



## Galax Volunteer Fire Department

### 2024 Demolition Derby Rules

Saturday July 13<sup>th</sup>, 2024 – Galax, VA

All rules will be enforced by the Galax Fire Department Motorsports Committee. All decisions by the committee will be final.

- – V8 Modified Rules
- – Stock V6/4 cylinder
- – Mini van/SUV/Mini truck
- – Stock V8

#### RULE BOOK DISCLAIMER

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

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his/her opinion does not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

-Galax Fire Department Motorsports

Read and re-read ALL rules carefully, do not twist or bend these rules. If it doesn't say you can do it, don't assume that you can, ASK first or don't do it! . All Judges' decisions will be final!! Use common sense!!! Please call or text Jason @ 276-233-2527, Peyton @ 276-237-5063, Matt @ 276-237-6299 or email [jbowers@ballardrealty.net](mailto:jbowers@ballardrealty.net) or [mcoomes320@galaxfire.com](mailto:mcoomes320@galaxfire.com) if you have any questions on any of these rules.

**To stay up to date on any information regarding the races, please follow Galax Fire Department on Facebook and Instagram.**

**Our website is [www.galaxfire.com](http://www.galaxfire.com). You will be able to pre-register all cars here.**

**-Pre-Registration is OPEN and RECOMMENDED. Entry fee will be \$50 per car. You may pre-register online at galaxfire.com**

**-Cars may be denied entry or removed from races/heats for any violation of the rules.**

**-All drivers and anyone in the pits will be required to sign a liability waiver. People under the age of 18 will need a guardian to sign a liability waiver for them.**

**-Drivers or Pit Crew are NOT allowed on the stage at any time. At NO time will they be allowed to enter the announcers stage or walk up on it unless asked by a track official. If any driver or any of their pit crew is on the stage without being directly asked by a track official, the driver will be automatically disqualified.**

**-Drivers are NOT allowed to get out of their cars during any race unless directed by a track official.** Drivers are NOT allowed to work on their cars during any race unless the track officials have stopped the race and that is the reason the car will not start back. If the car stops running before we stop a race the driver is NOT allowed to work on the car. If a track official stops the race and that is the reason the car will not start back the driver will be allowed a reasonable amount of time to restart it. That time will be determined before the races start. However, if the driver can get the car started from inside the car they are allowed to do that at any time and continue the race.

**-Each Race/Heat will be filmed from the stage in case there are any questions/concerns about the finish and placing of cars.**

**-Opening Ceremony will start at 5:30 pm with the derby to follow**

**-Racers will be allowed to work on their cars between heats and races until the time for them to be in the staging lanes for the next race. Drivers MUST race the same car, NO exceptions!**

**-Pit gate will open at 12:00pm on Saturday July 13th. You will have to pay for the car and additional wrist bands before entering pits. Drivers meeting will be at 4:30 pm and cars must be registered by 4:30pm on Saturday night before the drivers meeting or you will not be allowed to race. All drivers must attend the drivers meeting.**

**-There will be an entry lane on the track and a separate exit lane off of the track. Racers for the next heat will be REQUIRED to have their car in the entry lane prior to the last car coming off of the track from the previous heat or they will be disqualified.**

**-Drivers may enter more than one car and drive more than one car. However drivers will not be allowed to put different cars in different heats if a previous car breaks down or is no longer running. Once a car starts a heat that car must finish that heat (race) or the driver is no longer allowed to race.**

**-HELMETS (DOT REQUIRED, NO EXCEPTIONS) and IMPACT RESISTANT EYE PROTECTORS are required.** Driver can be disqualified at any time if either belt or helmet is removed during heat. Drivers must wear long sleeve shirts and pants or coveralls (it is suggested that you consider wearing a fire suit or some type). No electronic communications between driver and any other individuals are permitted. **NO TWO WAY RADIOS!!**

**-WINDOW NETS are recommend but are not required.**

## V8 Modified Rules

### Type of Car

- Any 2 wheel drive hard top or station wagon is allowed. NO CONVERTIBLE OR JEEPS ALLOWED. No 4X4's, AWD, SUV's, vans, convertibles, T-Tops, El Caminos or any model with a truck bed.

