

## **FWD Midsize Weld 2023**

### **General Rules-**

1. FWD ONLY!!
2. No Fresh Paint or Undercoating on the frames at all. No buffing or grinding frames or bodies except where welding is specifically allowed in these rules. No painting on the interior of the car.
3. All cars must be stock, unless modification is stated in the rules.
4. All glass, plastic, chrome, and interior must be removed from the car before arriving at the derby.
5. All trailer hitches and braces must be removed.
6. Batteries must be moved to the passenger front floorboard. They must be properly secured and covered.
7. You must have a number in bright colors on each front door and must have at least the size of a 15"x15" sign on the roof of your car with the car number on it for judging and recognition of the car. You cannot use the roof sign to strengthen the car.
8. All cars must have working brakes.
9. NO welding other than what is mentioned in this set of rules. If your car is found with any welds, other than what is allowed, and you refuse to fix it to the judge's satisfaction, you and your car will not run!!

### **Shortening-**

1. You may shorten up to the core support.

### **Bumper-**

1. You may have a car, manufactured or loaded bumper, seam welded is fine!!
2. If running a tube bumper the ends of the tube may be cut and curled towards the cab of the vehicle.

### **Bumper Brackets-**

1. You get a 14" bumper bracket, this will be measured from the back of the bumper. Anything past 14" will need to be cut off. Bumper bracket thickness may not exceed 3/8" thick. Cannot exceed the height of the frame (for example: a Camry frame rail is taller than a W Body, so the plating on a Camry will be taller than the plating on a W Body.)
2. Your bracket may be on all 4 sides, again not exceeding 14" from the back of the bumper. Square tubing may be used instead of a bracket.
3. Rear Bumper may only have a 6" bumper bracket measured from the back of the bumper.
4. If there are no holes to see inside the frame we will drill one to inspect. We will allow you to weld the hole back shut if nothing is found.

### **Tires & Wheels-**

1. Any tires and wheels allowed.

### **Rear Ends-**

1. You may have (2) 3/8" chains total to hold the rear end down.
2. You may reinforce stock control arms.

### **Front Suspension & Steering-**

1. You may have aftermarket struts, ball joints, and tie rods.

### **Doors-**

1. The doors may be welded 5" on 5" off with 3"x 5" 1/8" patches.

### Body Shaping-

1. You may have body crease but absolutely no welding of any crease, etc.

### Body Mounts-

1. All body mounts may be replaced with 1" all thread.
2. You are allowed 2 extra body mounts from frame to sub frame with 4" of weld on top and bottom. (The only thing that may be welded to the frame is the 1 inch all thread) (NO WASHERS NO NUTS, ETC) If you are not using the 2 extra body mounts you may have 2- 4"x4" 1/4" plates to use how you would like firewall forward.

### #9 Wire-

1. You may have 1 location of 9 wire per window opening with 4 strands of 9 wire.

### Trunks & Hatches-

1. Trunks may be 90 degrees tucked. Or you may dish/ canoe your trunk lid.
2. You may weld your trunk lid shut in (6) spots using up to 3"x5"x1/8" patches on the factory seam.
3. You can fold hoods or trunk lid over. Do not slide your hood or trunk forward or back, the trunk must remain on hinges. Trunk lids must be stock shape but may be folded in but keep it clean.
4. (2) 1" All-thread may go from the trunk lid to the frame or trunk pan. Only 4" of weld on the frame and threaded rod must stay vertical. Threaded rod cannot extend past the frame.

### FWD Weld

### Hoods-

1. Hoods may be secured in one of the following ways:
2. You may have (2)- 1" threaded rod that run through the front body mount. Your other 4 tie downs may go to the body only with one of the following 2" X 2" 1/4" angle iron with a bolt, 4 spots of 4 strands of 9 wire, 4 spots with 3/8 chain, or 4 spots of 1" threaded rod 8" pieces. These pieces cannot exceed 8" long.
3. If you don't use the threaded rod you may use 4 spots of body to the body of one of the following: 2x2 1/4" angle iron with a bolt, 4 spots of 4 strands of 9 wire, or 4 spots of 3/8 chain.
4. You may have a total of 10- 3/8" bolts to bolt the hood back together in openings.
5. Your factory hinges do not count as a hood tie down.

