



2023

# Demo Derby Series

**Buck Motorsports Park**

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FOR TECH / BUILD QUESTIONS:

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# 2023 Demo Derby Schedule

<b>May 27<sup>th</sup> 2023 7pm</b> (Rain date May 28 <sup>th</sup> 2023- 7pm) V-8 Trucks, Small Car, Van, Super Stock, Pro-Stock, Youth Small Car	<b>July 1<sup>st</sup> 2023 7pm</b> (Rain date July 2nd 2023- 7pm) Van, Small Car, Mid Size, Super Stock, Pro-Stock Youth Full Size & Chain N Go
<b>August 12<sup>th</sup> 2023 7pm</b> (Rain date August 13 <sup>th</sup> 4pm) Full Size School BUS Van, Small Car, Super Stock, Pro-Stock Youth Small Car, Chain N Go +Power Wheels	<b>August 18&amp;19 2023 7pm</b> Gaithersburg, MD Montgomery County Fairgrounds Small Car, Super Stock, Pro-Stock & Chain N Go
<b>September 2<sup>nd</sup> 2023 7pm</b> (Rain date Sept 3rd 2023 7pm) Mid Size, Small Car, Pro-Stock, Ladies Full Size, Super Stock, Youth Small Car & Chain N Go	<b>October 28th 2023 7pm</b> (Rain date Oct 29 <sup>th</sup> 2023- 4pm) Van, Small Car, Mid Size, Super Stock, Pro-Stock Youth Small Car & Chain N Go
	<b>December 31<sup>st</sup> 2023 7pm</b> (Rain date Jan 1st 2024- 4pm) V8 Trucks, Small Car, Van, Super Stock, Pro-Stock, Youth Small Car & Chain N Go

\*\*EVERY PERSON ENTERING MUST PURCHASE A TICKET & PIT PASS

\*\*MAD DOG AWARDS (TROPHY & CASH) WILL BE GIVEN OUT

**Vehicle Entry fee \$20.00**

\*Fee is waived for enrollment competitor is still enrolled in school\*

SMALL CAR MINI VAN / SUV MID SIZE SUPER STOCK	1 <sup>st</sup> \$1200.00 & Trophy Check 2 <sup>nd</sup> \$400.00 & Trophy Check 3 <sup>rd</sup> \$200.00 & Trophy Check
PRO-STOCK (WELD) FULL SIZE TRUCK	1 <sup>st</sup> \$1500.00 & Trophy Check 2 <sup>nd</sup> \$600.00 & Trophy Check 3 <sup>rd</sup> \$300.00 & Trophy Check
LADIES FULL SIZE	1 <sup>st</sup> \$800.00 & Trophy Check 2 <sup>nd</sup> \$400.00 & Trophy Check 3 <sup>rd</sup> \$200.00 & Trophy Check
STOCK – CHAIN N’ GO YOUTH	1 <sup>st</sup> \$800.00 & Trophy Check 2 <sup>nd</sup> \$400.00 & Trophy Check 3 <sup>rd</sup> \$200.00 & Trophy Check
SCHOOL BUS (Full Size)	1 <sup>st</sup> \$3500.00v & Trophy Check 2 <sup>nd</sup> \$1500.00 & Trophy Check 3 <sup>rd</sup> \$1000.00 & Trophy Check 4 <sup>th</sup> \$500.00 & Trophy Check

## GENERAL SAFETY & COMPETITION RULES

- 1) Driver must have a valid state identification card. Drivers 16 and 17 years old must have a minor release form signed by a parent or guardian. All drivers and pit crew must sign a release and entry form, understanding that they are competing at their own risk and that they will not bring suit against any officials, promoter, employees, sponsors and /or property owner. By signing the release and entry forms you agree to all rules set forth and warrant that your vehicle meets all the requirements for your class.
- 2) All vehicles must pass tech inspection before competing. If presiding officials determine a vehicle is unsafe, officials have the right to not allow vehicle to compete. Tech inspection area closes one hour before event is scheduled to start.
- 3) Only one registration per vehicle will be allowed. No vehicle changes will be permitted once registration has closed. Officials reserve the right to approve or reject all entry applications. Points are awarded to driver.
- 4) **Tech & Registration will close 90 minutes** before event is scheduled to start.
- 5) All drivers must attend driver's meeting approximately 1 hour before event starts.
- 6) A vehicle cannot be registered after driver's meeting unless approved by track official.
- 7) Competition vehicles must be always operated in a safe manner within the confines of the track, pit area and staging areas. Track officials have the right to stop and disqualify any vehicles not being operated in a safe manner. Pit area speed 5 MPH.
- 8) Any time the competition vehicle's engine is running, (pits, staging area, track, etc.), a driver must be in the drivers' seat. No exceptions, automatic disqualification.
- 9) No Riders!
- 10) Only track officials allowed at track side during competition. No riders in vehicle during competition.
- 11) Drivers must stay inside the car and keep helmet on until heat is completed, unless instructed otherwise by track officials.
- 12) No deliberate hitting the driver's door. Doing so will result in disqualification. If you use your driver's door to draw a door hit, we will not enforce this rule.
- 13) You may drive forward or backward but must make contact or be disqualified. You must make a hit within 60 seconds or you will be disqualified. Head on hits are permitted in all classes.
- 14) 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.
- 15) Sandbagging can result in disqualification.
- 16) Any vehicle throwing shredded tire debris toward grandstands will be stopped and disqualified.
- 17) Demo Derby is not a team sport. Team driving will not be tolerated by officials and can result in disqualification.
- 18) Heat winners must run same car in Feature. Track officials reserve the right to fill feature events with additional vehicles if finalist cannot return.
- 19) Driver must wait for green flag from starting flagman before starting run. Leaving the starting line before the green flag will be an automatic disqualification. No exceptions!
- 20) Vehicle must stop immediately upon signal of red flag from flagman/ lights and horn.

- 21) If any vehicle and/or driver is disqualified for any reason, no refund of entry fee or pit fee.
- 22) A contestant may be disqualified for either emotional or physical reasons by Competition Director or Track Officials. Example: recklessness; drugs or drinking alcoholic beverages. Any driver or any of his or her pit crew consuming any intoxicating agent, and/ or drugs prior to or during the event will be disqualified from the event- Drivers will be held responsible for the actions of their crew!
- 23) No one (at any time) will be allowed to abuse any track official verbally or physically. Automatic disqualification! We have the right to fully suspend any competitor.
- 24) If less than 6 vehicles enter a class, the track reserves the right to pro-rate the purse structure.
- 25) Track Officials will have the option to check competitors for rule violations at any time during the events.
- 26) The Promoter or Competition Director reserves the right to change any safety rule or rules if they feel it is necessary.
- 27) Tech Directors will have final decisions on all vehicle classifications.
- 28) Contest will be governed by track officials and competition director with all decisions final! Judgement calls are not subject to appeal and shall be final!
- 29) Protest procedures – any participant wishing to protest another participant will be allowed to do so under the following guidelines: Drivers must be registered for the event. A formal protest must be file with the Competition Director, form must be complete, and must be submitted prior to the start of competition. A \$200 cash protest fee will be required. The vehicle protested will be accompanied and evaluated by Buck Motorsports Officials and the driver of the protested vehicle. If vehicle is found to be non-compliant with Buck Motorsports Rules, the driver will need make the vehicle compliant or be eliminated from competition that day. If vehicle is non-compliant the funds will be refunded to the driver who initiated the protest. If the vehicle is found to be compliant, the funds will be split evenly amongst the protested driver and the 1<sup>st</sup> place purse amount.
- 30) Most importantly - BE SAFE, HAVE FUN!