### Trim and Glass

- All glass, chrome, plastic and molding must be removed from the car.
- All wheel weights must be removed.
- Vehicle must be swept clean. No junk tires, wheels, metal parts, broken glass, etc allowed in the car.

### Gas Tanks

- All tanks must be removed from under the car.
- No plastic gas tanks.
- Gas tank must be a steel tank.
- Gas tanks must be in back seat area secured to body of the car and covered.
- Gas tank protectors are allowed. They cannot support or be tied into the frame of the car or support the door of the car in any way.
- Gas tanks must be securely fastened and covered.
- Any car leaking gas in any way is subject to disqualification from the event.

### Rear Suspension

- Leaf springs are allowed on any car.
- You can weld spacer blocks to set height of the car (Spacers cannot reinforce the frame in any way)
- No more than 7 leafs and no wider than 3 inches.
- No more than 6 clamps per side.
- Rear bumper height no lower than 18 inches from bottom of bumper.
- Aftermarket suspension parts are permitted, part must not add additional bracing from factory part.

### Front Suspension

- Front suspension may be locked or welded.
- A arms only may be welded directly to the frame (No adding of metal or reinforcing of the frame)
- Front bumper height no more than 24 inches from bottom of bumper

- Leaf Springs may be run, No more than 7 leafs and no wider than 3 inches
- If leaf springs are run in the front you have to run a straight axle
- No more than 6 clamps per side
- Aftermarket suspension parts are permitted, Part must not add additional bracing from factory part.
- Reinforced or aftermarket tie rod ends and draglink permitted
- Anh passenger car steering box is allowed. If you use a different steering box other than factory it must be mounted to the frame. You may make a bracket for the steering box to mount to the frame. You may weld the bracket to the frame. No adding metal, gussets, or bracing other than the single bracket to the frame

#### Doors

- All doors may be welded solid with flat bar no larger than 1/4" thick X 3 inches wide
- Door may be wired or chained

#### Trunk

- Truck seams may be welded solid with a strap no larger than 1/4" thick X 3 inches wide
- Truck may be pre-bent or tucked
- You can run a bar from the roof to no further than half of the trunk lid

#### Cage

- A cage is mandatory. It must consist of a drivers door bar and a passenger door bar, bars no smaller than 4 inch wide and no larger than 12 inches wide. You must run a front and rear bar from door bar to door bar and it must be no smaller than 2 inch and no larger than 6 inch. If you have down bars off of your cage they must be welded to sheet metal only. You may tie the driver side door bar to the frame (drivers side only). It must be straight off of the door bar to the frame.
- Gas tank protectors may be run, no larger than 4 inch bar run from end of door bar to end of door bar and a 4 inch bar run on both sides of the gas tank
- Rollover bars are permitted. Can be welded to cage. Cannot be welded to the frame.
- (2) Kickers are allowed no larger than 2 inch. They must run from front dash bar to frame rail just behind the A arms. If the kickers are larger than 2 inches you will be required to remove the kickers. No exceptions to this rule. If you are running a Chrysler Imperial or Ford Crown Victoria Police Car or Emergency Service Vehicle with a P71 frame you cannot run any kickers.

#### Hood and Core Support

- Core support may be bolted with all thread rod no larger than 7/8". You can run it all the way from the frame through the hood
- Wire, chain or bolt the hood down in 6 spots. The all thread through the hood count as (2)
- A 2ft x 2ft hole must be in the hood for fire detection

## **Battery**

- One battery of any size is permitted in the front passenger floor board
- Battery must be secured and covered

## **Tires**

- Any tire is permitted, NHS tires and skid steer tires are permitted
- No studded tires, no screws in rims
- Valve stem protectors are allowed
- Solid, foam filled and double tires are allowed
- No steel plate tire protectors over tires or attached to rim

## **Radiator**

- Radiator must remain in the stock position
- Water tanks and water barrels permitted (must remain in the stock location)
- Water tanks and water barrels can be welded or bolted to the core support
- Water tanks and water barrels can be welded to the frame in two spots on each side of the frame (CANNOT BE WELDED SOLID TO FRAME ON EITHER SIDE)
- Water tanks and water barrels cannot be mounted to the bumper

