

## **Inter-State Fair and Rodeo**

### **Limited Weld Compacts**

Compacts will use these rules with the exception of the 108 wheelbase max and no larger motor than a V6

1. ALL RULES WILL BE FOLLOWED, OR YOU WILL NOT RUN.
2. Any American make car can run with the following exceptions; No 2003 or newer FoMoCo frames, No 1970 or older Lincolns. No 1973 or older Chrysler Imperials or Imperial sub-frames, 4x4's, ambulance, hearses, trucks, limousines, frames or full cars etc....
3. All drivers must sign the driver's paperwork, or they will not drive in the event.
4. Driver must wear a seat belt, helmet, FIRE SUIT JACKET (no more exceptions to the fire jacket rule).
5. All Drivers and Crew Members must attend the drivers meeting.
6. No hot rodding in the pits, keep it at an idle. This will be the quickest way to be DISQUALIFIED.
7. You are given 1 minute to make an aggressive hit. After 1 minute that car will be disqualified, not the team.
  1. You are only given 1 minute in total, not 1 minute to get started and 1 minute to hit.
8. No drivers are allowed alcohol - period. If you are wearing a driver's band and drinking any form of Alcohol you will not run -
9. Cars will be re-inspected before any prize money is paid out
10. Judges decisions are FINAL!!! THIS IS NOT A SET OF RULES BUT A SET OF GUIDELINES OF HOW TO BUILD YOUR CAR. IF IT DOESN'T SAY YOU CAN SPECIFICALLY DO SOMETHING THEN YOU CANT.
  2. Car Preparation
    1. No Painting or Undercoating of the frames or inside of the body at all will be permitted. No buffing or grinding frames or bodies except where welding is specifically allowed in these rules.
    2. All cars must be stock, unless modification is specifically stated in the rules.
    3. All glass, plastic, chrome, and interior must be removed from car before arriving to the derby.
    4. All trailer hitches and braces must be removed.
    5. Batteries must be moved to passenger front floorboard. They must be properly secured and covered.
    6. You must have a number in Bright colors on each front door and must have a 15"x15" sign on the roof of your car with car number on it for judging and recognition of the car. You cannot use the roof sign to strengthen the car.
    7. All cars must have working brakes. If the car is not able to exhibit the ability to stop it will not be inspected.
    8. NO welding other than what is mentioned in this set of rules.

#### **Bumper**

Bumpers are interchangeable. Any automotive bumper and bumper brackets may be used on any car, but no more than one set of bumper brackets may be used. You can weld bumper brackets or towers to the frame. You can weld bumper brackets and shocks to the bumper. You can weld shocks to shock towers.

\*\* No brackets can extend any further back than the first 14 inches of the frame. Nothing can be put inside the frame and all brackets can only be on one side of the frame. Instead of using bumper brackets you can use 1-4" wide x 3/8" thick strap extending from your bumper down one side of the frame and cannot extend any further back than the first 14" of the frame. You are also allowed to wrap this strap around the front of the frame 4" to create an "L" shape this is to give you enough material to weld your bumper to the strap. Plate must remain flat and on one side of the frame with nothing inside the frame. Do not abuse this rule you will cut it. You may reinforce bumpers on the inside of the bumper. All support must be inside besides 2 8x8 3/8 mounting plates. The bumper chrome must remain the stock shape, but you may have metal put inside for reinforcement. You may trim bumper ends or fold them around. Welding the bumper skins (chrome to inner liner) is allowed. Weld them solid we do not want them coming off. No welding bumper to the body in any fashion, except on a 71-76 GM Wagon Rear bumper it may be welded to the body if still in factory location.

Bumper height not to exceed 22" to the bottom of the bumper to the ground and must be a minimum of 14" from the ground to the bottom of the bumper or the frame whichever is lower. Bumpers must be in stock location.

Front and rear bumpers may have 4 loops of wire from radiator support/trunk lid or deck (to sheet metal only do not go around core support bolts) to bumper (not frame). These cannot be placed in front of the radiator. If you choose to manufacture a homemade bumper it must conform to the following size limits. It can be no larger than 8"x 8". The point must taper over an area of at least 32" Overall the bumper cannot exceed 12" wide at the tip of the point. The point may only extend out 4" from the flat part of the bumper.

The bumper must be completely in front of the frame rails. No part of the bumper may extend back past the front most part of the frame rails.

Frame Shortening You may shorten the front frame on a FoMoCo or GM on the front frame only. You may cut the frame off flush with the front edge of the body mount hole. If it is a weld on mount leave the remaining portion of the body mount in place. If you remove the body mount completely or relocate it, you will not run.