The rules and/or 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 condition of all events, and, by participating in these events, all participants are deemed to have complied with these rules.

NO EXPRESSED OR WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH 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 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 EXPRESSED OR WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OR SPECIFICATIONS. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final!

## **GENERAL BUILD RULES – APPLIES TO ALL CLASSES**

1. Vehicle must be teched at track and in the same physical condition as at the time it was inspected for current highway use, if required. Vehicle must be teched with tires on that will be used for competition.
2. 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.
3. All glass including head and taillights 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.
4. All chrome molding, rear seat, headliner, sun visors and rear-view mirrors must be removed.
5. All outside plastic and grill must be removed including factory nosepieces.
6. No bumper or frame mounted hitches allowed.
7. No steel fan blades allowed. electric operated fans are allowed. **NO ENGINE DRIVEN FANS!**
8. All air conditioning systems must be drained, and rubber hoses removed prior to arrival at track.
9. All wheel balancing weights must be removed, including inside of wheels.
10. All vehicles must have brakes in good working order.
11. No obscene signs or lettering allowed on vehicle.
12. **Stock gas tank must be removed from car.** Maximum of 5 gallons of any 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.
13. You may run an electric fuel pump, but it must have a kill switch that is clearly marked. Please use fittings or good hose clamps and make sure they are tight.
14. Any fuel may be used.
15. 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.
16. All vehicles must be always operated in a safe manner. Track officials have the right to stop or disqualify any driver or vehicle
17. Steering may be altered from the steering box to the steering wheel.
18. All airbags must be removed. Drain air conditioners and radiators. Rubber hoses must be cut or removed prior to arrival at the track. All trailer/towing hitches must be removed.
19. Gas Tank Protector - Max 24" wide 30" must be 2" from any sheet metal Additionally, gas tank mounts may not be used as a technical advantage on a car
20. No V Tread tires. No dirt bike tires. Skid loader type are acceptable valve stem protectors OK
21. **Wheels - NO rim Guard - NO bead lock - NO full centers (unless specified in class rules) – NO lip Protection – Valve Stem Protectors OK**

## SUV / MINI VANS – MID SIZE -SMALL CARS

1. ALL GENERAL RULES FROM ABOVE APPLY
2. Mid Size (over 107.1" wheel base)
3. SMALL CARS (107" and under wheel base)
4. Any year foreign or domestic mass-produced SUV or minivan 4 or 6 cylinder only.
5. Cars are to be stock unless specifically mentioned in these rules. No altering, swapping, welding or manipulating parts unless specifically mentioned. Patching and rust repair will be allowed only if cleared by head official.
6. 4WD and All-Wheel Drive are prohibited from competing. Any vehicle that has 4WD or AWD capabilities MUST have either of the drive end's mechanically disabled.
7. No re-stubbing of cars will be allowed. OEM frames, frames parts, and crossmembers ONLY, unless stated otherwise. If it's not in these rules it doesn't mean you can do it call with questions

### CAGES

1. Bars must be sheet metal to sheet metal. Bars must be single bars, not stacked or doubled. They must be at least 5" from the center of the fire wall and floor at any point including transmission and driveshaft tunnels. The back bar may not be any further back than the kick panels. Front bar may not contour the body. It must run straight across. All bars MUST be inside the driver's compartment except roof bar. All cage bars must be a minimum of 2" x 2" x 1/8" and be no bigger than 3" X 3" 1/4" except side bars. Side bars may be C-channel up to 6". Side bars length no longer the center of the back door. If side bars are used, you MUST have both front and rear cross bars. If side bars are not used, mounting plates not exceeding 1/4" X 6" X 6" may be used on the ends of the seat bar and dash bar. No down bars. The halo must come off your rear seat bar. Max. 3" X 3" bars or 6" c-channel. IF YOU CAN NOT WELD THEN BOLT!!! The cage and roll over are for drivers' safety ONLY may not strengthen the car in any way your battery box or gas tank may attach to sheet metal only. 1 gusset per corner allowed, do not get carried away of you will cut it. No floating plates, 9 wire, chain, etc. can be used between the cage and frame or body except where stated.
2. NO More than Two (2) windshield bar or chain may be attached from the roof (no more than 3" up the roof) to the cowl area (no more than 3" below) on the front windshield area only to protect the driver. This may not be used as a strengthener or to keep a car from bending.

### BODY & FRAME

1. ALL BODY MOUNTS MUST REMAIN IN STOCK LOCATIONS. If OEM body mounts are used, the portion of the OEM mount between the frame and body cannot be altered including the metal cone inside of rubber mount. If you chose to replace OEM body mounts, the OEM mounts may only be substituted with an actual rubber hockey puck (no homemade plastic or metal spacers allowed). They must be positioned in the original location and with the same intent as the factory installs them, but bolts may travel through the top of floor. Body mount bolts may be replaced with the factory size bolt for that vehicle. A washer, no larger than 1/4" x 4" x 4", may be placed on the top (inside car where bolt sticks through floor) and bottom of body mount bolts inside of frame. No welding washers to car body or frame. Do not add or relocate and body mounts and/or bolts. K-member and subframe mounts will be considered body mounts. Maximum size of k-member or subframe bolts permitted is the OEM size for that vehicle. Compact cars with subframes and full size subframe and pinch-frame cars may replace OEM mounts with hockey pucks. There must be a 1" space in between the frame and the body, DO NOT MODIFY THE HOCKEY PUCKS IN ANY WAY.

2. Notching and pre-bending will be allowed. Do not weld notches back together. Do not “enhance” or crease body lines.
3. A 3/8” thick plate may be used to skin the outside of the driver’s door. Skin cannot extend further forward or backwards of the driver door seams.
4. Wedging and lowering of trunk area will not be allowed. Trunk lids may be cut or bent to tuck. Quarter panels must remain vertical and factory height. If you tuck the trunk, it must go straight up and down to the trunk pan.
5. Do not paint or undercoat frames inside or out. Do not grind or buff frames. If you weld on the frame other than what is specified you will be loaded.
6. (2) 4x4x1/4” fix it plates are permitted
7. RIDE HEIGHT MEASURED FROM BOTTOM OF BUMPERS. FRONT MAX OF 22” REAR MAY NOT BE LOWER THAN 14” SUSPENSION

### **HOODS, TRUNKS & DOORS**

1. Hood must have at least a 10” X 10” hole on each side of the air cleaner for fire personnel. Hood/Trunk cutout bolts may be used. Max. 6 per hole, no larger than 3/8” bolts and 1 1/4” inch washers. Hood must be secured in four spots with 3/8” chain or four spots with three strands of #9 wire or four pieces of no more than 2” angle iron no longer than 2” in length with one 3/8” bolt may be used. Any place a bolt passes through a tie-down is considered one spot. You can use 3/8 chain or 9 wire (3 strands) to go around front bumper to the hood to keep bumpers from falling off this will not count as a tie down location TAKE ADVANTAGE OF this!!
2. Doors may be secured in four places per vertical seam when using the following max. 3/8” chains, #9 wire (three strands), or three locations when welding 1/4” X 3” X 3” patches per vertical seam. Location of chain, #9 wire or plates do not need to remain on vertical seams but must adhere to total count (i.e. - a sedan with 3 vertical seams will be allowed 12 total spots to be used at driver’s discretion). Trunk lids must be secured in 4 locations using 9 wire (3 strands) or 3/8 chain or welding 1/4” plate 3”by 3”. you may also use 3/8 chain or 9 wire (3 strands) to go around the rear bumper to the trunk lid this will not count as a location but is recommended to keep bumpers from falling off.
3. All hoods MUST open on stock hinges or removed completely for inspection regardless of cutout size. You cannot weld the hood directly to the car.
4. All rear inner decking panels must be removed from station wagons. All body seams must be visible for inspection whether it is a used car that is bent or a fresh car that is pre-bent. All trunks must have an 8” X 8” hole must be cut for inspection.

