



## **2012 BATTLE OF THE BADGES**

### **LAW ENFORCEMENT RACE**

#### **CAR REQUIREMENTS**

**(NO CHANGES FROM 2011)**

#### **CONCEPT AND DEFINITION:**

This event has been created to provide an opportunity for the law enforcement agencies to participate in a competitive racing event with a minimum of expense. The word "STOCK" will mean unaltered and as originally factory produced and installed for the year, make, and model. NO "PURE STOCK OR STREET STOCK" race cars.

#### **COMPETING MODELS:**

1992 until present Ford Crown Victoria or Mercury Grand Marquis to participate in this race. Engines and bodies must be matched make-to-make for year and model. All competing cars must have a factory wheel-base of no less than 95" and be no greater than 128".

#### **ENGINE:**

Stock 4.6 liter engine, only fuel injected, ODB engine controls working. NO STROKER ENGINES. Stock intake and exhaust manifolds only. No headers. High performance or aluminum intakes are not permitted. Marine-type intakes are not permitted. Must have a minimum of seventeen (17) inches of manifold vacuum @ 1000 rpm. Engine must be in stock location and position. Aftermarket exhaust pipe/tail pipes are allowed, however they may NOT be over 2-1/2" diameter. Tailpipes may exit in front of rear tires. Car must run under mandatory track sound level of 95dba at 100 feet. OPTIONAL EQUIPMENT - engine fan, valve covers, air cleaner, radiator may be replaced with any aftermarket item. Replacement steel pulleys are ok as long as they are not aftermarket.

## **BODIES AND FRAMES:**

Must be complete and stock, including ALL Exteriorsheet metal. All doors must be welded with a minimum of 10" of weld per seam, or must be bolted shut with a minimum of a 1/8" x 4" flange plate (4 bolts) or chain the door shut with a minimum of 3/8" chain. Top to bottom of door bolted with 5/16" bolts on each side, every 3" apart. Must use fender washers on the inside. Frames must be completely stock. No alterations, bracing, welding, reinforcing, etc. May repair frame replace clip etc. but must do so as to not overbuild the repair, simple plating is allowed. May brace frame rails front and rear with simple round or square pipe connecting the L & R rail together. Must be within 10" of front and rear. X bracing or tying sub-frames together is not allowed. Quick release window net must be used. Spoilers, ground affects, decorations and themed cars are encouraged as long as the affects are adequately secured. Aftermarket nose and tailpieces are OK. Any added metal on body to repair holes or to cover head light/tail light openings must have a gauge no thicker than the stock body (18 gauge or less). Any holes in firewall must be covered with sheet metal, same with rear trunk area. Plastic front grills must be removed.

## **GLASS:**

WINDSHIELD MUST BE REMOVED and must be replaced with screen mesh (1/2" maximum opening) and have at least two center support bars. Removal of all glass and plastic is mandatory including headlight, taillights, and directional signal lights. ALL molding and trim must be removed - emblems, bumper trim, hubcaps, reflectors, anything that can be knocked off and litter speedway must be removed. Light bulbs and all mirrors must be removed. May have 1 rear view mirror in driver's area. Tech will remove if found to use it for blocking purposes. Side windows must be removed. Opening is to be taped with 3" duct tape.

## **WHEELS AND TIRES:**

Steel wheels-no wider than 8.0".Tires no wider than 8". 15-16-17" wheels maybe used, all 4 must be of same size, no snow, no off road, or mud tires allowed. No studs, no aluminum wheels, and no bead locks. Oversized studs and 1" lug nuts are recommended.Optional: radial tubes may be used.

## **RADIATOR:**

One only (1) radiator mounted in stock position. A simple 1-3/4" O.D. hoop may be built in front of the radiator for protection, not to extend above radiator or beyond the bumper. Must mount to frame or bumper with only 2 attachments. May replace stock radiator support with aftermarket steel, no more than 1" square hollow tubing may be used, must not be over built. SUBJECT TO INSPECTOR'S APPROVAL.

## **BATTERY:**

Battery may be moved inside the driver's compartment' however it must be securely fastened (strapped) in place and must be wrapped in rubber to prevent acid spillage. NO boat type plastic boxes. Only one battery allowed, any size is OK.

