

# Full size motor swap

## General rules/ car preparations

1. Any year car permitted except for the following no Chrysler imperials (full framers or subframes and no you can not put a imp sub under other Chrysler's products )  
hearse,limos will be permitted to run
2. Cars Must be complete stripped clean no trim interior or any other flammable materials must be removed prior to the show
3. All glass must be removed and swept clean
4. Original full tanks must be removed and placed in back seat area
5. All batteries must be moved in the drivers compartment ( 2 battery maximum)
6. Car must have a seat belt and working brakes at all times
7. You will have two times threw tech if on your second attempt you did not meet satisfaction to what the inspectors wanted you will be loaded and no refund will be issued ( as our job of inspections we will make sure it is clear and understandable of what we want done so there shouldn't be any questions or miss understanding)
8. **Drivers only in tech no one else is allowed ( we will give you a piece of paper with everything written down for you to take back with you to show your crew) must have paper with you for re tech**
9. All rules are to the interpretation to the officials ( if unsure of a rules call or text to get clarification so you understand what we want)
10. All judge's decision are final

## Frames

1. Frames must be 100 percent stock absolutely no welding anywhere will be permitted unless otherwise stated
2. Frames must remain factory length no shortening of front or rear
3. No seam welding even where factory missed
4. If car is pre ran you are allowed 4- 4x4" ¼" square plates (2 per rail)
5. No plates on fresh cars
6. No tilting cold bending or any kind of frame work
7. You may notch or dimple cars in one location in the rear
8. Sway bar must be 100% factory mounts
9. 03 and newer ford mercurys and lincoln's must run the factory aluminum cradle see engine mounting rules for motor details **(motor/trans rule number 5)**

## Bumpers

1. Any factory bumpers may be loaded and seam welded
2. smith metal works replica bumpers are allowed (expect replica pointy bumpers)
3. If you do not have either you will be allowed a 4x4 tube instead and must remain flat no fabricacation allowed
4. Bumpers may be welded on with a ⅜ bead of weld **if welding bumper on you must remove bumper shock completely and frame must remain factory length abuse this and you will not run)**

5. You will be allowed a 6x6 plate welded to end of the frame to make a flat welding surface must be between bumper and frame Bumpers must be welded to end of the frame and may not be slid over frame rails
6. If you decide to keep your shock you may collapse the shock and weld around the collapse part but no **welding shock to the frame it must be as factory intended**
7. No switching bumper shock mounts must be factory to the car you are running
8. Must run bracket in factory location no moving brackets

### **Body**

1. No body modifications must be stock( of course you must still strip it) unless otherwise stated
2. No changing of body mounts must remain factory zero modifications
3. Only the front two core support mounts may be changed to ¾ thread rod and can be ran threw the hood but will count as two of your tie down spots and can use no washers bigger than 3 inch
4. Driver door and driver door only may be welded solid, all other doors May be wired chained or welded one of the three if wired or chained 8 spots per door can not be wrapped around the frame. if welded May have 3-3x3 ⅛ in plates per door
5. Rear quarters must remain factory height
6. Trunks must remain factory and above rain channels may do a simple tuck but may not be attached to the floor in anyway may weld,wire,and chain trunk if welded must be done with 6 plates total 3x5x ¼ max if wired or chained may do 8 spots total sheet metal to sheet metal only
7. Hoods must have a minimum 12x12 hole in it for fires
8. Hoods may be secured one of the following may wire or chain in 6 spots total sheet metal to sheet metal may weld angle to hood and fender in 6 spots 2x2 angle max with one ⅜ bolt max with a standard ⅜ bolt but if using the threaded rod at the core support you eliminate two of the 6 spots noted above
9. No chain or wire may go to frame or bumper
10. You are allowed to crease your car but quarters must remain factory height no folding of the quarters over
11. You may have a front window bar 2x2 max or 3in wide plate can only be mounted 6 inches on roof firewall may not touch roll bar
12. In the rear window you may run 1 double strand of 9 wire from roof to speaker deck or may use ⅜ chain may only be bolted all links must be free floating

