the doors and trunk shut.
3. Door and trunk seams may be welded, 5" maximum weld, 5" min. gaps 3" wide plates.

NO SOLID WELDING!

4. The ONLY welding allowed on the frame is not more than a 3/8" wide bead on the top seam only, firewall forward. Do not weld the bottom seam. Ford products may cut tab on side of frame, tilt and reweld with a single 3/8 pass. No pie cuts and rewelding.
5. No welding inner and outer fenders together, inner fenders to frame, no adding extra bolts to inner fenders etc. No shaping or moving firewall.
6. Hood may be bolted, wired, or chained shut in 6 places max. Max of six 1" hood pins and 6" max washers. 2 at core support may go through the frame vertical not angled and other 4- 12" max length attached to sheet metal only. 5" long 2"x 2" angle can be used in place of a hood pin.
7. Trunk may use up to four 1" trunk pins with 4" max washers. Only two may go to frame. May also be welded shut, 5" on, 5" off.
8. Maximum of 9 leafs per side. Must be factory thickness and have factory step-down.
9. Rear coil springs may be interchanged or doubled.
10. Aftermarket tie rods Allowed.
11. Hybrid diffs. and 3/4 ton diffs allowed.
12. Weld class may run beadlocks

13. Bumpers, bumper shocks, and brackets may be welded and/or bolted to the car. Bumpers may be seam welded and stuffed. Front bumper brackets can be 3/8x4" flat strap butted to the bumper and ran to the front of the a-frame. No further or you will cut. Rear bumper/bracket must be an automotive style. Max bumper height 21" from bottom. Min is 16" from bottom. Bumpers can be made from a straight piece of 8" X 8" max tubing with a 4 inch point spread over 32 inches. 2 Bumper Brackets or shocks for front and 2 bumper brackets or shocks for back. **Homemade bumpers must conform to factory front and back contours.**

14. Two bumper shocks or brackets for the front, two for the rear. (No doubled brackets).

15. Front suspension may be welded with 2" strap 6" long 1/4" thick only, **1 per side! has to be 1 piece.** May not strengthen the frame! **OEM spindles only, No custom made! No SKI springs or equivalent.**

16. You may wire windows in 1 place per window opening 4 loops only. Must remain

within that window! Wire must go to the frame only (**NOT the Trans Crossmember**) in no more than four places. Washers may be welded in place to support the wire, 2" max.

17. Steel ultra-bells and steel tailshafts cannot be welded or attached to the body or trans tunnel.

18. Tranny braces may attach to the cross member with either one 3/4" bolt or two 1/2" bolts. If not using an automotive cross member you're allowed to use a piece of straight 2"x3"x1/4" tubing with a 6" plate in the center to attach a tranny. Leave ends open to prove thickness or 1/4 hole on both sides of transmission may not bolt through body tin or to pedal setup or battery box.

19. frame shortening is allowed.

20. Core support spacers can be 2"x 2" welded to the side or top of frame a max of 8 inch space between frame and core support. 1/4" or smaller expanded metal can be put in front of the radiator attached to sheet metal only in 4 places with 4 bolts with 1" max washers or 4- 2" x 1/4" flat strap attached to sheet metal only, 2- vertical and 2- horizontal

21. DPs can't be wider than 12". Must be at least a 3" gap between windshield bar and DP. **The firewall must be cut out full width of DP.**

**Compact**- May be up to 111" for FWD cars, 107" for RWD cars. 6 cylinder and less only. Leave VIN tag intact, to verify wheelbase.

1. ALL GENERAL RULES APPLY, WITH THESE EXCEPTIONS.

2. All parts must be of compact origin, except bumpers and rims.

3. Full-size bumpers allowed, may be seam welded and stuffed. Must be trimmed to width of car.

4. If you don't use or have the factory bumper shock, you may use a 2"x 2"x8" maximum square or round pipe. Call with questions.

