

**B M Modified**

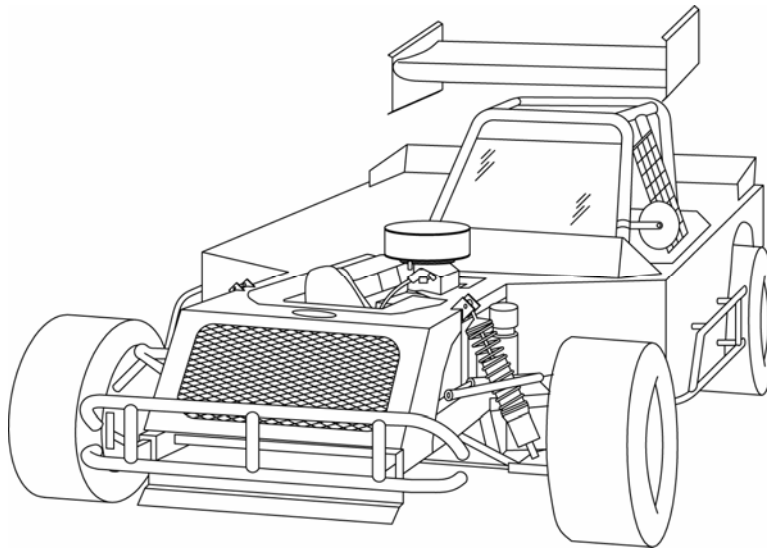
**Rules and Regulations  
2006**

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Forward

This document contains the regulations, specifications and procedures of BM Modified Racing Events as defined by the BM Modifieds Drivers and Owners Group. The information contained here is effective January 2006, and will remain in effect for one full year. Additions and deletions deemed necessary by the Group will be in an updated document released by the Group at the time.

Disclaimer

The rules and regulations presented are to establish an orderly conduct of events and the minimum acceptable requirements for these events. These rules will govern the BM Modified Racing Events. By participating in this series, all participants agree to comply with the conditions set forth by these rules.

Important Notice

The rules and/or regulations set forth herein do not express or imply warranty or safety from publication of, or compliance with these rules and/or regulations. The rules and/or regulations are intended to serve as a guide for the conduct of the sport and are in no way a guarantee against injury or death to participants, spectators, or others.

## I Introduction and General Regulations

### 100 Statement of Purpose

100.1 Rules Familiarity: All participants, owners and or drivers, pit crew, and others entering the pit area of the racing complex are required to be familiar with these regulations. Any additions, deletions, or instructions governing an event are also a part of rules familiarity. Participation by any individual in any capacity of the Event is bound by the rules, regulations and or any official supplementary instructions or rules.

100.2 Responsibilities: The primary responsibility for the safe condition and operation of any car entered into an Event rests with the Owner and or Driver. The Track Operator has the responsibility of providing a racing facility that is prudently maintained to acceptable know standards. The issue of safety is a shared responsibility between Participants, Event Director, and Track Operator.

100.3 Intent: The intent of this document is to promote uniformity of procedures and standards and to establish legal components for the Event participant. The rules and regulations are used to guide Event Officials. The Event Officials are authorized to decide if a change or design is an attempt to "Beat the Rules." An Event Official and or Representative will have the right to take corrective action to non-compliance within the Event Rules and Regulations or Hazardous conditions.

There is no claim to having a foolproof set of rules and regulations. There have been many attempts to test the rules by deviating from the purpose for which the basic sport is intended. These rules set forth will be the standard by which Events will be guided. Event Officials are authorized to determine if modifications are an attempt to "Break the Rules." The Event Officials can and will disqualify an entry that is in violation of the rules and regulations. The Event officials and or representatives shall also have the right to initiate action-correcting conditions that are not in compliance.

Within rules, regulations and specifications that are listed, any item not appearing or not mentioned does not imply nor guarantee legality and may be determined to be illegal.

### 101 Driver Requirements

101.1 Minors Release: A minors release for driving participants under the age of 18 must be signed by the minor and the minor's parent or legal guardian. A Birth Certificate or other certified legal documentation may be required for proof of age.

### 102 Drivers Rules

102.1 Conduct: All drivers should conduct themselves in an orderly manor. Physical abuse or physical violence toward any individual at the event site will subject the offender to immediate ejection from the event site and suspension.

