

# DEMOLITION DERBY

Saturday, July 31, 2021 – 7:30 pm

## Classes:

1. Full Size “Heavy Hitter”
2. 1980’s & Newer “Welded Class”
3. Full Size Car Stock-Chain-n-Go
4. Full Size Truck/SUV
5. Combined Mini-van/Compact Pick-up  
Truck/Mini-SUV Class
6. Front Wheel Drive Class
7. Small Car Class

## Premiums:

- 1<sup>st</sup>-\$ 500; 2<sup>nd</sup>- \$250  
1<sup>st</sup>-\$ 1,000; 2<sup>nd</sup>- \$250  
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**ENTRY FEE:** If registered by Wednesday, July 28 **\$20.00** admit driver and mechanic. After Wednesday, July 28 \$30.00 admits driver only; Weekly pass or Weekly Track Passes are not good at Cornwall Road gate.

## **DEMOLITION DERBY GENERAL SAFETY RULES**

Please read these rules carefully! They will be enforced! If you don't see something in the rules, that doesn't mean you can do it. Please consult an official by calling (717-821-8170) to answer any gray area questions. Thank You!

### CAR PREPARATION

1. All dirt, glass and loose parts must be removed from the car. Do not leave glass in doors. Air bag safety system activation charges must be disabled.
2. All glass including head and tail lights must be removed except front windshield. Removal of front windshield is optional. All sunroofs must have glass removed and covered with sheet metal (14 gauge maximum) attached with bolts and nuts. No self-tapping screws.
3. All chrome molding, rear seat, headliner, sun visors and rear view mirrors must be removed.
4. All outside plastic and grill must be removed including factory nosepieces.
5. **No** bumper or frame mounted hitches allowed.
6. **No** steel fan blades allowed, plastic engine fans or battery operated fans are allowed.
7. All air conditioning systems must be drained and rubber hoses removed prior to arrival at track.
8. All wheel balancing weights must be removed, including inside of wheels.
9. No obscene signs or lettering allowed on vehicle.

### BRAKES

1. All vehicles must have brakes in good working order, pinion brakes allowed.

### BUMPERS

1. Any year car bumper is permitted, must be same width as vehicle being used.
2. Bumpers cannot be reinforced, no sharp edges or pointed bumpers allowed.
3. You can weld stock brackets to bumper and to frame, no additional metal may be used. No fabricated or homemade bumpers allowed. Bumpers can be chained to frame with holes cut in bumper. (maximum 2 locations)

**FRAME** – No reinforced or concrete filled frame rails are allowed. Frame patching for rust will be allowed but must be minimal and not disguised for strengthening frame (maximum 10 gauge material allowed.)

## FUEL TANKS/BATTERIES/COOLANT SYSTEMS

1. Stock gas tank must be removed from car.
2. A maximum of 3 gallons of pump gas only allowed, no alcohol fuel allowed. A 5-gallon approved metal container must be securely fastened with metal or chain in the area vacated by the rear seat. **No** self-tapping screws, **no** rubber hold-down straps or nylon ratchet straps allowed. Marine type gas tank highly recommended. Approved marine-type plastic tanks permitted. Fuel tank must be accessible during inspection if using a fuel tank cover. All electric fuel pumps must be operated by the key switch (on-off) or a painted red toggle switch easily accessible by track crew.
3. Fuel tank protectors are allowed, rearward support bars permitted, must **NOT** extend more than 30 inches from rear of driver's seat, must be attached to floorboard, not the frame of vehicle.
4. Battery must be securely fastened with metal straps or chain to front seat passenger's floorboard. **No** self-tapping screws, **no** rubber straps or nylon ratchet straps allowed. Top of battery must be covered with a secured rubber mat.
5. Engine cooling systems must be original equipment or less and must be located in the engine compartment under the hood. **No** auxiliary tanks allowed. Radiator overflow hoses must be exit downward. Prior to bringing vehicle to track, all anti-freeze must be drained and system back flushed and filled with water biodegradable coolant.
6. Transmission coolers enclosed in a metal box may be installed in back seat area mounted securely to the floor. All lines must run thru floor of vehicle and be protected when passing through sheet metal.
7. All fuel lines must run thru firewall or underneath vehicle. No fuel lines are allowed to run over the dash. Use 2 clamps at each hose connection, fuel line must be protected when passing through sheet metal.