### Wheel Wells-

1. 5- 3/8th bolts per wheel well with standard washers.

### Rust Repair-

1. You may only fix the floors where your feet, battery box, gas tank, etc (safety locations only)
2. If the frame is rusty please contact the inspector listed at the end of the rules.

### Cage-

1. All cage material can be no larger than 6" OD, unless specified for a specific rule smaller or larger. All cage material must be a minimum of 4" off the floor everywhere except the down legs going straight down. No cage material can be within 6" of the firewall and any part of the engine or components, and all cage material must be a minimum of 4" off the transmission tunnel which cannot be altered.

2. You may weld a bar behind the seat from doorpost to doorpost, it can be an X, but do not connect directly to the frame. You may also have a single bar (with no extensions), across your dash area to replace your dash. You may run (2) bars connecting the dash bar and seat bar inside of the front doors only. You may weld (2) down bars from the cage to the body vertically or to the floor to protect batteries and your feet. These down bars must remain behind the inside door seam and can only be welded to the top side of the frame. These bars cannot exceed 2"x 3".
3. Sidebars may be up to 6"x6", and cannot exceed 62" long, including the rollover bar.
4. 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.

#### Gas Tank Protector-

1. Gas tank protector cannot attach to anything other than your cage. It must be centered between your frame humps. It cannot exceed 32" wide. It can angle in from your rollover protection. Gas tank protector may be tight to the tin. 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. Gas tank protector may extend 6" above the speaker deck.
2. If running a wagon you must follow the sedan rules. We will measure it as a sedan.

#### Rear Window Bars-

1. You may have 2"x 2" window bar with 6" on the roof and 6" on the trunk. The 6" on the roof and trunk need be from the window opening.

#### Front Window Bars-

1. You may have 2 locations of 3/8 chain, 2 locations of 4 strands of 9 wire, or 2- 3/8th 3" flat steel window bar.
2. Must be within 6" of the window opening.

#### Motors-

1. Motor mounts can either be reinforced or replaced with 2"x2" square tubing.
2. You may run headers.
3. Carbing EFI motors is allowed
4. NO full engine cradle allowed, but you are allowed a basic halo to protect the carb. (ex: the top half of the full cradle could be used as a carb protector nothing is allowed on the lower half of the engine. No tranny brace)
5. Header protectors are allowed.

#### Radiator-

1. You may run any radiator.
2. You may run an 1/8" radiator protector on the front side of the core support, running from the inside frame rail to the inside frame rail.
3. No radi barrels allowed.

#### FWD Weld

#### Interior Equipment:

1. You may have the following: an aftermarket steering column, shifter, gas and brake, transmission cooler, and battery box.
2. All equipment must be fashioned tightly to the vehicle! \* We do not want to see anything come loose during the event, if it does, your stick will be pulled. Ratchet straps will only be sufficient as a backup.
3. You cannot use any interior equipment to strengthen the car in any way. If any equipment is deemed to strengthen the vehicle, you will be required to relocate it.
4. All battery boxes and gas pedal/brake pedal must be bolted to sheet metal only; they cannot be attached to the frame or cross member in any way. No Larger than 1/2" bolts and standard washers may be used to mount items (No full plate washers underneath).

#### Gas Tank-

1. 15-gallon tank max, Fuel cells must be well constructed and out of durable material. No plastic tanks, metal is preferred, boat tank type is fine. Any splashing, spilling, or leaking of fuel will result in a broken flag. Fuel cells are recommended to be mounted to the gas tank protector/ cage. No "Gas Tank Holders". Fuel lines must be secured.
2. Fuel tank must be bolted or chained in place with a floor mat covering it. No ratchet straps unless it is a secondary device.

#### Pre-Ran:

1. All pre-ran cars get 4- 6x6 1/8 plates