Cadillacs must remain 18" long from the front side of the spring bucket lip forward call if in question. And remember can only weld main frame seams no fingers or brackets coming off the frame.

#### Frame Welding

The only frame seam welding allowed is:

1. A-arms forward top frame seam, 1/2" wide maximum bead.
2. A total of 14" of welding allowed behind the a-arms. This will allow the FoMo Cars to cut and tip the box and reweld with 14" of weld and the old iron cars to reweld the seams where the factory missed or any other factory welded seam. Only factory welded seams may be rewelded. If you choose to cold bend the car do not support with the cross member. These are the only ways to bend a fresh car.

Rust Repair – Call before fixing any rust on the frame. The rust can be cut out a piece cut exactly to the hole size may be butt welded in. Chrysler k-member cannot be altered. Frame Shaping No frame shaping is allowed.

Front Suspension Tie Rods and Ball Joints - Tie rod tubes may be reinforced, or tube may be used. Do not reengineer the way the steering components mount to the frame. Only stock car replacement tie rod ends are allowed; no pickup, heim joints, or van tie rod ends. After market ball joints are allowed such as mp1004, mp1002 and so on NO homemade ball joints or bolts permitted. A-Arms - A-arms may be welded down but may not be reinforced. If welded it may only use up to 2- 2x4x1/8" thick strap. This strap must weld to the a-frame and cannot extend farther forward or backward than 1" past the widest part of the a-frame. No changing or modifying the a-arm brackets.

COIL SPRINGS must be a factory automotive style spring.

Steering box – May be interchanged but must remain a stock box for a car that is legal in the class you are running.

Pitman arms must remain stock or stock replacement

Idler Arm – Idler arm must remain stock or interchanged for an idler arm for that is off a car that is legal in the class you are running.

Hubs – Must remain stock for the spindle you are using no aftermarket hubs or rotors. Brake calipers must remain stock for the stock spindles

Spindles – must be stock for a car that is legal in the class you are running, with no modifications.

Rear Suspension Leaf springs must be stock and made of stock spring material, with a 1" stagger and no springs can be as long as the main leaf. You can only have a total of 9 leaf springs per side no thicker than 3/8" thick and no wider than 2 3/4" wide. The main leaf must be the top spring in the spring pack and leaf springs must go down from longest to shortest in minimum 1" stagger. You can re-clamp springs, 4 clamps per side with only 2 being homemade. Homemade clamps can't exceed 2x4x1/4". You may weld leaf spring mounting brackets to prevent them from becoming unbolted but do not move the brackets. You can change coil springs to a stiffer spring, you can double the rear springs (they may be tied together in no more than two spots, do not weld them together), or put spacers in sagging coil springs to get your height, do not raise the suspension any other ways except what is listed above. You can wire, or chain coil springs to rear-end and frame to prevent springs from falling out, do not go through body as this would be another body mount. No all thread shocks. Or bolt thru coil spring. You can loop chain or wire (1 loop of 3/8" chain or 4 loops of #9 wires) from rear end to frame in 1 spot on each side, must go around frame, do not bolt the chain to the frame. We are going to allow you to weld the chain to the side of the frame, for your chains from the frame to the rear end, you can weld one link only to the side of the frame if you choose to weld the chain instead of wrapping it around the frame.

Rear-Ends Use rear end of choice but must be no more than 5 lugs. You can tilt rear end if you wish. Welded or posi-track highly recommended. Back braces are welcome. Braces may not extend more than 4 1/2" on the outer 10" of a stock size axle tube or 10" on the remaining housing. Rear end control arms can be reinforced. No Postal Mopar style rearends.

They must start from a stock set but can be reinforced. They must attach in stock configuration for the suspension setup you are using. Watts-Conversion are not allowed. No changing out rear package trays on frame. You must use the factory brackets that came with the car you are running. No Relocating brackets on the frame.

## Tires

Tires no bigger than 16 inches, No split rims, No studded tires. NO Foam filled tires permitted. Doubled tires are ok – we don't want any flats!!! Valve stem protectors are ok. Tires may be screwed to rims. Wheel reinforcement is allowed as long as the wheel starts with a stock wheel, and the reinforcement stays within the factory bead. Bead locks are permitted in this class. Bead locks may be no more than 20" in diameter and can be on inside of tire only.

Motors and Transmission Frame Cross Member – You are allowed 2-4x6 plates on the frame engine saddle to attach your engine mounts to. Motor mounts may only go to the frame engine saddle not into the frame or engine saddle.