5. You may wire windows in 1 place per window opening. Must remain within that window. Wire may go from a window to the frame in no more than 4 places. Washers may be welded in place to support the wire, 2" max. Welded to sheet metal only, not to the frame.

6. Maximum of 5 leafs per side. Must be factory thickness and have factory step-down. No leaf conversions.

7. Compact differentials only.

8. Aftermarket engine cradles allowed no "extreme" setups. Call with questions.

9. Distributor protectors, carb protectors, trans brace, valve cover protectors, fuel pump protectors, etc. are allowed, but cannot strengthen car or come into contact with any cage component at any time before/during/after the event. Call with questions.

10. Tie rod ends may be reinforced, but must start with originals (not home-made). A-arms may be bolted or welded with two 2" straps. Do not weld struts to the frame in

any way.

11. Only seam welding allowed is top uni-bodyseam center of the A-arm forward. No interior seem welding.

12. K-frames may be welded to uni-body no added material. Do not seem weld the K frame!

13. Door and trunk seams may be chained, wired, or welded shut, 5" maximum weld, 5" min. gaps. 5- 3/8" bolts are allowed in the drip rail.

14. Hood may be chained, wired, or bolted shut (pick only one). Max of six 1" hood pins with 6" maximum washers. Only two may go to frame. They may be welded in place.

15. Trunk may use up to four 3/4" ready rod with 4" max washers that may go to frame. They may be welded in place. May also be welded shut also, 5" on, 5" off.

16. Back window bar is allowed 2"X2" max. 6"X6" attachment plates may be bolted or welded to roof (flush with window opening) and centered on trunk/speaker deck seam. Call with questions.

**Chain Stock**- Must be 1978 or newer GM vehicles and 1981 or newer Ford or Chrysler vehicles. '98-'02 Fords may change rear suspension for watts conversion bottom brackets may be 4" x 4" welded to frame. top plates must be bolted to trunk pan with 4 1/2' bolts 6"x 6" plates . Leave VIN tag intact, to verify year. No 03 or newer ford products.

1. ALL GENERAL RULES APPLY, WITH THESE EXCEPTIONS.

2. THIS IS THE "PURE STOCK CLASS"

3. No old iron parts of any sort allowed.

4. No sedagons.

5. **No tilting/tipping/pitching/pre-bending front frames. Body must have no added space between core supports or crush box to frame. If the factory geometry is altered, it stays on the trailer. Pre-rans are at official's discretion. Call first.**

6. You may chain or **(wire 4 loops)** your doors, trunk, and hood shut. **NO WELD.**

7. Max of 3 chains per door, 4 chains for hood, and 4 chains for trunk.

8. May run 2 hood pins at core support 1 inch max

9. No trunk pins allowed.

10. **Bumpers may be welded straight to the frame or you may run stock bumper shock to the car but may not move the shock back in any way. the farthest back**

**bumper shock bolt must remain in stock position. may shorten up to the front body mount. do not cut the front mount at all!**

11. Any year bumper can be ran but cannot be seam welded or stuffed!

12. Front suspension may be bolted with 1-3/8" bolt per side or 1 piece 2" x 3" – 1/8 inch thick steel per side.

13. Engine cradles allowed no "extreme" setups. Can't reinforce the car! No DPs, tranny protectors, or any other protectors or reinforcement of any kind Call with questions. Carb protectors must be at least 3" from firewall.

14. 12 bolt rear ends are allowed, no bracing or multi-brackets.

15. Body mounts can be replaced with 3/4" bolts or smaller. Washers can be no larger than 6"x 1/4" thick and cannot be welded in place! Must have at least a 1" spacer no more than 3" in diameter max between frame and body.

16. No hard body lines allowed. May tuck trunk. **May dish trunk 2" we will measure!!!** No rear window bar allowed. Sides may be knocked in but not Excessive (if you have questions ask)!