## **Bumpers**

- Any passenger car bumper may be used
- You may use a homemade bumper. It must be no bigger than 6"x6"x3/8" wall for tube steel and 6 inch SCH 80 pipe 3/8" wall thickness
- If you fabricate your own bumper it must be a straight piece of metal, no V or sharp points. Ends must be left open. (Do not cap the ends of the fabricated bumper)
- Bumpers cannot be wider than the car or fenders. (Measurement will be based off of the narrowest width part of the car)
- You may hard nose your frame. You may weld a 1/4" thick plate non longer than 10 in per frame rail measuring from the back of the bumper and no wider than the frame width. Your preference on top, bottom, or side of the frame. You may weld 1/4" thick x 12" long bumper horns to both sides of the frame in place of the 10" plate. Bumper horns must not be wider than the frame. Bumper horns may be welded solid.
- Stock bumpers may be loaded. Must have bumper skin on it.

## **Rear Differential**

- Differentials of any make up to 3/4 ton trucks can be used
- Differentials may be braced from backing plate to backing plate only

- No excessive bracing on any make or model of differential

#### Windshield

- You must have at least one bar, chain or wire attached to the roof of the car and to the firewall of the car for protection from the hood.

#### Body Mounts

- Body mount bolts cannot be larger than 5/8. Except for the 7/8 all thread rod going from the frame to the hood thru the coil support
- No extra body mounting bolts
- Washers cannot be larger than 2 inches made from 1/4" plate
- You can run the body mounts thru the bottom of the frame

#### Body

- No additional or extra metal can be added to the body of the car
- If you are running a pre-run car you can patch sheet metal of same thickness and not to exceed 2 inches past tear in the sheet metal
- Fender and quarter panels can be bolted. No additional metal may be added. Bolts can only be bolted to the sheet metal of the car. No limit on size or quantity

#### Frame

- Frame tilting is allowed. No additional metal added to the frame
- A arms may be welded directly to the frame. No additional metal or steel support on the frame or the A arm
- Rear hump plates are allowed only on cars running coil springs. Rear hump plates cannot be larger than 4 inches wide by 2 feet long by 1/4" thick
- You can weld the hump solid. No filling in of factory frame holes
- If you are running a pre run car and you have a torn or bent frame you can patch that area where it is bent or torn with 1/4" plate. Patch cannot exceed 1" past bend or tear. You can weld the patch plate solid
- Cannot weld any bar or support from drivers frame rail to passenger frame rail with the exception of the transmission cross member and the rear or the engine cradle support
- NO ADDITIONAL METAL ADDED TO THE FRAME
- NO LOADED FRAMES. FRAMES MUST BE EMPTY

#### Engine Protectors

- Engine protectors are allowed

- Engine cradles and protectors can be supported from the factory engine cross member for the front engine support. Engine cradle and protector can be supported from the frame for the rear engine support. On the rear engine cradle support it can only have one support per side and the support cannot go past the front body mounts
- Engine cradles and protectors must tie into the frame by bolting or welding. No adding of additional metal or support to the frame from the engine cradle or engine protector
- Engine cradles or protectors must not tie into the frame or support the frame in any way except for the rear engine support.
- Distributor protectors are allowed. May be part of the engine cradle or protector

#### **Transmission Protectors**

- Transmission protectors are allowed
- Transmission protectors can tie into the engine cradle or protector on the front and on the rear of the transmission it must tie into the cross member. TRANSMISSION PROTECTORS CANNOT TIE TO THE FRAME IN ANY WAY

#### **Transmission Coolers**

- Transmission coolers are allowed
- Transmission coolers must be in the engine compartment if running the cooler on the outside of the car
- Transmission coolers can be located inside of the car. If relocated inside of the car it must be kept in the rear seat area with lines double clamped.
- If using a separate battery for the fan on the transmission cooler it must not be connected to the battery that starts the engine or the charging system of the car
- Battery must be secured and covered