## HOODS/TRUNKS/DOORS

1. Inner drive door upholstery panel or padding is highly recommended.
2. External reinforcement of driver's door is strongly recommended. Reinforcement plate (maximum of ¼" steel plate 12" high) welded or bolted to the driver's door plus maximum of 8 inches past vertical seams of driver's door will be allowed in all classes. (**No** steel bars or tubing).
3. All doors must be fastened shut by a chain, cable or welded when permitted. Minimum ¼" chain or cable, maximum 3/8" chain or cable. (No electrical wire allowed). If door comes open, driver is stopped and disqualified.
4. Hood and trunk lids must be opened for inspection. (This includes rear inner deck of station wagons).
5. Hood, truck or rear station wagon door must be secured after inspection (all 4 corners). Minimum ¼" or maximum 3/8" chain or cable, no electrical wire allowed. **No** "X"-ing of chains or cables on hood or trunk. **No** ready rod to frame connections.
6. There must be a hole in the hood of the car that measures at least 12 inches in diameter above the carburetor.
7. Exhaust existing through hood is allowed, must be within 10 degrees of straight up.
8. **All cars must have vehicle numbers clearly painted on each side and on the roof of vehicle. Number must be visible to the announcer. Car number must match number on entry form.**
9. **Painting the driver's door white is highly recommended.**

## TIRES/WHEELS

1. **No** ag., industrial, utility, dirt bike or recapped tires allowed on drive axles. **No** studded tires, tire liners or heavy truck tires allowed.
2. **No liquid or concrete filled tires allowed.**
3. All tires are subject to the Tech Inspectors judgment.

## **OPERATION OF CONTEST**

1. All drivers must wear DOT safety helmets securely fastened. Full-face helmets and factory installed shoulder strap seat belt highly recommended. Lap safety belts are required and must be worn until heat is completed. Long trousers and long sleeve shirts required. Eye protection required for open-face helmets. SFI fire suit, gloves and racing neck support strongly recommended!
2. Drivers must stay inside the car and keep helmet on until heat is completed, unless instructed otherwise by track officials. **No** two way radios between driver and other persons allowed.
3. **No** deliberate head-on collisions or deliberate hitting the driver's door. Doing either of these will result in disqualification. If you use your driver's door to draw a door hit, we will not enforce this rule
4. You may drive forward or backward, but must make contact or be disqualified.
5. Any vehicle deemed unsafe by track officials during the event will be stopped and disqualified. Any vehicle which does not move for one minute will be disqualified. Sandbagging can result in disqualification.
6. Any vehicle throwing shredded tire debris toward grandstands will be stopped and disqualified.
7. Demo Derby is **not** a team sport. Team driving will not be tolerated by officials and can result in disqualification.
8. Heat winners must run same car in Feature. Track officials reserve the right to fill feature events with additional vehicles if finalist cannot return.
9. No passengers riding on or in demo derby cars or tow vehicles at any time. This includes pit area, parking lot and driveways.
10. Maximum 5 MPH speed limit must be maintained at all times in pit area, parking lot, driveways. Automatic disqualification for reckless driving in pit area, parking lot, or driveways!
11. No profanity will be allowed painted on cars. All painting & wording must be suitable for family event.
12. The only people allowed on the track at any time will be drivers, officials and towing personnel.
13. Any driver not obeying the rules will be disqualified.
14. **Official's decision is final!**
15. **Most importantly – Be Safe – Have Fun!**

The rules and regulations set forth herein are designed to provide for the orderly conduct of competition events and to establish minimum acceptable requirements for such events. These rules shall govern the conditions of all events, and by participating in the events, all participants are deemed to have complied with these rules. **NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS.** They are intended as a guide for the conduct of the sport and in no way guarantee against injury or death to a participant, spectator or official.

The event director shall be empowered to permit minor deviation from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. **NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERNATIONS OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

The Management of the Lebanon Area Fair

# DEMOLITION DERBY

## CLASS RULES:

**Full Size Car  
"Heavy Hitter" Class**

All factory hardtop automobiles and station wagons.  
No hearses, limos, ambulances, SUV's.

All general safety rules apply plus the following:

1. Welding or plating door seams will be allowed on outside only. (maximum 10 gauge material x 3" wide).
2. Frame patching for rust will be allowed but must be minimal and not disguised for strengthening frame (maximum 10 gauge material).
3. Body patching (maximum 14 gauge material) for rust or damage will be allowed but must be kept at a minimum and not disguised as plating or strengthening . (Tech director's discretion).
4. Engine swaps allowed. Cars must have original firewall, heater housing holes, etc. Must be covered (maximum 14 gauge material) but must be kept to a minimum and not used for strengthening. Full engine cradles with pulley & distributor protectors are allowed. Engine must be in original location. **No** reinforcing frame for engine cradle, **No** supports from dashbar to engine cradle.
5. Roof to trunk support bars are **not** permitted.
6. **No** rear wedge shaped cars (intentional crushing of rear quarters and trunk to create a solid wedge effect will **not** be permitted).
7. Intentional crushing roofs and rear station wagon bodies to create a solid rear section will **not** be permitted. **No** pre-bending any sheet metal for reinforcement.
8. One (optional) windshield safety bar will be allowed to protect driver from hood entering the driver's area. Must be mounted from roof to firewall (cowl) on same plane as original windshield within 8" of center of vehicle. Maximum size of safety bar is 1" square.
9. **Optional Driver Protection Methods:** Highly Recommended! Maximum 4" round or square steel tubing or 4" steel channel- maximum 3/8" wall thickness. One under dash side to side bar. One crossbar behind driver's seat attached at the door pillars. Driver & passenger door bars connecting dash bar to seat crossbar located min. 12" above door rocker panels, no higher than window opening. No parts of this cage can be attached to the firewall, frame or flooring. Maximum endplate size for dash bar and seat crossbar mounting is 6" x 6" of 1/4 inch.