### **Cage**

1. A 4 point cage and halo bar is highly recommend but is optional
2. Cage can not be in the doors
3. your dash bar must be 5 in off the firewall and 5 in off the trans tunnel your rear seat bar may not be any farther back then where the rear kick panel meets the floor (where the front of the back seat would be located)
4. May have a center bar must be 5in off all parts of the floor sheet metal
5. NO DOWN BARS will be allowed no not even the ones that only weld to the sheet metal
6. Halo bars are allowed must be straight up and down and connect to rear seat or side bars it may not be connected to the roof

7. If your gas tank is not mounted to the floor you may build a gas tank holder coming off back seat bar but may not be attached and must have a gap between gas tank holder and sheet metal
8. You can have guessests in corners of the cage; you can not run bars from your halo to the gas tank protector.

### **suspension**

1. No aftermarket or modified spindles allowed must be a factory car spindle
2. No aftermarket hubs must be oem you may turn the factory rotor down only
3. No aftermarket ball joints oem only
4. No aftermarket or modified tie rods must remain factory
5. You may lock front suspension by welding a 2x2 ¼ strap to front side of a arm one plate per upper a arm only
6. Nothing can be welded from lower a arm to frame
7. Strut or spring spacers will be allowed
8. Steering column may be changed to an aftermarket
9. May run any factory appering 5 lug rear no axle savers or any type of brace may weld trailing on brackets to make fit in other models but must be done as factory attend ( example ford 9in in a crown vic)
10. pinion breaks allowed
11. All control arms must be stock
12. May length or shorten control arms but can only overlap 2 inches
13. If running a watts conversion must be done as factory intended upper mounts must be two pieces and bolt to package tray only no welding and must be 3 inches from frame rail under inside of hump lower bracket must be no bigger than 3x3x ¼
14. Coils may be wired to rear end only
15. Factory leaf springs only can not altair in anyway may use 6 aftermarket clamps (3 per side ) 3in long 2in wide and 5/16 bolt max
16. No coil to leaf conversions
17. You may set your rear height by chaining it down chains can not be welded and can only wrap around frame in one location on each side max ¾ chain
18. Nothing can be ran from frame rail to frame rail
19. No all thread shocks must be factory shocks
20. 03 and newer fords,mercurys,and lincolns must use the factory rack and pinion oem only no truck racks and no hydro steering
21. 03 and newer may run 80 ford spindles only all other suspension parts must remain the OEM part that come with the 03 and newer ford,mercury,lincolns. also must run the factory tie rods.
22. May run aftermarket steering column

### **Tires**

1. Any tire may be used must be no bigger than 16 inches
2. Must use a factory rim
3. No bead protectors no lip protectors no full centers
4. valve stem protectors are ok
5. You will be allowed a small multi lug center (7in)

## **motor/trans**

1. May run any motor and transmission combination
2. Lower cradles with front plates are allowed
3. Motor mounts must have some type rubber or poly bushing can be aftermarket
4. If not running a lower Cradle you will be allowed 4 motor chains  $\frac{3}{8}$  links two links may be welded to frame all other links are to be free floating
5. No distributor protectors transmission braces coil pack protectors no mid plates no protectors in general
6. 03 and newer Engine Mounting rule you may use a cradle like grey area or budde cradle or you can grab your own. Still must use a stock style rubber mount. The cradles are allowed to attach with one bolt through each aluminum tower, no other attachment points and must remain  $\frac{1}{2}$  inch off the side rail. Repair plates may not be used to tie cradles into the rails ( no smw or catskill 03 mounts in this class) call for any questions
7. Stock transmission cases only no aftermarket bells or tails oem only
8. Transmission cross members must be factory to car and mounted in factory location with a oem mount no chains allowed trans
9. Trans coolers are permitted but must be mounted in drivers compartment and must use appropriate lines ( hydraulic hoses are highly recommended)
10. You may run aftermarket shifter
11. Any metal fuel cells permitted or boat tanks if its a plastic tank it must be in some type of metal structure (we all have families that need us this rule is the most important and will be enforced no matter the outcome )
12. Sliders permitted
13. Headers will be allowed