#### **Roof Sign**

- Cars must have a 2ft by 2ft roof sign with the car number on it. Must be bright paint or bright stickers
- Roof signs must be bolted to the roof of the car. Must be anchored to the car to where it will not come off

2024

## Stock FWD/Compact

### Rules

- Must be unibody front wheel drive 4 and 6 cyl. No PT Cruisers.
- Car must be completely stripped, no windshields.
- Hoods must open during tech.
- Must be factory drivetrain, no carb conversions.
- Any tire is allowed. No bead protectors, no valve stem protectors, no solid wheels, must be a stock rim. No foam filled tires.
- You may wire, chain or weld doors, trunk, and hood.( If welding plates can't exceed 3"x3"). 4 points of attachment on each door, trunk or hood. Hood must be bolted from hood to fender, no all thread through hood.
- You may run a driver's door plate. 12" wide and can overlap the driver's door seam 3". (1/4" thick max). Has to be stitch welded every 4". (Can't Weld Solid)
- Gas tanks must be moved to back seat unless factory location is in front of the rear axle.
- Battery must be moved to the passenger floorboard secured and covered.
- All air bags must be disconnected and removed.
- All sunroofs must be clear of glass and shall be covered with sheet metal. Nothing to add strength.
- ~~Bumpers must remain factory.~~ **Rule amended by Galax Fire Motorsports committee. Bumper rule has been changed in the stock V6/ 4 Cylinder class to follow our in-house Figure 8 Rules. This will allow Figure 8 Racers with bumpers already on cars to be able to compete in the Stock V6/ 4 Cylinder Derby. The rule is as follows: - Bumpers – you may swap bumpers from make to make. Bumpers my be welded directly to frame (hardnosed). You may construct a "homemade" bumper out of metal but this bumper cannot stick out past the outside of the tires of the car. No sharp ends on bumpers. No exoskeleton type of cages or bumpers on cars. Bumpers can be no more than 10 inches from the radiator support. Bumpers may not be loaded/filled and must be hollow.**
- ~~Any Compact FWD Bumper may be used. You may weld it at attachment point but you must retain your factory brackets or crush boxes that came on your car. No Shortening.~~
- Suspension must stay stock, no aftermarket anything on suspension, must bounce.
- 4-point roll cage is recommended
- No creasing or pre bending of body
- This class is a gut and go the car must remain stock unless noted.
- Yes you can run headers.
- Simplified wiring harness are Okay.
- No welding on the car anywhere except for what's stated above. This is a fun easy stock build.
- Must cut a 12 inch hole in the hood for fire suppression.
- Computer and fuse boxes must remain under the hood.
- Spray Foam – You may use a little spray foam around the computer, fuse box, etc. but any excessive foam or foam used to hide anything will have to be removed. Use common sense.



**2024**

## **Mini Van/SUV/Mini Truck**

### **Rules**

#### General Class Vehicle Rules:

- Mini Truck: Any small truck under a 1/2 ton with a 4 or 6 cylinder engine using only 2 Wheel Drive (can originally be 4WD as long as 2 wheel assemblies are disabled.) No Full size trucks, stub nose trucks, flat beds, dump beds or el caminos. Must have factory bed for year and type of truck. If you have a vehicle in question be sure to check prior to the event.
- SUV: Any small to mid size SUV using only 2 Wheel Drive (can originally be 4WD as long as 2 wheel assemblies are disabled.) Must be 4 or 6 cylinders. No open Jeeps or Full Size SUV such as Tahoes, Yukons, Suburbans, Expeditions, etc. If you have a vehicle in question be sure to check prior to the event.
- Mini Van: Any small size van with a 4 or 6 cylinder engine using only 2 Wheel Drive (can originally be 4WD as long as 2 wheel assemblies are disabled.) No full size vans, stub nose vans, cube vans, Broncos, suburbans, etc. If you have a vehicle in question be sure to check prior to the event.
- Vehicles must be stripped completely. Vehicles must be clean of all debris. Dash can remain. All glass must be removed.
- You must have a working seatbelt. Lap or shoulder is fine.
- All vehicles must have working brakes.
- Everything must remain stock unless noted.
- Any vehicle in question be sure to ask before you buy or build!!!!