102.2 Verbal Abuse: Verbal abuse toward any individual at the event site will subject the offender to immediate ejection from the event site and suspension.

102.3 Substance Abuse: All participants (owners, drivers, crew, and others) entering the Event site will be sober and not under the influence of any substances that might impair their ability to perform in a safe and orderly manor. It is the responsibility of the entrants to withdraw themselves from competition. If, in the judgment of the Event officials, an individual is under the influence of alcohol, illegal, or controlled substances during an Event, the individual(s) may be ejected from the site and or suspended.

102.4 Pit Crews: Drivers are responsible for members of their pit crews. Inappropriate actions by pit crewmembers may subject the driver to disqualification and or suspension. The crewmember will be subject to removal from the Event site and suspended from future events.

102.5 Restricted Areas: All participants in an Event will sign all Event related documents in order to participate. Failure to do so will result in disqualification and or suspension.

102.6 Drivers Meeting: The Drivers Meeting is mandatory! Special instructions, conditions, and regulations for the event may be established by officials at this time. Those not attending will give up their right to protest, face disqualification and or suspension.

### 103 General Racing Rules

103.1 Sportsmanlike Driving: The intent of sportsmanlike driving is to race on the track without touching, endangering equipment, or your fellow competitor. The reality of racing is that inadvertent contact will happen. However, if in the judgment of the officials, a participant is rubbing, crowding, blocking, chopping, or pushing other participants other than inadvertently, that participant will be subject to immediate disqualification and or suspension. At any time unsportsmanlike conduct is noticed whether on or off the track, the Offender will be subject to disqualification and or suspension.

Items 103.2 - 103.7 will be discussed in the Driver's Meetings.

103.2 Flag Rules:

103.3 Lapped Cars:

103.4 Starting Procedures:

103.5 Red Flag Restart:

103.6 Red Flag Adjustments or Work on Cars:

103.7 Yellow Flag Restarts:

### 104 Race Officials

104.1 Director: Will be the Official in complete charge of the events.

104.2 Flagman: Will be the Official in charge of flag signals to drivers.

104.3 Tech Inspector: Will be the Official in charge of pre and or post race inspections, in areas of rules, regulations, and safety compliance. The Technical Inspector and his Assistants will officially verify compliance or non-compliance and validate all results.

104.4 Scorer: Will be the Official in charge of timing, scoring and posting Official results.

104.5 Support Personnel: Other Officials may be appointed by the Event Director to supervise and assist in the operation of the Event. All Officials must report all rule violations to the appointed Event Director.

105 Protest Procedures: Protest fees and procedures to be defined at a later time by the Track Officials.

105.1 - The first time of a refusal to tear down for track inspection or protest will result in the car and or driver starting in the rear of its next Main Event and disqualification.

105.2 - The second time of a refusal to tear down for a Tech Inspection or protest will result in a one-race suspension for the car and driver and disqualification.

105.3 - The Third time of a refusal to tear down for a Tech Inspector or protest will result in a suspension until the car is pulled down for inspection and disqualification.

105.4 - Only car owners will be allowed to file a protest.

105.5 - If at anytime a car owner refuses a protest, tear down, he will lose all rights to protest himself, until his car is pulled down for inspection.

106 Appeal Procedures: All decisions of the Track Officials are final.

107 Suspension and Termination:

108 Miscellaneous:

109 Safety Equipment: It is HIGHLY RECOMMENDED that a participant use the following:

109.1 Head Gear: Full-face helmets designed for competitive motorsports use with a Minimum Snell Foundation 1995 specifications is mandatory. Helmet must be in good condition and is subject to Technical Inspection. Helmet must be secured with a strap. Failure to comply may result in disqualification or suspension.

109.2 Eye Protection: Eye protection is mandatory.

109.3 Neck Brace: Optional

109.4 Driver Apparel: A Proban or two layer Nomex made for racing driving suit with Nomex underwear is Highly Recommended.

109.5 Fire Extinguishers: A Halon System with coverage to the driver, engine, and fuel compartments is Highly Recommended.