### **BUMPERS**

1. Any year OEM car bumper is permitted. You may cut or bend bumper ends for clearance. SMW light bumpers will be permitted. No other Homemade bumpers allowed.
2. No loaded bumpers.
3. Bumpers may be seam welded.
4. You may add two plates one on each frame rail they must be between the front of the frame and bumper - max size of 6”x 6” x 1/4” to help keep the bumper on. These plates MUST attach to the back skin of the bumper. You cannot weld your frame to your sub-frame or to these extra plates.
5. You may hardnose bumpers on no extra metal can be used other than what was specified.



6. Bumper shocks can be welded to the OUTSIDE of the frame only 6" back starting at the front of the frame. Absolutely nothing inside of any frames. You may use 2"by 2" 1/4 tubing 6" long in place of a factory shock. Anything welded after 6" will be cut! No welding bumpers to bodies.

### **ENGINES, TRANSMISSIONS & DRIVE SHAFTS**

1. Engine & transmission swapping between manufactures is allowed. Do not strengthen frames or cross-members with mounts. Motor mounts may be bolted or welded to cross member ONLY. One engine chain per side may be used max length 18" or closed loops no bigger than 3/8 chain, bolted to existing factory hole, or wrapped around crossmember only. Motor chains MUST go to the engine crossmember, straight DOWN, and only ONE LINK can be welded to crossmember. Factory style transmission cross members must be used.
2. **Motor Mounts – OEM Motor Mounts can be replaced with Solid Mounts – The Mounts CANNOT strengthen the frame!**
3. THE TRANS MOUNT MUST REMAIN OEM or OEM replacement. NO SOLID Transmission MOUNTS.
4. No engine cradles.
5. No slider drive shafts.
6. Aftermarket shifters, gas pedals, ignitions switches, transmission coolers, electric fans, and throttle linkages are allowed. Transmission braces are NOT allowed.
7. Water only in cooling system. Please drain antifreeze prior to arrival at the track.

Any cooling system must be wired or bolted no welding. Water boxes may be used. Water box size will be limited to 28" X 31" and must be BOLTED in under the hood with no more than four 3/8" bolts using 1 1/4" inch washers.

8. Exhaust may exit under the car or straight up through the hood. Some type of air cleaner must be used. No open carbs will be allowed.
9. Two batteries per car are allowed. Batteries must be mounted securely to the passenger side floorboard and covered with a rubber mat. We REQUIRE metal frames bolted or welded to the floor or chains. Do not use zip screws, ratchet straps or rubber straps. Do not strengthen car with the battery box. We REQUIRE metal frames bolted or welded to the floor or chains. Do not use zip screws, rubber straps or ratchet straps thru the floor. Do not strengthen car with the battery box.
10. Distributor protectors are NOT allowed. All large holes in firewall must be covered with tin, heavy rubber or fire-resistant material.

### **SUSPENSION & REARS**

1. Any non-braced rear end may be used with a max count of 6 lugs.
2. Rear shocks to remain stock. You can chain the rear with 1 3/8 chain per side around the frame to rear no welding chain must be bolted.
3. No rear end brace allowed.
4. Suspension may be raised by using torsion adjustment.
5. TIE ROD ENDS, BALL JOINTS MUST REMAIN OEM. No welding of any suspension components to frame or No plating or added metal will be allowed to strengthen springs, struts, etc. NO TRUCK PARTS.
6. Factory leafed cars must have factory spring packs with correct step-downs. No more than two replacement clamps will be allowed on each spring pack. They may not exceed 1/4" X 2" X 5". No suspension conversions.
7. YOU CANNOT WELD ANYTHING TO THE AXLE TUBES.



# STREET STOCK

## TRUE CHAIN N' GO

Class is designed for entry level builds. Meant to be AFFORDABLE – If it didn't come like that from Factory, and is not specifically stated that you can – THEN DON'T - BECAUSE YOU CANT!

1. ALL GENERAL RULES FROM ABOVE APPLY
2. Did you Read the Name of the class? Chain it and Go.
3. Any year V-6 or V-8 Car
4. No Frame Swaps or Modifications (this means NO WELDING) – NONE
5. Bumper Can be welded on.
6. Motor Swaps allowed if Motor is STOCK – in STOCK location. V-6 in V-6 vehicles and V-8 in V-8 vehicles. NO V-8 in V-6 vehicles!
7. Vehicle must remain STOCK – NO Motor Cradles
8. SEAMS – Weld OR CHAIN/WIRE – NOT BOTH
9. Maximum (3) 4" long welds on any door – Can full weld Drivers door
10. 2 Chains (5/16" max) OR 3Wraps of #9 wire on Vertical Seams – one on Horizontal Seams
11. 2 Points of up to 3/4" all thread allowed on the hood and trunk.
12. Absolutely No welding INSIDE seams of doors.
13. Aftermarket ignition switch/harness OK
14. Driver Door Protection Recommended
15. Modifying FACTORY tie rod OK
16. Absolutely No Aftermarket parts on Steering.

# SUPER STOCK

Class is designed for most larger cars except for the following: Ambulances, Hearses, Imperials, Sub frame Imperials, Limos ect. (Please call for vehicle qualification).

## GENERAL

1. Please maintain the **STOCK STYLE** of build stated in the rules.
2. ALL GENERAL RULES FROM ABOVE APPLY.

## DRIVETRAIN

1. A Lower engine cradle and front plate only no distributor protector, don't go crazy welding lower cradle in or you will cut. Only weld what is necessary.
2. Transmission cannot have steel bell or shaft.
3. OEM crossmembers only.
4. NO SLIDER DRIVESHAFTS.
5. Any OEM rear, must be 5 lug only NO BRACING, pinion brake permitted. no axel savers,
6. 1998 and newer must run factory watts link no exceptions.
7. Motor swaps and aftermarket bolt ins such as shifters and pedals allowed.

## WHEELS AND TIRES

1. Tires may be doubled no v tread or bike tread. Skid steer type ok, no liquid filled tires
2. Rims may have weld in centers but no full centers 3.No bead locks, lip protectors or rim guards 4. Valve stem protectors permitted.

## BUMPERS

1. Any year OEM car bumper is permitted. You may cut or bend bumper ends for clearance. SMW bumpers (light) will be permitted. No other Homemade bumpers allowed.
2. No loaded bumpers
3. **Bumpers can be Full Seam Welded.**
4. You may add two plates one on each frame rail they must be between the front of the frame and bumper - max size of 6"x 6" x 1/4" to help keep the bumper on. These plates MUST attach to the back skin of the bumper. You cannot weld your frame to your sub-frame or to these extra plates.
5. You may hardnose bumpers on no extra metal can be used other than what was specified
6. Bumper shocks can be welded to the OUTSIDE of the frame only 6" back starting at the front of the frame. Absolutely nothing inside of any frames. You may use 2"by 2" 1/4 tubing 6" long in place of a factory shock. Anything welded after 6" will be cut!!!
7. No welding bumpers to bodies.
8. Notching and pre-bending will be allowed. Do not weld notches back together.