Motor - 1. Use motor of choice, motor must be in stock location. Distributor Protectors are allowed but if you use a dp it must not come in contact with anything. Firewall will be cut out completely behind it. If we feel that the car has been built for the dp or any part of the protector is being used to support the car you will not run or will be asked to change it Mid Plates are allowed. If we feel that the car has been built for the midplate or any part of the protector is being used to support the car you will not run or will be asked to change it. Lower Cradles are allowed but must attached to a factory style engine mount, with rubber bushing, attached to frame. The factory engine mounts are the only way of tying the motor down. Pulley Protectors are allowed but only if the sway bar is removed. If we feel that the car has been built for the pulley protector or any part of the protector is being used to support the car you will not run.

Transmission Brace and Skid Plate, you may run multiple bars down or one solid plate that conforms to the transmission and may run from the back of the heads or DP to the back of the transmission. If these bars or plate catch into the sheet metal, you will cut reliefs into the transmission tunnel. Your trans brace can only be 12" were it meets the transmission cross member (see below for cross member). You are allowed to build a 90-degree angle where it meets the transmission cross member and be tied down by one 3/8" chain or 2 – 5/8" bolts with 1.5" washers. Cannot be welded!!!! Transmission Cross Member You must run the transmission cross member in the stock location for the car you are building. You can weld a single piece 2" angle iron no thicker than 1/4", no longer than 8" to the side of the frame to support the cross member. You must remove the stock mount if you run the angle iron. You must replace the cross member it can be no larger You may run wire from frame rail underneath back of car, behind rear end with 4 loops of wire or 1 loop of 3/8 chain or cable. This may go around the frame, it may go through a factory frame hole, or you can weld 1 –3/8 chain link to the side of the frame to run the wire through, but do not reinforce the frame with the chain link or you will cut it off. This wire may pass through the trunk floor if you choose.

## Radiators

For mounting radiators you may use up to 4 – 1/2" all thread. This may pass thru the bottom of the core support. This must not pass thru upper core support. It may be attached to a 2"x 6" 1/8" flat steel and must be welded to the core support they must be outside the fan. No radiator guards allowed.

## Body Mounts

Body mount bolts can be replaced with 3/4" bolts, body mounts can be replaced with steel or washers but must be 1" thick and have the same diameter as stock spacers. Bolts may

extend through body and have up to 1-4"x4" washer on top, washers must be separate and cannot reinforce the frame. Bolts must be up inside of the frame. If you choose to use a body mount hole for your trunk ready bolt this does not have to be up inside frame, the plate can go on the bottom side of the frame and be no larger than 3". if you choose to leave in the stock rubber pucks you must leave the metal cones inside the rubber puck. You must leave at least a 3/4 space if using the factory rubber spacer. Do not devise a way that enables you to suck them down tight. Radiator support mounts can be removed, and you can suck the radiator support down solid. Absolutely no body mounts may be moved or added, do not shorten the front of your car and move back past the body mount hole as your car will not run. If you must build core support spacers you may weld it either to the body or the frame mount, but only one side can be welded. Core Support Spacers cannot exceed 3" square material. The front frame must not be shortened to far that the 1" all thread must pass through the factory stamped hole.

The all-thread may only be welded to the side of the frame in this location.

Hoods and Front Clips Hood must have at least a 12-inch square hole cut out in case of fire. Any holes in hood may be bolted back together with 3/8" or less bolts and 1.25" diameter washer no more than a total of 10 bolts allowed to pinch the hood sheet metal back together. You may cut multiple holes but do not exceed the 10 bolts. You are allowed 6 spots to hold the hood on; you must have a minimum of 4 tie down spots. You may have up to 1" all-thread, it may go from the hood to the frame, but must go through the front body mounts, this may be welded to the frame after it passes through the body mount but may not be nutted underneath the body mount if it is welded. All other tie down spots must be sheet metal to sheet metal only, and the hold down bolts cannot exceed 8" in length! All hood bolts must be placed outside the windshield bars. You may have plates for hood tie down, not to exceed 5x5x1/4" square or 6" x1/4" round. Front core support cannot be moved back from its factory location. It must stay bolted to the fenders the same location that it came factory.

Do not cut off the back of the fenders. They must remain stock length. You may cut wheel wells for tire clearance. Fenders may be bolted back together with 5 -3/8" bolts or less with 1.25" diameter washers. No rolling your fenders and welding them. If you wrap or fold your fenders around the front of the core support do not exceed 4 - 3/8" bolts with 1.25" washers to bolt back to the core support of fender.

#### Windshield Bars and Firewall

Firewall - Do not alter firewall!!! Besides what is mandatory in these rules!!