109.6 Window Net: Window net and or arm restraints will be highly recommended.

109.7 Seat: Appropriately designed for competitive motorsports racing seat is required.

109.8 Pre Tech Inspection: All equipment (car, safety) is subject to reinspection at any time.

## II Division Rules

200 Chassis: It is required that an original BM Modified Chassis be purchased from Brown Motorsports with the appropriate identification number. Any modifications to BM Modified Chassis made after purchase is strictly prohibited. Any desired changes to the BM Modified Chassis must be brought before the Drivers and Owners Group and agreed upon by a consensus of active members.

200.1 Chassis Repairs: Repairs may be made to anyone the owner chooses. However, all repairs must be made back to original specs. All repairs must be made with mild steel. The main frame rails must be 1-1/2" x 3" square 0.120" wall thickness. The subframe (all areas above the main frame rails) must be 1-1/2" x 1-1/2" square tubing 0.083" wall thickness. The roll cage must be 1-1/2" round tubing 0.095" wall thickness. The windshield must be made of Lexan.

200.2 Body Work: Body repairs may be made to anyone the owner chooses, however, all repairs must be made back to original specs.

200.3 Bumpers and Nerf Bars: Front Bumper and Nerf Bars must be made at a maximum of 1-1/4" 0.095" round tubing. The rear bumper must be made of a maximum of 1-3/4" 0.095" round tubing. Both must be made to original specifications.

## 201 Engine:

201.1 The Stock OEM Ford 2300 4 Cylinder is the only accepted engine. The block can be bored to .060" over.

201.2 Prohibited Engines: No Turbo, Rotary, Cosworth, Multiple Carburetor, or Injection Engines Allowed.

201.3 Cylinder Head: Stock OEM head with a minimum thickness of 3.7 inches. No roller cams allowed. Only 1 cam is permitted (No Double Cams). Valves must be stock with maximum lift at valve 0.454" with zero lash. The valves must be stock diameter for the head being used. No more than two (2 only) valves per cylinder will be allowed. Three (3) angle valve job allowed with the inside cut a maximum of 70 degrees. Hydraulic cam and lifters only. (No Roller Cams) No double valve springs.

201.4 Spark Plugs: 1 (one) spark plug per cylinder.

201.5 Rods: Rods must 5.2" in length and stock appearing. Stock Ford, Crower, or Manley Rods permitted. Balancing permitted. (No Polishing allowed) No aluminum, titanium, "H-beam", lightweight, or billet rods will be allowed.

201.5.1 Rod Bolts: The use of aftermarket rod bolts will be permitted.

201.6 Pistons: Only flat top pistons with 0 (zero) deck height will be allowed.

201.7 Crank: A stock crankshaft only. No lightweight crankshafts allowed. No knife edging. Minimum crankshaft weight is 30 lbs.

201.8 Header: Racing Header allowed (no "Tri-Wye" headers)

201.9 Oil Pan: Stock type oil pan. Windage Tray permitted. Stock type baffles permitted.

201.10 Clutches and Fly Wheels: Stock Flywheel and clutch only. The Flywheel only may be lightened and balanced to sixteen (16) pounds

202 Carburetor: Any stock two barrel or only the Holley 500 #0-4412, 0-4412S or Holley 350 #0-7448.

203 Ignition:

203.1 Distributor: Any stock OEM Ford Distributor housing allowed. Any stock Ford ignition box allowed. No magnetos allowed.

203.2 Coil: Any stock OEM Ford coil.

204 Intake: Stock only. No aftermarket intakes allowed. There will be no polishing or grinding in the intake allowed. Deburring permitted. No fuel injector intakes allowed.

205 Wheels and Tires: Wheels will be steel with an 8" maximum width by 13" and all wheels must have a 4 inch offset. The tires will be Hoosier Sport 8 X 13.

206 Axles and Hubs: Stock Production

207 Steering: Stock Ford rack and pinion.

208 Brakes: Only stock disc brakes will be allowed on the front. Stock drum in the rear.

209 Driveline components: Drive Shaft: The drive shaft must be steel and painted white with a minimum diameter of 2.75".

210 Body Work: Specifications and measurements from Mfg.

211 Bumpers and Nerf Bars: Specifications and measurements may be picked up from the Mfg.

212 Rear End:

212.1 Stock Mustang

212.2 The rear end must be locked. (Welded or Magnetic steel spool)

212.3 The adapter plate for the Panhard Bar must be mounted to the rear end so that it is located on the back side of the rear end OEM shock bracket and parallel to the axle tube.