9. RIDE HEIGHT MEASURED FROM BOTTOM OF BUMPERS. FRONT MAX OF 22" REAR MAY NOT BE LOWER THAN 14"

### **SUSPENSION**

1. All suspension to remain stock.
2. OEM, COILS, SHOCKS only.
3. No leaf conversions.
4. Rear shocks and coil springs must remain stock and in stock location.
5. HUMPS MAY BE CHAINED AROUND REAR IN ONE SPOT PER SIDE. No welding chain.
6. 2003 newer Vic's must run either factory aluminum components (OR) **BOLTED** in Smiths Metal work cradle or equivalent.

### **STEERING**

1. All steering components are to remain stock.
2. Aftermarket steering column is permitted.
3. NO REINFORCEMENTS

### **FRAME**

1. (2) 4"x4" 1/4" Thick "Fix it Plates" are allowed.
2. no pinning, plating of frames. STOCK only.
3. All body mounts must remain stock including core support.
4. Frame can be shortened to the factory core support location only.
5. NO TILTING OR COLD BENDING

### **BODY**

1. Driver's door may be welded solid.
2. All other doors must use 3/8 chain / 9 wire (3 wraps per location) or 3x3x1/4 steel at 3 connections per vertical seams.
3. Trunk may be tucked but cannot connect to trunk floor in any fashion. TRUNK CANNOT BE DISHED
4. Hood must have a minimum of 2 10" holes one per side
5. Trunk must have 12" inspection hole.
6. Hood and trunk may be fastened in 6 spots using 9 wire (3 wraps), 3/8 chain or 3x3x1/4: plate(welded to body only) . Up To 1/2" All Thread allowed. Must not be fastened to frame in any way. You may also fasten hood and trunk in 2 extra locations to your bumpers using 3/8 chain or 9 wire (3) wraps
7. NO SHORTENING OF REAR OF BODY IN ANY FASHION, NO WRAPPING FENDERS, they must remain upright and parallel.
8. Creasing The body is not permitted.
9. ALL BODY MOUNTS MUST REMAIN IN STOCK LOCATIONS. If OEM body mounts are used, the portion of the OEM mount between the frame and body cannot be altered including the metal cone inside of rubber

mount. If you chose to replace OEM body mounts, the OEM mounts may only be substituted with an actual rubber hockey puck (no homemade plastic or metal spacers allowed). They must be positioned in the original location and with the same intent as the factory installs them, but bolts may travel through the top of floor. Body mount bolts may be replaced with the factory size bolt for that vehicle. A washer, no larger than 1/4" x 4" x 4", may be placed on the top (inside car where bolt sticks through floor) and bottom of body mount bolts inside of frame. No welding washers to car body or frame. Do not add or relocate and body mounts and/or bolts. K-member and subframe mounts will be considered body mounts. Maximum size of k-member or subframe bolts permitted is the OEM size for that vehicle. Compact cars with subframes and full size subframe and pinch-frame cars may replace OEM mounts with hockey pucks. There must be a 1" space in between the frame and the body, DO NOT MODIFY THE HOCKEY PUCKS IN ANY WAY.

### CAGE

1. 4-point cage is recommended
2. MAXIMUM THICKNESS OF CAGE MATERIAL 4"X 4" OR 2"X 6' side bar length is center of the rear kick panel absolutely nothing fastened to the cage
3. GAS TANK PROTECTOR BARS NO Bigger THAN 3"X 3" TUBING. MAX width of gas tank protector 24" and must stay 2" from packing tray. In wagons length is 32"
4. No down bars
5. Dash bar must be 5" from firewall.
6. Halo recommended and bolted to roof.
7. No swapping frames. They must be correct for the model year.
8. NO REAR window BAR
9. Drivers front door must have Padding between themselves and door.
10. If it does not say you can do it. It is NOT PERMITTED. If you have questions or concerns, please call first.

FOR TECH / BUILD QUESTIONS:

Matt Balmer: 717.821.8170

Scott Smith: 717.222.4410

# PRO-STOCK (WELD CLASS)

Class is designed for most larger cars except for the following: Ambulances, Hearses, Imperials, Sub frame Imperials, Limos ect. (Please call for vehicle qualification).

## GENERAL

**TO BE CLEAR, NO KICKERS OF ANY FASHION WILL BE PERMITTED, PERIOD!**

1. No sedagons or wedging of cars
2. Any motor and transmission. Transmission cooler permitted in cockpit tightly secured.
3. FULL CRADLES PERMITTED. SOLID MOTOR MOUNTS PERMITTED
4. Transmission crossmember may be a max of 2"x 2" 1/4" tubing connected to frame by 1/4" 4"x 6" angle, with a max length of 6 inches. You MAY NOT put the crossmember through the frame in any fashion. TRANSMISSION MAY HAVE STEEL BELL, STEEL SHAFT AND MAY HAVE TRANSMISSION BRACE WITH SOLID TRANNY MOUNT CONNECTED TO CROSSMEMBER ONLY.
5. Slider driveshaft permitted.
6. ANY REAR, BRACING ALLOWED. NO BRACING MAY ATTACH TO BODY, FRAME OF PACKAGE TRAY AND CANNOT STRENGTHEN CAR IN ANY WAY.
7. Bracing of rear must occur between humps measured from innermost point of frame aka width of package tray. NO BUMP STOPS.

## WHEELS AND TIRES

1. Skid loader type ok may be doubled no v tread or bike tread no liquid filled
2. Full wheel centers permitted; valve stem protectors allowed may not extend out past the wheel further than 1". lip protectors, bead locks ARE PERMITTED.
3. Wheels may be spaced 1/2" with additional center.
4. No external rubber or other material on the outside to protect the tire.

## BUMPERS

1. Both front and back bumpers may be any OEM bumper. Bumpers may be loaded internally meaning within the factory skins.
2. No sharp edges, End caps permitted.
3. May be seam welded.
4. **HOMEMADE BUMPERS ARE PERMITTED BUT MUST MEET THE FOLLOWING SPECIFICATIONS. MUST NOT EXCEED 8"x8". IF IT HAS A POINT THE POINT MAY NOT EXTEND MORE THAN 4" FROM FLAT FRONT OF BUMPER. Flat back of bumper to furthestmost point of bumper can be a MAX of 12". Meaning 8" Thick Bumper – 4" point. If the Bumper is 6"x6" or less you still MAY NOT EXCEED the 4" point from Front Flat of bumper, NO EXCEPTIONS.**

TAPER OVER 32". Bumpers cannot be sleeved around frame OR built around frame. Bumper must be built from flush mounting SURFACE forward, not backward around frame.

5. Bumper mounting: you may use a 2" x 2" x 12" 3/8" SQUARE TUBING OR A 4"x12" 3/8" thick plate on outside of frame. (1 per frame rail) Measurement for plating starts at the end of the frame. Plating can be on outside of frame top, bottom, left, or right. **NO LOADING OF THE CONTOUR**
6. Measurement of tubing from back of bumper with straight edge.
7. Bumpers may not be lower than 14"s or higher than 22". Measurement taken from bottom of bumper.