Window Bars - For safety, all cars must have (2) windshield bars extending from the roof of the car to the firewall/dash, straps cannot be any larger than 3/8"x3" flat strap. These bars must be mounted outside of the DP! If and only if you remove the firewall/dash completely between the straps you can connect these two bars. The removed part must be completely removed and must be as wide as the vertical bars. The horizontal bars connecting the two vertical bars cannot be any larger than 3/8"x3" straps. No more than 6" of strap material allowed on the roof and no more than 6" of strap material allowed on the firewall. Do not go over 6" on roof or firewall or you will cut. At least 14 inches apart at firewall.

#### Doors

All passenger doors must follow the weld 5" on 5" off method with max 3" by 1/8" strap. Do not weld them solid. Do not overlap strap or you will cut the strap off. You may weld

your driver's door shut solid with nothing larger than 3" by 1/8" strap and must follow the door seam. You may fold tops of doors over and weld the outer skin and inner skin together, but you are not allowed to add any material. If you chose must be tied shut in six locations using 1/2" bolts no longer than 6", 3/8 Chain, or #9 wire. If we do not deem the car safe to compete you will add more fastening points. You can add bracing to the exterior side of the driver's door. This bracing must not stick any further out than 2" from the door and may not have any sharp edges. You are also allowed to carry the bracing up to 6" past the exterior door seam either forward or backward.

#### Cage

All cage material must be no larger than 6" od, unless specified for a specific rule smaller. You cannot stack your cage material. It must also be a minimum of 4" off the floor everywhere except the down legs going straight down. No cage material may be within 6" of the firewall and any part of the engine or components and be a minimum of 4" off the transmission tunnel which cannot be altered. You may weld a bar behind the seat from doorpost to doorpost, it can be an X do not connect directly to frame, and you may also have a single bar (with no extensions), across your dash area to replace your dash .You may run a bar connecting the dash bar and seat bar inside of the front doors only. You may weld two down bars from the cage to the frame vertically or to the floor to protect batteries and your feet. These down bars must remain behind the inside door seem and may only be welded to the top side of the frame. These bars cannot not exceed 2"x3". You must have a roll loop behind the seat, which must be welded to the floor or frame and may be welded or bolted to the roof. You may also weld a steering column to the cage. Side bars including roll over may be a max length of 62 inches long. Mopar's are allowed to run a 1" bolt with a 5" plate on both sides (frame and body) in the front most frame hole in the rear frame. You are then allowed to weld a kicker from the door bar and weld to the top of this plate. It can be a maximum of 2x3" square tubing. All Mopar cage material must be 5" forward from the center of this body mount hole other than the kicker explained prior. Some Mopar's have a very tight passenger compartment and you may need to run the halo through the small back window, mainly Cordoba's, call first.

#### Gas Tank Protector –

**GAS TANK PROTECTOR.** It cannot attach to anything other than your cage. It must be centered between your frame humps. It cannot exceed 24" wide. It can angle in from your roll over protection. It must be a full 1" away from all sheet metal, which cannot be removed. The bracing must be 4" above all floor sheet metal, which cannot be removed, measured from the highest flat area of the floor in the rear seat area. Gas tank protector must be on all 4 sides of the tank, front, back, both sides. May extend 6 inches above the speaker deck. On a 71 – 76 GM wagon they may extend no further back that the start of the rear end tunnel and May extend 6 inches above the rear side window bottom lip.

**Fuel Tank, Oil Coolers, & Transmission Coolers** Original gas tanks must be removed. You must use a boat tank or well-made fuel cell, and it must be properly secured and covered. Only metal tanks may be used. Fuel line must be secured and fastened properly. Keep away from exhaust. Place fuel cell behind driver's seat or in the center of the car where the back seat use to be. No other source of gas inside the car at all. Engine coolers are allowed. These coolers cannot be placed to reinforce the car. No bolts may extend through the frame to create a body mount.

#### Trunks

You may weld your trunk shut with nothing larger than 3" by 1/8" strap and must follow the trunk seam. Trunk may be welded using the 5" on 5" off method, do not weld solid. If you chose must be tied shut in six locations using 1/2" bolts no longer than 6", 3/8 Chain, or #9 wire. You can fold hoods or trunk lid over. Do not slide your hood or trunk forward or back, trunk must remain on hinges. Trunk lids must be stock shape but may be folded in but keep it clean. Rear fenders may be folded around but do not attach to trunk lid. 2-1" Allthread may go from the trunk lid to the frame or trunk pan, if it passes through a body mount hole you must have a 1" spacer between the body and frame.

Do not remove or alter the speaker deck.

GM Wagons must remove all rear decking and seat components.

Repair Plates:

You are allowed three 4" by 6" by 1/4" thick repair plates per frame rail. This plate cannot wrap around the frame. This plate must not prevent the inspectors from seeing inside the frame. If you cover a frame hole with no other way to look in we will cut or drill a hole.

All other rules above must be followed