### **OR**

One under dash side to side bar. One side to side diagonal hollow pipe (min 3"OD/Max. 6"OD) behind driver's seat. Mount pipe approx. 12" above floor on passenger side angled down to floor/body seam on driver's side with maximum 1/4" thick plates welded on each end. Maximum plate size 8" x 8", plates cannot be attached to frame, must be securely welded to the interior of the car. Passenger door side bar can be connected to dash bar. No other bars can be attached to this assembly.

### **10. Optional Rollover Protection:**

Option #1- Mount vertical 4" tubing /channel to either the door bars or seat crossbar inside of car with one connecting bar on top of roof.

Option #2- Inside of car vertical 4" tubing with 6" x 6" plates top and bottom at least 10" from side of vehicle behind driver and bolted to roof and floorboard. (maximum 4 bolts each plate). Do not bolt to frame rails. Do not weld to floor or roof.

Steel Thickness:  
10 Gauge is .135 thick  
14 Gauge is .075 thick

**1980'S & NEWER  
"CLASS"**

1980 & Newer hardtop automobiles and station wagons.  
**No** hearses, limos, ambulances, SUV's.

All general rules apply plus the following:

1. Driver and passenger doors may be welded shut with maximum 12 inch of weld (3-4 inch, 2-6 inch, etc.) per door and driver's door general safety rule #2. No welding on horizontal seams.
2. **No** frame reinforcements, cars with excessive frame tilting and modifications for reinforcement will be bumped up to heavy hitter class at the discretion of the tech crew.
3. Coil spring to leaf spring conversions are allowed. No Truck leaf springs allowed.
4. Heavy Hitter Rule #4.
5. Heavy Hitter Rule #5.
6. Heavy Hitter Rule #6.
7. Heavy Hitter Rule #7.
8. Heavy Hitter Rule #8.
9. Heavy Hitter Rule #9.
10. Heavy Hitter Rule #10.

**FULL SIZE CAR CLASS  
STOCK-CHAIN-N-GO**

All factory hardtop automobiles and station wagons.  
**No** hearses, limos, 69 and older Lincoln Continentals, Imperials, ambulances, SUV's

All general rules apply plus the following:

1. Stock means Stock- no reinforcements to body or frame except driver's door (Rule #2) in general safety rules.
2. **No** welding except for optional driver protection, dash side to side bars, behind driver seat crossbar & connecting door bars located min. 12" above door rocker panels, no higher than window opening. **No** parts of this cage can be attached to firewall, frame or flooring.
3. Optional Rollover Protection- inside the car vertical 4" tubing with 6" x 6" of 1/4" plates top and bottom at least 10" from side of vehicle behind driver and **bolted** to roof and floorboard (maximum 4 bolts each plate). **Do not** bolt to frame rails. **Do not** weld to roof or floor.
4. Engine swaps from different manufacturers are allowed. Engine must remain in original location, lower engine cradle can be used but no pulley protectors or distributor protectors allowed.
5. Ignition switch & shifters can be modified. Ignition switch must be marked with red paint.
6. All doors must be fastened shut by chains or cable. Chain & cable size (minimum 1/4" and maximum 3/8"). **No** electrical wire allowed.
7. Hood & trunk must be secured after inspection by chains & cable (minimum 1/4" and maximum 3/8").
8. Coil spring to leaf spring conversions are **not** allowed in this class.

**FULL SIZE STOCK-CHAIN & GO CLASS, COMBINED MINI-VEHICLE CLASSES,  
FRONT WHEEL DRIVE CLASS, SMALL CAR CLASS.**

Optional - Side to side hollow pipe (maximum 3" O.D.) behind driver's seat will be allowed. Mount pipe approx. 12" above floor with maximum 1/4" thick 4x4" end plates welded or bolted securely to interior of vehicle. Crossbar cannot be connected to fuel tank or fuel tank protector.