### **SUSPENSION**

1. 2003 and newer cars may replace the factory aluminum cradle with a weld in cradle or Smw bolt in.
2. Imp sub cradles, 98-02 cut outs and gm cuts out must adhere to the following when welding in. A single pass of weld will be used. A 1/2 rod 12" long rod can be used as filler. 1 per frame rail. Absolutely no extra metal then what is listed. The rod must be painted red!!!
3. Tie rods may be reinforced.
4. If choosing to swap an 80s style body onto a 03 and newer frame, the car will be inspected as a 03 and newer and above rules will apply.
5. Cars do not have to bounce
6. Rear suspension may be 1" all thread.
7. Coils may be welded to the rear and banded to the body in one spot.
8. LEAF SPRING CONVERSIONS max 7 leaf's no truck springs no hump plates on leaf conversions or factory leaf cars
9. NO AFTERMARKET A-ARMS
10. Front suspension may be solid. Upper A arm may be contoured to frame and may be welded either with a single pass 4" bead 1 per side or use a 4" x 4" max FLAT PLATE (THIS PLATE CAN BE FOLDED AS ANGLE. A-ARM to frame on each side. (2 per A arm) THESE PLATES, AT SOME POINT MUST BE WELDED TO A-ARM OR IT WILL BE LOST
11. A-Arms may be swapped OEM to OEM. Ball joints MAY BE AFTERMARKET AND may be welded in. Spindles OEM to OEM, NO aftermarket spindles
12. Front shock can be 1" all thread. No Ski springs. Nothing at all is permitted on top of the coil springs. Coil pockets may not be reinforced in any fashion.
13. Sway bar may be bolted to the lower arm. SWAY BAR MUST USE FACTORY MOUNTS AND CANNOT BE WELDED.
14. Humps may be chained around rear one spot per side. IF DOING SO YOU MAY EITHER WRAP THE CHAIN AROUND HUMPS AND REAR ONCE ON EACH SIDE AND BOLT CHAIN TOGETHER OR YOU MAY WELD (1) ONE FULL CHAIN LINK TO FRAME TO SECURE CHAIN. THIS MEANS ONE LINK PER CHAIN
15. Watts link kits are permitted. If using a watts link aftermarket or homemade it must bolt to the package tray utilizing only 7/16" maximum bolts. You MAY NOT, bolt through the package tray to the body. NO WELDING TO PACKAGE TRAY. Watts link uppers must be NO BIGGER THE 8" X 8" MAX. Lowers may be a max of 2" x 2" 1/4" square cut for desired pinion angle and mounted in one fashion. A bracket on the inside of the frame may be welded but lower 2x2 must bolt to that bracket. MAX LENGTH OF LOWER MOUNTING BRACKET IS 6". MAX OF 3"X3" LOWER trailing arm  
  
CANNOT BE WELDED IN ANY FASHION. WATTS LINK KIT CAN ONLY BE BOLTED TO PACKAGE TRAY NO WELDING
16. Leaf Sprung Wagons and Sedans No aftermarket leaf packs; flat stacking will be allowed. 7 leaf's maximum, 5/16" maximum thickness, 2" stair step AND STAGGER, 4 clamps per LEAF PACK. Clamps maximum of 1/4" thickness 2" max width and bolted with 3/8" bolts.

### **STEERING**

1. Steering boxes must be mounted at factory location; however, you may utilize an aftermarket adapter plate if you prefer to change steering box OEM to OEM between manufactures.

2. TIE RODS MAY BE REINFORCED. AFTERMARKET PERMITTED. HEIM JOINTS PERMITTED.
3. Aftermarket steering columns permitted.
4. Center link must remain factory.
5. NO HYDRAULIC STEERING.

### FRAME

1. SEAM WELDING A-ARMS FORWARD IS PERMITTED. NO OTHER SEAMS MAY BE WELDED.
2. TILTING PERMITTED. YOU MAY TILT IN ONE SPOT PER RAIL ONLY NO EXCEPTIONS. NO EXTRA METAL IS ALLOWED TO BE ADDED TO WELD CAR  
BACK TOGETHER. 1/2" MAX BEAD. IF YOU DO NOT TILT AT THE BOX, YOU ARE NOT PERMITTED TO WELD OVER THE BOX WELDS, ONLY WHERE YOU TILTED THE CAR
3. A max of **4** "Fix-It" Plates may be applied as well as be formed to frame or bent but MUST meet the following specifications.
  - a. No Larger than 4" x 4" x 3/8" and may not be cut into multiple plates.
  - b. Must be fixated on an external side (top or bottom) of frame.
  - c. Must be designated by red paint.
  - d. NO Interior Framing or Pinning Permitted.
4. Rear frame may be dimpled or cut for rolling.
5. On none leaf spring cars a 22" X 6" X 3/8" MAX HUMP PLATE IS PERMITTED ON THE OUTSIDE OF FRAME CLOSEST TO WHEEL. Hump plates must be between the body mount in front of the arch and the body mount behind the arch. You choose the exact location.
6. No painting or undercoating on frames. No putty.
7. You may swap frames, but the car will be inspected based on make model and year of frame.
8. FRAMES MAY BE CLIPPED MUST REMAIN SAME MAKE MODEL AND GENERATION/ERA.
9. All body mounts may be changed to 5/8" BOLTS OR ALL THREAD WITH A MAX LENGTH ON BOLTS OR ALL THREAD 6". CORE SUPPORT ALL THREAD IS THE ONLY BODY MOUNT THAT MAY RUN ALL THE WAY TO BOTTOM OF FRAME.
10. A 1" space must be always maintained. This may be achieved utilizing any of the following: solid, OEM, Hockey pucks.
11. Boxes are limited to 4" space. Core supports a MAX space of 8". Core support spacers only, may be welded.
12. Rust repair is limited; ALL MUST BE PREAPPROVED.

### BODY

1. The Driver's door may be welded solid, and you may have full door skin 1/4" max overlapping no more than one inch of seam. DOOR SKIN NOT PERMITTED ON REAR DOORS No protruding metal or rails outside driver's door.
2. All other door seams may be welded in a 5" on 5" off fashion. Outside seem only.
3. Trunk 5" on 5" off.
4. Trunks may be dished or canoed. A 2" space must remain from trunk floor to trunk lid. Measurement will be taken from lowest point of lid and highest point of trunk if beat up.



5. YOU MAY ONLY USE THE FACTORY TRUNK LID NO HOODS. SPEAKER DECK MAY BE REMOVED
6. Mandatory: 2 10" holes one per side of trunk lid for inspection. Holes may be bolted with 3/8" bolts in 10 spots.
7. Trunk may be tucked.
8. Hood: May be secured in 6 Spots. Can be chained or bolted. If bolted, you may only do so in the following fashion: Angle 2" x 2" MAX 6" IN LENGTH WITH 8 TOTAL BOLTS. MEANING 2 CORE SUPPORT ALL THREAD AND 6 BOLTS THROUGH ANGLE  
TOTAL. maximum of 1/2" bolts. NO NINE WIRING HOODS. FRONT CORE SUPPORT MAY BE USED AS 2 SPOTS UP TO 1" ALL THREAD. ALL THREAD MAY NOT RUN THROUGH FRAME RAIL. MAX OF 3"x 1/4" WASHERS.
9. A minimum of 2 12" holes must be cut. Holes may be bolted with a maximum of 3/8" bolts and a max total of 16. WAGONS, HAND HOLES COVERS MUST BE REMOVED FOR INSPECTION.
10. Fenders may be cut and rolled for clearance and welded back together or bolted a max of 8 times with 3/8" max bolts.
11. All fenders and body lines may be creased both horizontal and vertical. Be creative.
  2. However, side rear fenders must remain upright in factory location, not beat down or inward.
11. Expanded metal Permitted at core support for radiator protection. MAX SIZE OF EXPANDED METAL 1/4 Water only in the Radiator.
12. No wedging
13. Speaker Deck may be removed or beat down. No rewelding of speaker deck in new locations.
14. Roof sign Mandatory for Identification.
15. No additional nine wire, banding, chain or cord allowed other than specified.

