



## **2025 DEMO 3 – Motor Swap Rules (Tilted)**

**Sanctioned by D.E.M.O.**  
**[www.demo-motorsports.com](http://www.demo-motorsports.com)**

### **Competition Format**

One shot deal (15) entries

### **Car Choice**

Any RWD 1980-2002 cars only. (All cars must be fresh)

### **General**

If it does not say you can do it in the rules you will not be permitted too. This is a motor swap set of rules and these rules tell you what you can do.

### **Core Support/Radiator**

You may mount the radiator in factory location using (2) strands of #9 wire, or (2) rachets straps, or (4) ¼ inch all thread sticks bolted to a piece on top of the radiator. 80's and newer FMOCO cars will be permitted a 2" by 2" spacer to the bottom of the core support. This must be free floating and bolted in. You will be permitted to bolt a factory condenser in front of the core support.

### **Front Fenders**

No modifications permitted.

### **Firewall**

You may cut this out for distributor clearance. You must have a fire blanket or flap over the hole cut out.

### **Hoods**

Hoods must be open for inspection. Hood may attach the factory hinges and can be wired shut using (6) locations of double strands of #9 wire. All hoods must have at least a 12 in. X 12 in. hole over the carburetor.

## **Doors**

The entire outside of the driver's door must be reinforced with minimum 1/8 in. thick metal to a maximum 3/16 in. metal. This metal plate cannot extend more than 3 in. from front factory door in any direction. All other doors must be wired shut using (6) locations of double strand #9 wire per door.

## **Quarters Panels**

No creasing will be permitted.

## **Trunk**

Deck lids must be factory to make and model of the car. Deck lids must remain in their original position above the rain channels. You may cut the trunk half way and bend it down into the trunk. Speaker decks are not permitted to be removed. Factory coil sprung cars will be permitted to dish the center of the trunk. Trucks will be permitted, a maximum of (12) locations of double strand #9 wire. All trunks must have a minimum of (2) 10 in. X 10 in. inspection holes over the rear bolt holes at the backside of the hump.

## **Window bars**

Maximum of (2) - 3 in. wide X 3/8 in. thick flat bar in front window. Maximum of (1) - 3 in. wide x 3/8 in. thick flat bar in the rear window. Front bar can be attached the first continuous 6 in. onto roof and the first continuous 6 in. onto firewall or to top of dash bar. The rear bar can attach the first continuous 6 in. onto roof and the first continuous 6 in. onto trunk lid and be mounted to sheet metal only. The 6 in. on trunk lid must start at trunk seam by speaker deck. All window bars can be attached by bolting and welding. Both bars in front window must remain within the exhaust tube width.

## **Cage/Halo**

A simple 4-point cage consisting of a (1) dash bar, (1) rear seat bar and (2) side bars will be permitted. All cage components will have a maximum size of a 3 in. X 3 in. X 1/4 in. OR 4 in. X 2 in. X 1/4 in. wall tubing except side bars - 4 in. by 6 in. by 1/4 max. No stacking material will be permitted. No cage component can be contoured or rounded. All cage components must be 4 in. above body bolt elevation. Rear seat bar can be no further back than the rear kick panel. You will be permitted (2) down-legs to the frame; these must run vertical from your side bars or rear seat bar only. Side bars can be a maximum length of 60 in. long and must stay within the drivers compartment.

Halo can not be any further back then your rear seat bar and must run vertical over the roof of the car. Halo bar can attach to your side bars only.

Gas tank protectors are permitted to be a maximum of 32 in. wide and centered in the car. GTP are not permitted to be within 3 in. of any sheet metal or package tray. On leaf sprung cars the GTP is not permitted to come any closer to the rear pumpkin or sheet metal than 4 in. (Depending on make and model of the car) GTP are permitted to have the back and sides boxed in for safety.

The cage, gas tank protector, and halo bar can have (1) gusset 12 in. maximum to the longest point per corner.

### **Body Mounts**

All body bolts will be permitted to be changed with up to a ½ in. bolt using (2) 4 in. X 4 in. X ¼ in. washers and (1) nut. Factory rubber and sleeve must stay in factory configuration and remain ½ in. thick. If you replace a spacer it may be replaced with a 1 in. hockey puck, that is it. Please refer to the core support space in the core support section.

### **Interior Bolt Ins**

Aftermarket components for controlling the car are allowed. However, no interior component including pedals, battery box, and steering column may strengthen the car in any way. Mounting of these components may not attach to, or be within 2 in. of the frame, crossmember, and/or firewall. Transmission coolers are allowed but again, cannot be mounted in a way that strengthens the car in any way. Fuel cells and batteries must be safely mounted (2 batteries max).