## **TRANSMISSION AND REAR END:**

Automatic only, no standard shift **MUST BE STOCK**. Flex plate must be steel. Transmission cooler may not be mounted in driver's area. Must be on other side of firewall. Rear ends must be stock and locking rear end is optional. Gear Changes are optional.

## **EXHAUST:**

Stock exhaust .Mufflers optional. (ref meeting many cars already removed bad converters. Too costly to reinstall)

## **SUSPENSION AND STEERING:**

All suspension components must remain stock. No cutting, welding or modifying of components is allowed. Must be in stock location. Stock tie rods, sleeves, ball joints, bushings, idler arm, pitman arm, center link and springs, must be stock. No heim joints or steel bushings. No jack bolts or adjustable spacers allowed. Sway bar if used must have stock type link, no all-thread and both sides must be equal length. Cars must have a minimum of 6" ground clearance from lowest part of frame rail. Ground clearance will be checked.

May replace stock steering shaft with aftermarket. No steering quickeners, removable steering wheel OK. Due to low cost and availability. Shocks must be mounted in stock locations.

## **BRAKES:**

Brakes must be stock. Must be standard equipment for year, make, and model. All brakes functional.

## **BUMPERS:**

NO reinforcement of bumpers is allowed, however they must be chained or cabled to avoid loss on the racetrack. Bumper chains/cables must be ¼" diameter minimum. Bumper ends shall be bolted to the body to prevent hooking bumpers with another car. Bumpers and front ends that are reinforced creating a "TANK" will not be allowed. Driver will have the change to modify or will not be able to race. This will be enforced by tech. No trailer hitches or push bumpers.

## **ROLL BARS:**

A roll bar is mandatory (NO galvanized pipe) and must be padded. Must be 1.5" x .120 or 1.75" x .095. Minimum 4-point cage is highly recommended. Must have support bars between door bars and front uprights/halo to strengthen roll bar in case of a roll over. It is mandatory to have a minimum of 3 door bars on driver's side for safety. May extend 1 bar from roll bar to each front frame rails as long as it does not connect to the radiator and fuel cell simple hoop. Roll bar may be braced from top of hoop 45 degrees to no farther than the rear frame rail. Unibodies must have a minimum 6" x 6" x ¼" plate on top and bottom of floor with a minimum of four (4) ½" bolts. May use larger plates or beams as long as frame rails are not tied together. Large 6" steel channel iron running length of side can substitute for door bars. Must be inside panels AND securely welded.

## **GAS TANK AND FUEL:**

A metal firewall must be installed between the trunk and passenger compartment. A racing style fuel cell is recommended and may be substituted for the stock tank. May NOT mount fuel cell lower than the top of the pumpkin. Fuel tanks must be securely strapped and secured to frame or unibody. **NO PLUMBERS TAPE.** Sheet metal must be added to trunk area to complete firewall between cell and passenger area/ground. Gasoline powered cars only. No fuel additives may be used. Fuel line if run through driver's compartment must be secured inside of conduit or similar type pipe. Fuel shut off is recommended. Pump gas no more than 93 octane is allowed. No racing fuels.

## **IDENTIFICATIONS:**

Car numbers must be on both sides and top of car in a **CONTRASTING COLOR**. Numbers are to be 18" high and 12" wide. For proper scoring numbers must be easily read from grandstands. Numbers must be **CLEAND & BOLD**. Driver's name is to appear on top, over door in 3" high letters. Car numbers will be assigned in the order that the entries are received. May use an "X" or letter of your choice if a car with the same number signs up first. Must be at least 8" tall.

## **SAFETY BELTS, SEAT, HELMETS AND DRIVERS SUIT:**

Five point safety racing belts are required. Properly mounted race seat is highly recommended. Helmets are mandatory. **NO Half helmets, NO motorcycle helmets.** ("M" Series helmets are NOT roll bar tested.) Closed face is recommended. Snell (SA) 2000 or newer is required. Passenger seat must follow same rules as driver's seat and must have minimum of 3 door bars on the passenger side of the roll bar. Passenger seats are allowed, however **NO passengers during race events.**

## **BALLAST:**

No ballast allowed. Fuel cells must not be larger than 25 gallons. Extra metal added to increase weight percentages is not allowed. Roll bars that are filled with any substance to increase rear weight will be disqualified.