### CAGE

1. Four point "floating cage" Dash bar, rear seat bar two side rails. In addition to side rails a center bar from rear bar to dash bar. ALL CAGE MUST REMAIN INSIDE COCKPIT.
2. Dash bar must remain 5" from the firewall. IN ADDITION, ALL CAGE COMPONENTS, (WITH THE EXCEPTION OF THE ALLOWED DOWN LEGS TO BODY AND THE GAS TANK PROTECTOR) MUST REMAIN 5" AWAY FROM SHEET METAL INCLUDING TRANSMISSION TUNNEL.
3. Side bars can extend beyond DASH BAR 5 INCHES MAX AND CANNOT ANGLED IN ANY FASHION NOTHING OTHER THAN SIDE BARS MAY BE PAST THE DASH BAR.
4. THE SIDE BARS MAY NOT EXTEND PAST THE REAR KICK PANEL
5. Cage may be gusseted at corners. GUSSETS THAT RUN PARALLEL WITH FLOOR WILL BE ALLOWED. NO VERTICAL GUSSETS
6. ON DRIVERS SIDE AND PASSENGERS SIDE... A DOWN BAR IS PERMITTED BETWEEN DASH BAR AND REAR SEAT BAR FOR DRIVER PROTECTION OR EQUIPMENT MOUNTED ON FLOOR PROTECTION. HOWEVER, THE BAR MUST BE PLACED 10" OR FURTHER BEHIND BASH BAR and only welded to body SHEET METAL not to the frame!!
7. A gas tank protector is permitted. No Wider than 32". Gas tank protectors may butt up against the package tray

8. Halo bars recommended. Halo may be bolted to the roof IN TWO SPOTS MAX. HALO BARS MUST BE ON OUTSIDE OF CAR
9. From the halo bar a front bar may be used and can connect to the dash bar and welded WITH A MAX SIZE OF 2X2 INCH SQUARE TUBING.
10. Rear window bar. Limit of 2×2 1/4" from halo to speaker deck. a 5"X5" plate is permitted at the bottom of the rear bar and may overlap and be welded to the trunk lid. This plate must coincide with the 5 on 5 off rule.
11. MAXIMUM THICKNESS OF CAGE MATERIAL 4"X4" OR 2"X 6' NO PASSENGERS.
12. FENDERS must remain upright and parallel. Body mounts must be utilized in factory locations. 3-inch maximum washers. Body bolts may only pass through the top of the frame. IF FENDERS ARE WRAPPED, THEY MAY NOT BE WELDED OR BOLTED BACK TOGETHER TO BODY.
13. ABSOLUTELY NO PLASTIC FUEL CELLS> MUST BE AFTERMARKET PRESSURE TESTED FUEL CELL• For your convenience and ours, please remain within rules. If it does not say you can do it. It is NOT PERMITTED. If you have questions or concerns, please call first.

FOR TECH / BUILD QUESTIONS:

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# YOUTH CLASS

Youth Derby class is split into 2 classes one for large cars which are 80's and newer V-8 powered and small cars which are 107.0 inch and under with 4- or 6-cylinder engines.

## GENERAL

1. **ALL Competitors must have a valid state issued form of identification with a date of birth that states they are the age 12-16 at the date of the event.**
2. Entry fee & pit charge is waived\*\*
3. PASSENGERS are mandatory a parent, or adult 21 or older will ride along in car.
4. Please maintain the STOCK STYLE of build stated in the rules.

## DRIVETRAIN

1. **Solid ENGINE Mounts OK – Mounts cannot strengthen the frame!**
2. No cradles or braces of any kind
3. Transmission cannot have steel bell or shaft.
4. OEM crossmembers only with rubber mount. NO solid tranny mounts.
5. NO SLIDER DRIVESHAFTS.
6. OEM car 5 lug rear only NO BRACING, pinion brake permitted. no axel savers.
7. 1998 and newer must run factory watts link no exceptions.
8. Motor swaps and aftermarket bolt ins such as shifters and pedals allowed.

## BUMPERS

1. Any year OEM car bumper is permitted. You may cut or bend bumper ends for clearance.  
SMW bumpers (light) will be permitted. No other Homemade bumpers allowed.
2. No loaded bumpers.
3. Max 5"x5" off seam welded bumper.
4. You may add two plates one on each frame rail they must be between the front of the frame and bumper - max size of 6"x 6" x 1/4" to help keep the bumper on. These plates MUST attach to the back skin of the bumper. You cannot weld your frame to your sub-frame or to these extra plates.
5. You may hardnose bumpers on no extra metal can be used other than what was specified
6. Bumper shocks can be welded to the OUTSIDE of the frame only 6" back starting at the front of the frame. Absolutely nothing inside of any frames. You may use 2"by 2" 1/4 tubing 6" long in place of a factory shock. Anything welded after 6" will be cut!!!
7. No welding bumpers to bodies.

8. RIDE HEIGHT MEASURED FROM BOTTOM OF BUMPERS. FRONT MAX OF 22" REAR MAY NOT BE LOWER THAN 14".

### **SUSPENSION**

1. All suspension to remain stock.
2. OEM, COILS, SHOCKS only NO ALL THREAD.
3. No leaf conversions.
4. Rear shocks and coil springs must remain stock and in stock location.
5. HUMPS MAY BE CHAINED AROUND REAR IN ONE SPOT PER SIDE. No welding chain 6. 2003 newer Vic's must run factory aluminum components.

### **STEERING**

1. All steering components are to remain stock.
2. Aftermarket steering column is permitted.
3. NO REINFORCEMENTS.

### **FRAME**

1. Absolutely no welding of frame in any fashion other than specified.
2. no pinning, plating loading of frames. STOCK only.
3. All body mounts must remain stock including core support.
4. No shortening of frame.
5. NO TILTING OR COLD BENDING.

### **BODY**

1. Driver's door and passenger front door may be welded solid. Door skin permitted both front doors if desired.
2. All other doors must use 3/8 chain or 9 wire (3 wraps per location) 3 connections per vertical seams.
3. Trunk may be tucked but cannot connect to trunk floor in any fashion. TRUNK MAY not BE DISHED.
4. Hood must have a minimum of 2 10" holes one per side.
5. Trunk must have 12" inspection hole.
6. Hood and trunk may be fastened in 4 spots using 9 wire (3 wraps) or 3/8 chain NO ALL THREAD. You may also fasten hood and trunk in 2 extra locations to your bumpers using 3/8 chain or 9 wire (3) wraps Notching and pre-bending will be allowed. Do not weld notches back together.
7. Roof sign mandatory we want to know who you are!!!!
8. NO SHORTENING OF REAR OF BODY IN ANY FASHION, NO WRAPPING FENDERS, they must remain upright and parallel.
9. ALL BODY MOUNTS Remain stock no hockey pucks
10. CREASING The body is not PERMITTED.

## CAGE

1. Mandatory 4-point cage.
2. MAXIMUM THICKNESS OF CAGE MATERIAL 4"X 4" OR 2"X 6' side bar length no longer than the rear kick panel.
3. GAS TANK PROTECTOR BARS NO THICKER THAN 3"X 3" TUBING. MAX width of gas tank protector 24" and must stay 2" from packing tray. In wagons length is 32".
4. No down bars.
5. Dash bar must be 5" from firewall.
6. halo recommended and bolted to roof.
7. Absolutely nothing fastened to the cage.
8. NO REAR window BAR.
9. For drivers and passenger front doors must each have Padding between themselves and door.
10. If it does not say you can do it. It is NOT PERMITTED. If you have questions or concerns, please call first.