#### BODY/DOORS/BEDS:

- Pick between weld, chain, or wire.
- If welding: Total of 16" of weld per vertical seam. This means you get (4) 4inch welds per vertical seam. Split it up how you please.
- If chain: Max of (4) 3/8inch chain per door.
- If wire: Max of (4) loops in (4) places per door.
- No body creasing.
- Inner fenders may be removed.
- Outer wheel wells must be in place. Minimum clearancing is permitted but do not get carried away.
- Trucks may weld bed to cab, total of 16" weld per vertical seam.
- Truck beds must remain stock, no folding over.
- You may run an outside driver's door plate. 12" wide and can overlap drivers door seam 3". (1/4" thick max). Has to be stich welded every 4". (Can't Weld Solid)

#### DRIVERS COMPARTMENT:

- (4) point cage, roll over bar, or dash bar is highly recommended. None to add strength but for safety reasons only. None of the bars may attach to frame/unibody, or extend into the backseat area. Down bars can only attach to floor sheet metal. Must be completely vertical.
- The gas supply must be removed from the stock area.
- Fuel Cell: For minivans and SUVs the fuel tank must be located behind the front seats and securely fastened and well covered. For small trucks the tank must be mounted in the center of the bed directly behind the cab, securely fastened and well covered. Fuel cells must be firmly secured. Electric fuel pumps are fine but an on/off switch must be in reach of the driver seat and clearly labeled "ON"/"OFF".  
\*\*If you are running a MiniVan or SUV you may run the fuel tank in Stock Location if it is in front of rear axle and inside frame rails. Mini Trucks all must move the tank to the bed of the truck still.\*\*
- Trucks: A gas tank protector is highly recommended. Protector may attach to frame but may not exceed further than 24" from the front of the bed.

- One car battery only! Must be firmly secured to the passenger side floor board.
- All air bags must be disconnected and removed.
- All sunroofs must be clear of glass and shall be covered with sheet metal. Nothing to add strength.

#### FRAME:

- Must be stock as if it came off the showroom floor. Only exception is bumper mounting and notching the rear. Notch must be behind the rear axle.
- No shortening frames.
- All body to frame bolts must remain stock.
- You may replace the back two body bolts with 1/2" all thread. 3" x 3" washer max on top. (1 per side).
- Trailers hitches must be removed.
- PRE RUNS ONLY: 4 fix it plates allowed, max size 3" x 3" x 1/8" inch thick per plate. No splitting up or dividing to double plate. Frame damage must be visible.

#### BUMPERS:

- Any factory bumper off any car may be used and it may be loaded but remain stock in appearance. Nothing can protrude out.
- Instead of factory bumper you may run 4" x 4" x 1/4" wall square tubing for bumper. It must be a straight piece, no contours or adding metal. No fabricated bumpers, straight piece of square tubing is all you get. Length of homemade bumper may not go beyond outside of fenders.
- Any Smith Metal Works (excluding pro class bumper) or DEC are allowed
- All factory plastic skins must be removed.
- If bolting: You may bolt bumper to the frame but nothing excessive. Bumper mounting shall not add strength to the frame.
- If welding: You may weld bumper to the frame but nothing excessive. Bumper mounting shall not add strength to the frame. No metal can be added to do so. You are allowed 2 – (2" x 2" x 1/4") angle 3" long to aid in mounting the bumper. 1 per side no square tubing, round tubing, etc. ANGLE ONLY!!!
- If chaining: Bumper may be chained to the frame by welding/bolting, using 1/4inch chain, 12inches long max.
- We do not want bumpers falling off. You may change shocks but nothing crazy. Keep them stock as possible. EXP.(NO FULL SIZE SHOCKS WELDED TO FRAME).

#### ENGINE/DRIVETRAIN:

- Any make or model providing the same cylinder size is used. 4 or 6 cylinder only.
- Motor Mounts: Engine may be secured to the frame by any method as long as it does not strengthen the car in any way! ABSOLUTELY ZERO PROTECTORS!