213 Shocks: Any steel bodied, non-adjustable, non-rebuildable shock permitted.

214 Springs: No rule on springs.

215 Front Suspension:

215.1 Upper Control Arm: AFCO # 20002S or 20003S Max. Length 9 3/4" center to center.

215.2 Lower Control Arm: AFCO #20013R-1 or #20014R-1 Max. Length 14 1/4" end to end. Control arm cannot be modified only repaired back to manufacture specifications. Lower A-Arm length 18 1/4" +/- 1/4"

215.3 Rod Ends: Only standard length rod ends shall be used. 1/2" rod ends maximum shank length 1 1/2". 5/8" rod ends maximum shank length 1 5/8". All rod ends shall be installed as per Mfg. Specifications. 1.5 times the diameter of the shank, i.e. 1/2" rod ends = 3/4" of thread.

216 Rear Suspension:

216.1 Lower A-Arm length: 19" +/-1/4"

216.2 Panhard bar length: 26 1/2" +/- 1/4"

216.3 Upper A-Arm length: 15 1/4" +/- 1/4"

217 Ride heights: The minimum allowed ride height is 3.5".

218 Final Drive Ratio: The maximum final drive ratio shall be 6.25.

III - General Tech Inspection and Procedures.

300 -- Purpose

300.1 - General: Technical specifications and procedures are intended to provide the orderly conduct of BM Modified Racing events with regard to reasonable safety and competitive equality.

300.2 - It is virtually impossible to establish procedures that can provide for every condition encountered in the sport of racing. In the case of rule interpretations, the primary consideration will be the intent and spirit of the written rule for the entry level racing of a BM Modified Racing Event. Establishing the spirit and intent of the written rule in the field is the responsibility of the Event official or their designee.

300.3 - Attitude: The attitudes of those individuals with the responsibility of handling the technical inspection should be to make the competitor aware of deficiencies that may pose a safety threat or rules infraction. Maintaining and establishing equality for all the event competitors and seeing to it that the rules and regulations are followed by all Event competitors are also a part of the attitude.

300.4 - Pre-Race Inspection: The purpose of pre-race inspections is to establish that all competitors have met safety requirements before entering the track. It is the responsibility of the Event competitor to present the car to the inspector, as it will be raced. If changes are made by the entrant after pre-race inspection and not brought to the attention of the inspector before the race before the race the inspection can and will be invalidated. The entrant can and will be subject to disqualification.

300.5 - Post-Race Inspection: It is the responsibility of the Event Competitor to proceed directly to the post-race inspection area including the scales or impound area following Qualifying or Heat Races, and Main Events. Once the entry or its components have entered the impound area for inspection they cannot be removed without the permission of the Official in Charge. The number of finishers to be inspected and the extent of the inspection will be at the discretion of the Event Official or his designee. It is required that once an entrant has entered the impound area the entrant (or appointed individual) remain with the entry until released by the official in charge. Failure to do so can result in disqualification.

### 301 -- Procedures

301.1 - Personal Safety Gear: The driver's personal safety gear and equipment should be ready for pre-race inspection.

301.2 - Workmanship: Suitable for competition, craftsmanship and appearance of a car will be considered for approval as an entrant in an Event. The decision of the Official in charge will be final.

301.3 - Entrant Responsibility: It is the responsibility of the Event competitor to ensure that the technical safety requirements are met. This includes but is not limited to safety wiring or other safety items listed in the technical manual.

301.4 - Any event competitor disqualified for illegal fuel and or oil will be subject to disciplinary action. This also includes the use of any potentially hazardous or prohibited substances anywhere on the car.

301.5 - Post-Race Tech: It is recommended that the post race inspection consist of weight check, fuel and engine check or any item chosen at the discretion of the Event Director.

301.6 - Refusal to Tech: Refusing to submit to technical inspection is considered as an admission of non-compliance to the rules and regulations of the Event. This non-compliance will result in disqualification and or suspension.

301.7 - Tech Tools: The Tech Inspector may use any Event approved tools necessary to carry out the tech procedures. (No-Go Gauges, Plugs, or Others)

301.8 - Tech Area: At the discretion of the official in charge, competitors and or their owners will be allowed in the tech area.