### **Front Frame**

All cars will be permitted (1) tilt point per rail and can be re-welded in the specific area only. No frame shaping permitted. You will be permitted to shorten the front frame rails to within 1 in. in front of the core support mount hole.

### **Center Frame**

No frame shaping permitted.

### **Rear Frame**

Trailer hitches and all after market braces must be removed. No frame shaping permitted. You may notch or dimple the rear frame (2 – places maximum) to aid the back in rolling.

### **Front Bumper**

Any factory OEM bumper or 8-gauge approved aftermarket bumper will be permitted. (Must be approved by DEMO) You will be permitted to seam weld the inner and outer skins together. You will be permitted to fill vent holes in with up to 1/8" steel. You will be permitted to hard nose

your bumper only and you must remove factory shocks/cups entirely. To hardnose your bumper you will be permitted to use up to (2) ¼ in. X 3 in. wide X 6 in. long plates. Plates must touch the bumper. No Chrysler pointies of any kind will be permitted.

Maximum bumper height will be 20 in. to the bottom of the bumper.

### **Rear Bumper**

Any factory OEM bumper or maximum 8-gauge approved aftermarket bumper will be permitted. (Must be approved directly by DEMO)

Mounting options below: (CHOOSE 1 ONLY)

Option # 1 – bumper cannot be hardnosed to frame. Run the factory shock and/or bracket that came on the make and model of car you are running. Bracket and shock must be in factory location but can be tilted. Nothing can be welded beyond 6 in. on frame measured from back of frame toward hump. Two additional straps can be added per mounting location. Measurement for strap is 2 in. wide, ¼ in. thick, and 4 in. long.

Option # 2 – remove factory brackets and/or shock and hardnose rear bumper to frame. A 4 in. wide, X 1/8 in. thick, X 8 in. long flat plate can be welded on any side of the frame. The 8 in. strap must connect to rear bumper. You can also add (2) additional 2 in. wide, X ¼ in. thick, X 4 in. long straps (These must touch the bumper also) Sheet metal can be moved to hardnose bumper but cannot be rewelded beyond rules stated in the trunk/tailgate section. Quarter panels cannot be shortened beyond what is necessary to mount bumper.

Minimum height from ground to bottom of bumper will be 15 in. Rear bumper must be OEM minimum 6 in. tall.

### **Front Suspension/Steering**

All suspension components must remain factory; with no modifications unless stated. Replacement parts must be OEM specifications. Tie rods must remain factory with no modifications. You can weld TOP A-arm's down in two spot's using 2"x2"x1/4" straps.

### **Rear Suspension**

Rear coils may be wired or chained with (1) double strand #9 wire or maximum 3/8 in. chain around the package tray. All cars must bounce and are not permitted to have solid suspension. Leaf springs cars must remain factory springs and clamps. Rear end mounting pad on leaf sprung cars can be a maximum length of 10 in. and must mount in factory configuration. The bottom plate can be a maximum of 10 in. also. Any rear end is permitted but it cannot be used to strengthen the car in any way. 98 and newer FOMOCO are permitted watts link conversions. Lower watts link conversion bracket will be permitted to be 6" by 6" by 1/4" thick and can be

welded or bolted in 4 places. The lower control arms have to factory ford lowers with following modifications only. You can cut and add or overlap 1 in. of the same thickness of material to make them to length. Absolutely no reinforcing of controlling arms or brackets will be permitted.

### **Wheels/Tires**

Any tire may be used besides the following: no beadlocks, foam filled, solid or paddle tires will be permitted.

### **Rust**

Must call on all rust repair besides what is mentioned here - Limited to a maximum of 10 in. x 10 in. factory sheet metal over the body mount holes.

### **Drivetrain**

Any car motor of choice is permitted. No chains on the frame or engine will be permitted.  $\frac{1}{2}$  max lower engine cradles with front plate and pulley protectors are permitted. Lower engine cradle is not permitted to be any further back than the motor mounts. Must use factory style rubber motor mounts. Aftermarket motor mounts are permitted but must be rubber mounts. Cross members must remain factory or a maximum 2 in. X 2 in. X  $\frac{1}{4}$  in. wall tube may be used. A maximum 2 in. X 6 in. X  $\frac{1}{4}$  in. plate may be used to mount the cross member.

Aftermarket shifters, steering columns, transmission coolers, aluminum bells, steel tail shafts and sliding drive shafts are permitted. No DP's will be permitted.

### **Fix-It Plates**

(4) fix-it plates, 4 in. X 6 in. X  $\frac{1}{4}$  in. will be permitted fresh.