FOR TECH / BUILD QUESTIONS:

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# V8 TRUCK CLASS

V8 truck class is for ½ Pick-up trucks, Smaller V8 Trucks. SUV's, and Vans

1. Half ton trucks with HALF TON SUSPENSION and maximum of 6 lug axles only permitted
2. 4-wheel drives permitted but must remove one driveshaft
3. SUVs allowed
4. No leaf conversions
6. No kickers of any fashion will be allowed no matter the interpretation

## CAGE

1. 4 Point cage permitted with gussets in the corners, maximum 6" cage material. You may have a gas tank protector in the bed or off seat bar in Suv, tank protector max 32" wide, tank protector may weld to the floor of the bed but may not attach to the frame, tank protector may not go further back than the front of the wheel tubs in the bed. Gas tank protector is not for strengthening only to protect tank.
2. Halo bar is MANDATORY WITH A BAR FROM HALO TO DASH BAR MAX SIZE ON BAR FROM HALO TO DASH BAR IS 2"X2"
3. ONE REAR WINDOW STRAT MAX 3" WIDE 1/4" THICK 3" ABOVE WINDOW AND 3" BELOW.
4. DASH BAR MUST REMAIN 5" FROM FIRE WALL AND ALL CAGE MATERIAL MUST REMAIN 5" OFF OF FLOOR. SIDE BARS MAY EXTEND PAST THE DASH BAR 5" MAX AND MAY NOT ANGLE IN ANY FASHION. SIDE BAR CAN BE NO FARTHER BACK THAN THE REAR KICK PANEL OF SECOND ROW IN SUV MEANING FIRST ONE BEHIND DRIVERS SEAT. IN SUV THE GAS TANK PROTECTOR MUST BE IN FRONT OF REAR AXEL WITH A MAX WIDTH OF 32". 4X4" MAX MATERIAL. CAGE MAY BE GUSSETED HOWEVER NO VERTICAL GUSSETS WILL BE ALLOWED.

## BODY

1. Front doors may be welded solid all other doors may be welded with a 5" on 5" off pattern this includes rear doors and tailgates. DRIVERS DOOR SKIN IS PERMITTED 3/8" MAX AND MAY EXTEND PAST DOOR SEAM 2" FRONT AND BACK.
2. When welding tailgates or rear doors they may be welded to the bumper using the 5" on 5" off pattern
3. If you elect to drop the tailgate down behind the frame, no rear bumper will be permitted, tailgate may be welded to the end of the frame
4. Cab and bed MUST be welded together with 5" on 5" off pattern
5. Hoods may be bolted or wired in 8 spots, two spots may go around bumper, you may use 2"x2" angle 6" long to bolt hood shut with a max of 2 bolts per angle
6. Body/Bed may be bolted solid to frame with 5/8" bolts with maximum 3" washers top and bottom with the exception of the two mounts in the core support, these may be 1" all thread and be used as two of your hood bolts.
7. Quarter panels must remain upright, no wedging
8. CORE SUPPORT MAY HAVE RADIATOR PROTECTION WITH EXPANDED METAL OR SIMILAR APPROVE SHEET MAX OF 1/4" THICKNESS IN FRONT OF RADIATOR. THIS MAY BE STICK WELDED IN 10 TOTAL SPOTS 2" LONG OR BOLTED 8 TIMES WITH 3/8" MAX BOLTS MAX LENGTH OF 3"

### **FRAME**

1. Any OEM front and rear loaded bumpers permitted with all work done inside of bumper **HOMEMADE BUMPERS ARE PERMITTED 8"X8" MAX, POINT MUST TAPER OVER 32" AND POINT MAY NOT EXTEND BEYOND 4" OF FLAT FRONT OF BUMPER. SMW BUMPERS PERMITTED. BUMPERS MAY BE A MAX OF 24" HIGH AND A MINIMUM OF 16". MEASUREMENT FROM BOTTOM OF BUMPER.**
2. You may have a factory bracket OR a piece of 4"x4" tubing welded no more than 4" back on frame to attach bumpers front or rear. **THE FACTORY BRACKET MAY BE WELDED 6" MAXTOP AND BOTTOM.**
3. You may weld the factory shackle brackets to the frame, **NO ADDED MATERIAL**
4. You may weld the factory frame cross members into the frame using the following method you may have a 1" weld for each rivet that holds the cross member in from the factory. Do not abuse this rule.
5. You are allowed 4, 4x4" 1/4" Fix-It plates welded on.

### **SUSPENSION**

1. Tie rods may be reinforced, no heim joint style tie rods must have factory style ends
2. You may use 2 4"x4"x 1/4" plates to weld A-Arms down one on front and back of each upper a-arm if your front suspension is leaf spring you may use a piece of 2"x2" tubing from the frame to the axle no more than 3" welded to frame
3. You may use 1" all thread for shocks
4. You may have 4 leaf spring clamps on each side, two in front of axle and two behind, maximum size material for clamps is 2" wide by 3/8" thick. **NO AFTERMARKET LEAF PACKS.**

### **DRIVETRAIN**

1. Lower cradle, front plate and pulley protector only no other engine or transmission protectors allowed
2. Slider shafts permitted
3. Rear axles may be braced
4. Engine mounts may be solid but cannot add strength to the frame!

FOR TECH / BUILD QUESTIONS:

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# SCHOOL BUS

**BUSES PERMITTED:** LARGE BUSES: Conventional style front end buses only. NO flat nose or rear engine buses allowed.

## BUS APPEARANCE:

1. The mandatory number MUST be 3 foot square in size for the roof, and BOTH sides of the bus.
2. Bus MUST be painted any color other than "School Bus Yellow." NO obscene or derogatory signs, letters, or logos.
3. Driver/Sponsor lettering on areas other than the 6' x 6' orange Driver's Side square is permitted so long it is in good taste (remember this is a family show). All lettering and numbers MUST be neatly presented.

## BODY:

1. **BUMPER:** May be re-bolted or tack-welded to the bumper frame, bumper, or shock mounts. Front bumper may be shortened for tire clearance, but can NOT be completely removed.
2. **DOORS:** MUST be chained shut. The Passenger Side front door must be welded shut using metal bars or bar stock. NO sharp edges or protruding objects allowed.
3. **FENDERS AND INNER/OUTER WHEEL WELLS:** Tilt hoods and wheel wells MUST be in place. No cutting or reinforcing is permitted.
4. Mirrors, wheel covers, plastic, grill parts, hitch, hitch brackets and all soft chrome molding MUST be removed.
5. All dirt and loose pieces of glass MUST be cleaned from the bus.
6. Roll cage IS allowed.
7. Body mounts for body behind the rear axle may have large bolts, or u bolts. Max 6 attachment points. For hardware max ½ inch all thread, and 3x3 plates or U bolts allowed.
8. **GLASS/PLASTIC:** Glass MUST be removed, including headlights and plastic taillights, bulbs, mirrors, side windows, and the windshield. Any bus with broken glass anywhere (doors, body panels, etc.) will NOT be permitted to participate. EXCEPTION: front lights above the driver will be permitted.
9. **WINDSHIELD:** MUST have two (2) vertical straps in place of the windshield to prevent large pieces of debris from entering the Driver's compartment. Protection on the Driver's side window is also required. Additional reinforcement and screening will be permitted on the Driver's side window and half of the front window.