#### Tailgate/Hatches/Hoods:

- Tailgate/Hatches/Hoods may be secured by either chaining, bolted, or wire.
- If chaining: Max of (4) spots. 3/8inch diameter chain max.
- If welding: Max of (4) spots. 3" x 3" plates max.
- If wired: Max of (4) loops in (4) spots.
- If bolted: Max of (4) spots with 2" angle to angle with 3/8" bolts.
- 12 inch hole is required in the hood for fire suppression.

#### SUSPENSION:

- Suspension must be stock and have travel.

- Bumper height must remain as factory as possible. No lift kits, spring spacers, etc. allowed.
- Shocks must be stock.
- Coil springs may be wired or tack welded in place. Leaf Springs must remain stock.
- No Body or Suspension lifts.
- You may reinforce tie rods but utilize factory ends.

#### TIRES:

- Any tire 13 inches or larger is okay. Valve stem protectors are ok.
- No foam filled tires.

#### REARENDS:

- Rear Ends must remain stock for the make and model of vehicle.
- You may weld rear end gears.

#### RADIATOR/COOLING:

- Radiators must be clean of antifreeze. Water only is allowed.
- Radiator must remain in stock location with no reinforcements.
- Heater system may be bypassed or removed.
- Transmission cooler must remain under the hood.

## 2024

### Stock V8

#### Rules

**Stock V8 rules will be very similar to rules for Stock V6/4 cylinder and mini van/truck classes. This class is designed to be a gut and go class.**

- Car must be completely stripped, no windshields.
- Hoods must open during tech.
- Must be factory drivetrain, no carb conversions.
- Any tire is allowed. No bead protectors, no valve stem protectors, no solid wheels, must be a stock rim. No foam filled tires.
- You may wire, chain or weld doors, trunk, and hood.( If welding plates can't exceed 3"x3"). 4 points of attachment on each door, trunk or hood. Hood must be bolted from hood to fender, no all thread through hood.
- You may run a driver's door plate. 12" wide and can overlap the driver's door seam 3". (1/4" thick max). Has to be stitch welded every 4". (Can't Weld Solid)
- Gas tanks must be moved to back seat unless factory location is in front of the rear axle.
- Battery must be moved to the passenger floorboard secured and covered.
- All air bags must be disconnected and removed.
- All sunroofs must be clear of glass and shall be covered with sheet metal. Nothing to add strength.
- Suspension must stay stock, no aftermarket anything on suspension, must bounce.
- 4-point roll cage is recommended
- No creasing or pre bending of body
- This class is a gut and go the car must remain stock unless noted.
- Yes you can run headers.

- Simplified wiring harness are Okay.
- No welding on the car anywhere except for what's stated above. This is a fun easy stock build.
- Must cut a 12 inch hole in the hood for fire suppression.
- Computer and fuse boxes must remain under the hood.
- Spray Foam – You may use a little spray foam around the computer, fuse box, etc. but any excessive foam or foam used to hide anything will have to be removed. Use common sense.

#### BUMPERS:

- Instead of factory bumper you may run 4" x 4" x 1/4" wall square tubing for bumper. It must be a straight piece, no contours or adding metal. No fabricated bumpers, straight piece of square tubing is all you get. Length of homemade bumper may not go beyond outside of fenders.
- All factory plastic skins must be removed.
- If bolting: You may bolt bumper to the frame but nothing excessive. Bumper mounting shall not add strength to the frame.
- If welding: You may weld bumper to the frame but nothing excessive. Bumper mounting shall not add strength to the frame. No metal can be added to do so. You are allowed 2 – (2" x 2" x 1/4") angle 3" long to aid in mounting the bumper. 1 per side no square tubing, round tubing, etc. ANGLE ONLY!!!
- If chaining: Bumper may be chained to the frame by welding/bolting, using 1/4inch chain, 12inches long max.
- We do not want bumpers falling off. You may change shocks but nothing crazy. Keep them stock as possible. EXP.(NO FULL SIZE SHOCKS WELDED TO FRAME).

#### RADIATOR/COOLING:

- Radiators must be clean of antifreeze. Water only is allowed.
- Radiator must remain in stock location with no reinforcements.
- Heater system may be bypassed or removed.
- Transmission cooler must remain under the hood.