17. **pulley protectors are allowed if the swaybar is cut out.**

**Light Truck**-1973 and newer trucks only. No older cabs, boxes or frames allowed. 4x4 or 2wd allowed, 4x4's must have front driveshaft removed. Suburban, Broncos, Expeditions and Blazers allowed. **1/2 ton or 3/4 ton trucks only.**

1. ALL GENERAL RULES APPLY, WITH THESE EXCEPTIONS.

2. You may weld, chain, or wire the doors and tailgate shut (pick only one)

3. Only the exterior seams may be welded, 5" max weld, 5" min. gaps. Box and cab may be welded together 5" weld 5" gaps.

4. No extreme cradles, no mid-plates, no D/Ps unless firewall is cut out (Officials Discretions), no extra cross members, brackets or braces. Transmission braces are allowed. Original trans cross-member can be replaced with 2" x 2" x 1/4" tubing.

5. You may use a total of 8 bolts for the box 6 bolts for cab. Bolts can be no more than 1" in size. 6" max washers must be welded to side of frame may not create a pin in any way.

**6. Rollover bar REQUIRED for truck classes. Make it safe, but may only be two feet back from uprights. May not be directly attached to the frame. may not be connected to cage material, must be 3" gap**

7. Hood may be bolted, wired, or chained shut. Max of six. Bolts can be no more than 1" in size. Ready rods with 6" max washers. Only front 2 may go to the frame.

8. Transmission coolers allowed up to a reasonable size. If not left in stock location, they must be secured safely inside a container in the passenger compartment of the truck.

Must use transmission cooler hose (no fuel or low-pressure hose).

9. Front suspension may be made solid, but must not reinforce the frame.

10. Maximum of 8 leafs per side. Must be factory thickness and have factory step-down. You may have 4 leaf spring clamps per side TOTAL!

11. A stock truck or car bumper may be used on front. If a car bumper is used, a max size of 6"x 6"x 3/8 thick plate can be used as a bracket. NO BIGGER OR THICKER! Front and back bumper may be factory stuffed bumper. Everything must conform and be inside of original bumper.

12. No differential bracing. No split rims!

13. Frame patching is allowed only on pre-ran trucks that need it (official's discretion). 8 patches total for entire truck. No bigger than 5"x 5", no thicker than 1/4". Must be able to prove bend. Leave a spot un-welded to prove thickness. Patches can't be welded in a manner that "boxes the frame"

14. pre run trucks may re-stub frames with the same vintage and make of frame. This is to be done with a single weld seam and no adding metal. do it right the 1st time.

14. Bumpers may be no higher than 28" high, measured at the **TOP**.

15.. No home-made radiators/radi-barrels or added metal to core support.

16. rollover bar

## **2 Person extreme 80's and newer – Track Specific!!**

2 drivers will be in the car. 1 in the driver's seat and 1 in the passenger seat. The driver will have the steering column and passenger will run the brake and gas pedal. The shifter can be ran by either driver. No pedals on driver side allowed. The passenger must have a steering wheel or a Tee-bar to hold on to. Paint both front doors contrasting color. No hitting either front door.

1. ALL GENERAL RULES APPLY, WITH THESE EXCEPTIONS.

2. THIS IS THE "PURE STOCK CLASS"

3. No old iron parts of any sort allowed.

4. No engine cradles, tranny braces, braced rear-ends. No tranny coolers! **Stock rear-ends and suspension only!**

5. 4 point floating cage with fuel tank protector. Battery and fuel tank must be secured behind front seat on floor safely.

6. Can weld and reinforce front doors. 2 strands of 3/8 chain or #9 wire for windshield straps for drivers protection.

7. Hood can be chained in 4 places. Doors 2 per vertical seam. No hood pins or angle

iron.

8. Steering must be totally stock (do nothing)!

9. Bumpers can be welded to shocks; brackets must be bolted to frame. Any question call. **80's bumpers only**

10. Body mounts must remain stock if broke or rusted can replace with two strands of #9 wire.

11. Front suspension may be bolted with 1 3/8" bolt per side or 1 piece 2"x 3", no more than 1/8" thick steel per side.

12. **slider driveshafts are allowed!!**