## BRAKES:

1. **BRAKES:** Bus MUST have 4 wheel brakes in good operating condition.

## DRIVER'S COMPARTMENT:

1. Reinforcements are only permitted in the Driver's compartment for safety.
2. Up to 3 batteries may be located inside the bus, provided they are secured and completely covered at least 8 feet from the Driver.
3. Airbags MUST be removed.

## EXHAUST:

1. Exhaust may remain STOCK and extend beyond the Driver's seat. The muffler and converter may be removed. Up to 2 feet of exhaust stacks may extend through the hood and have cross bolts. If the exhaust is located in the middle of the bus, it MUST have cross bolts.

## ENGINE & FUEL TANKS:

1. FAN BLADE: MUST be a clutch or electric of any make or model. Clutch fans MUST be protected by a radiator fan shroud or the fan blade itself MUST be removed.

2. Fuel tanks may remain stock in stock location.
3. If aftermarket fuel tank is used:
  - 3b. Stock fuel tank **MUST** be removed if an inside fuel tank is used.
  - 3c. An outboard marine engine fuel tank may be used.
  - 3d. **NO** stock tanks are permitted inside the bus. **NO- LP PROPANE MOTORS ALLOWED**
  - 3e. Tank must be mounted on a solid, flat surface located directly above the rear axle.
  - 3f. Tank must be securely mounted to the bus body by at least two (2) steel straps. **NO** rubber tie-downs permitted!
  - 3g. The tank will not be allowed if fuel runs out when the outlet line is disconnected or when the tank is inverted.
4. The fuel line **MUST** run under the floor pan to the fuel pump by original gas line or chemical/fuel resistant line. If using a non- stock fuel line, it **MUST** be securely fastened.
5. The fuel pump **MUST** shut off with the ignition switch.
6. **No more than 15 gallons of gas or diesel fuel is permitted.**
7. Radiator may be bypassed, but **MUST** remain in the original position; reinforcement will be permitted on the radiator only. All antifreeze must be drained and replaced with water. **(b.)** The heater system may be removed.
8. Freon **MUST** be removed per Federal Law.
9. **Hood** **MUST** be tied down in four (4) different locations.
10. A hole **MUST** be cut in the hood one foot (1') to the side of the center of the air cleaner, no larger than 9 inches (9") in diameter.
11. Hood springs **MUST** be removed. Hinges **MUST** remain hooked up.
12. Ignition switch may be relocated and/or altered providing the key or toggle switches are accessible within 20 inches (20") of the steering wheel.

**SUSPENSION, FRAME AND BODY:** These items **MAY NOT** be modified or reinforced in any way! Optional: If the steering mechanism is located outside of the frame, a protective piece of steel may be used. **LIMITED** reinforcement from the steering box to the firewall is allowed to prevent steering shaft damage. This protection may **NOT** touch the front bumper.

#### **TIRES:**

1. **BUS TIRES ONLY!** MAXIMUM TIRE PRESSURE. SEE COLD RATING ON TIRE. Officials **MUST** be able to read all digits and wording: make of tire, tire size, and ply.
2. **NO** inner liners of studs. Only air allowed in tires. **NO** solids or liquids are permitted.
3. **ALL** wheel weights **MUST** be removed from tires/rims.
4. If you have a split rim it must be welded satisfactory to judges approval. Regular rims encouraged.

#### **TRANSMISSION:**

May alter or relocate the shifter from the stock location. No sharp objects are allowed to stop shifting linkage from coming off, it is recommended to wire, clip, pin, or change linkage. The transmission lines may be by-passed.

FOR TECH / BUILD QUESTIONS:

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# COMBINE

1. All glass and lights must be removed from the unit.
2. Fuel tank must be mounted in grain tank.
3. Cab door must be chained or welded shut.
4. No duals are allowed, no calcium in tires, must be Ag type tires, no earthmover tires.
5. Remove ladder, unloading auger and choppers.
6. Must have cab or roll cage.
7. All drive belts to separator and head removed.
8. Bars must be welded on cab across the front and side to protect the driver.
  10. Radiator must contain water only.
  11. Batteries must be mounted in secure box.
  12. No sharp edges to intentionally puncture opponents' tires will be allowed.

## Header Requirements

1. All combines must have a header, maximum head width 16ft.
2. Head must be fixed between 18 and 24 inches off the ground with no float or hydraulic action.
3. All grain tables must have the reel, sickles, sheet metal points and guards removed.
4. Cornheads must have sheetmetal points, corn snouts and snapping rolls removed.

## Combine Demo Derby Event Rules

1. Derby will consist of heats based on the number of entries.
2. All combines will be inspected and approved at pit meeting.
3. Derby officials may accept or reject any or all entries.
4. All drivers must wear a helmet and safety belt.
5. The decision of the judge and derby officials will be final.
6. No direct hits to the driver's area.
7. Any combine not making a hit within three minutes is disqualified, officials will give 1 warning.
8. A lath stick will be mounted within the driver's reach, stick must be broken off when driver is unable to continue.
9. All movement of combines must be halted upon signal of officials or announcers in case of fire, injury or official's concerns for safety.
10. Unsportsmanlike conduct will result in immediate disqualification. No alcohol or drugs allowed. Drivers are responsible for their crew.
11. Officials and competitors will work together to make this a safe and entertaining event for the fans and competitors.

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# Kids Power Wheels Derby

1. Any regular electric Power Wheel is allowed. No 4 wheeler type vehicles allowed (ATV, Gator). Child's legs must be in a compartment. Ride in not ride on!
  2. Kids 5-10 years of age may participate. **Drivers only no Passengers**. Only 20 Power Wheels will be accepted. No entry fee will be charged. **Pre-Registration is highly recommended and can be downloaded from the website.**
  3. **Helmets must be worn at all times**. Bicycle helmets are permitted.
  4. The vehicle is allowed to have UP TO a 12 volt lawn mower battery, which cannot be mounted in the passenger seat and battery must be secured by straps or bolted and sealed away from the child.
  5. Tires may be covered in duct tape to prevent them from breaking.
  6. Motor must remain stock. The only modification you may use and will be allowed is using a lawn mower battery.
  7. Decorative changes can be made to the Power Wheel to make it look like a derby car, however, there can be no reinforcement to the power wheel. Changes and additions are only decorative--example: header pipes sticking up, painting the car, etc. Decorations may only be made from cardboard, paper, and tape. **No hard plastics or metal decorations.**
  8. If Child gets out of vehicle during event that Child is disqualified. **One** Parent must accompany child on the track during event. NO PARENT COACHING FROM SIDELINES.
- 10.Seatbelts must be worn at all times**. If original seatbelts are not in place, then a replacement seatbelt must be available and securely fastened. Seatbelt must fit properly.
- 11.Staff will attach balloons on front and rear of vehicle at time of event. Child is out when both balloons have been broken. The winner is determined by the vehicle with 1 or more balloons that are still intact and not popped. Winner Trophy will be awarded.
- 12.ALL VEHICLES will need to be inspected by 6:00 pm. Vehicle will be taken from Tech Inspection to Competition area where they will remain until the event. Have all batteries mounted in vehicle, charged and visible for Tech Inspector.
- 13.At all times remember that this is for kids! Any vehicle deemed unsafe or with unfair advantage will not be allowed to compete. Don't add something that could cause them not to be in the derby. You could have a disappointed child if not allowed to run! Please follow the rules.

FOR TECH / BUILD QUESTIONS:

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