## Full Size Truck/SUV

All general safety rules apply plus the following:

1. No fans of any sort.
2. Any full-size 2wd or 4wd Pick-up or SUV ¾ ton or less no dually's (for 4wd must remove front drive shaft) (**NO** utility boxes or flat beds).
3. **NO PLATING OF FRAME OR BODY** ..... You may put a plate on driver's door it can extend no further than 6" front or back of door seam and no taller than 18" and no more than ¼" thick.
4. Any driveline may be used and you may run full cradles and trans braces. But cradles and brace can only attach to stock mounting locations.
5. Bumpers – You may run a car bumper or 4x4 SQ tubing up front cannot be load must see through. For mounting of front bumper you may run car shocks or 3x3 tubing on outside of frame no more than 6" long. Back bumper must be stock pickup truck bumper.
6. Cage and Halo 6" max material **IT CANNOT BE CONNECTED TO FRAME IN ANY WAY PERIOD** sheet metal only a gas tank protector can be used on pickups only. It can only extend into bed 30" and no wider than 30" must be center of bed right behind cab.
7. Doors and tailgates maybe chained or welded no more than 3" on 3" of driver's door can be welded solid.
8. Hoods can be held down in 6 locations the front 2 may go through rad support and to the frame 1" bolt or all thread max. Must have a 12 x 12 hole in hood.
9. Bed sides must be vertical. No wedging of any kind. Tail gates maybe dropped to bottom of bumper.
10. Any 8 lug or smaller rear maybe used.
11. Truck may not be any higher than 24" from bottom of front bumper to ground and no lower than 20" from bottom of rear bumper to the ground.
12. **NO V-Treads.**
13. Beds must be made fast to cab if weld no more than 3" wide strap. On pickups you may add 4 extra bed bolts 1" bolts and 6"x6"x1/4" plate max.
14. Body mounts can be removed or replaced you can use 1" bolts and 6"x6"x1/4" plate max only in stock locations no extra body mounts.
15. Suspension maybe solid 1" all thread or 1"x1" sq. tubing for shocks also can put 1 pc. of 1"x1" tubing from upper to lower control arm per side.
16. **Remember frames and bodies must be stock unless stated in rules.**
17. **Push the rules and you won't run.**

## Combined Mini-van/Compact Pick-up Truck/ Mini-SUV Class

All general safety rules apply plus the following:

1. 4WD vehicles must have one driveline disconnected (your choice).
2. Must have original engine for vehicle.
3. Vehicle must be original, **no** modifications, **no** reinforcements. Driver and passenger doors may be welded max. 12 inches of weld (3-4 inches, 2-6 inch, etc.) on each outside vertical seam and driver door general safety rule #2. No welding on horizontal seams.
4. Mini-van side door and rear door openings can have maximum of (4) 3 inch wide x 4 inch welded plates (maximum 10 gauge material) per opening. Opening may be 2 doors or 1- maximum of (4) welded plates.
5. Mini-van/SUV driver/passenger doors and SUV tailgates must be welded, chained or cabled (minimum 1/4 inch and maximum 3/8 inch). No electrical wire allowed.
6. Pick-up truck must use factory bed. Tailgate if used must be welded, maximum of (4) 3 inch wide x 4 inch (maximum 10 gauge material). Bed may also be reinforced to frame in (6) additional locations with nuts/bolts maximum 1/2 inch or (6) 4 inch long welds. Bed can be attached to cab, maximum (4) nuts /bolts or (4) 4 inch long welds.
7. **No** midsize trucks, SUV's or vans allowed.
8. Battery must be relocated per general rules.
9. Mini-vans/ SUV's- Original gas tank must be removed and approved gas container must be relocated per general rules.
10. Pick-ups- Original gas tank must be removed and approved gas container must be relocated to the front/

center of the bed and securely mounted per general rules. Extended cab pick-ups can relocate gas tank to rear seat area.

11. 2 Door pick-ups must have additional padding behind the driver's helmet location.

12. If dash is removed, an optional 3 inch max. hollow pipe dash bar can be installed.

#### **Front Wheel Drive Class**

All general safety rules apply. Factory front wheel drive, V-6 engines, mid-size cars. Driver and passenger doors may be welded shut with max. 12 inches of weld (3-4 inch, 2-6 inch, etc.) on each outside vertical seam and driver's door general safety rule #2. No welding on horizontal seams. Any type factory small car bumper is allowed.

#### **Small Car Class**

All general safety rules apply. Factory installed 4 cylinder engine, maximum wheelbase 105 inches. Driver and passenger doors may be welded shut with max. 12 inches of weld (3-4 inch, 2-6 inch, etc.) on each outside vertical seam and driver's door general safety rule #2. No welding on horizontal seams. Any type factory small car bumper is allowed.