301.9 - Parts Identification: It is required that all parts submitted for inspection be tagged with the entrant's name and car number so that it will be returned to the rightful owner.

301.10 - Inspection Markings: The method of engine, tire, and or car marking is left up to the discretion of the Event Director and carried out by the officials in charge. Any method taken by a competitor to duplicate, counterfeit, or otherwise avoid the selected marking procedure is cause for immediate disqualification and possible suspension.

301.11 - Tire Requirements: The specified tires for use in the Events will be determined by the Event Director to be safe and economical. Any means to alter or remove code identification numbers is illegal and can result in disqualification.

301.12 - Weight: The minimum weight (1800 pounds total, 55% left side) is defined as the total weight of driver and car in as-raced condition observed on the official weighing device. At post race inspection the entrant may choose to add fuel or deduct one (1) pound per lap to meet weight requirements.

301.13 - Non-Structural Weights: Must be lead only. Weight in less than 3 pound increments is prohibited. Any weight added to meet minimum requirements must be securely bolted to the car. Bolts must be a minimum of 3/8" diameter. To secure weights over 5 pounds it is required that two (2) or more 3/8" bolts be used. All bolts must be secured by cotter key, nylock nuts, steel lock nuts, or double nutted. Weight located in areas other than within the frame rails (nerf bars, bumpers, etc.) is prohibited. Violations will result in corrective or disciplinary action.

302 - Fuel Checks: When at Anderson we will purchase the track fuel and follow their rules and regulations. When at other tracks, fuel use will be at the discretion of the Event Director. At no time will any type of fuel additive be allowed.

303 -- Ride heights - The minimum allowed ride height is 3.5".

## Appendix A - Final Drive Ratio Chart

### TRANSMISSION 1.8

2 <sup>nd</sup>	1.8 x 273 = 491	3 <sup>rd</sup>	1.26 x 373 = 469
	1.8 x 308 = 554		1.26 x 410 = 516
	1.8 x 327 = 588		1.26 x 456 = 574
	1.8 x 346 = 622		
	1.8 x 373 = 671		
	1.8 x 410 = 738		

### TRANSMISSION 1.97

2 <sup>nd</sup>	1.97 x 273 = 537	3 <sup>rd</sup>	1.37 x 346 = 474
	1.97 x 308 = 606		1.37 x 373 = 511
	1.97 x 327 = 644		1.37 x 410 = 561
	1.97 x 346 = 681		1.37 x 456 = 624
	1.97 x 373 = 734		

### TRANSMISSION 1.99

2 <sup>nd</sup>	1.99 x 273 = 543	3 <sup>rd</sup>	1.37 x 410 = 586
	1.99 x 308 = 612		1.37 x 456 = 624
	1.99 x 327 = 650		

### TRANSMISSION 2.14

2 <sup>nd</sup>	2.14 x 273 = 584	3 <sup>rd</sup>	1.43 x 410 = 586
	2.14 x 308 = 659		1.43 x 433 = 620
	2.14 x 327 = 699		

### TRANSMISSION 2.21

2 <sup>nd</sup>	2.21 x 273 = 603	3 <sup>rd</sup>	1.43 x 410 = 586
	2.21 x 308 = 680		1.43 x 433 = 620
			1.43 x 456 = 652

**Appendix B - BM Modified Parts List and Numbers**

Timing Belt	# 95014 Advance Auto Parts
Brake Master Cylinder (Albany)	# 20-4005
Brake Shoe (Rear)	74-78 # 090
Accelerator Cable	79-83 Six Cylinder # 04134
Clutch Cable	78 - 80 #14805
Plugs	#764
Fuel Pump	# 60328
Upper Ball Joint	# FA480
Lower Ball Joint	# 921
Upper Water Hose	# L140
Lower Water Hose	# S555
Water Pump Belt	27 ½" # 15275 Advance Auto Parts
Clutch Kit	NU 1177D
Transmission Input Seal	Timken 2503 NAPA 101093
GM Module	OR-100
Front Brake Pads	Pinto 75-79
Brake Caliper	Pinto 75-79
Front Brake Lines	Pinto 75-79
Header Gasket	FelPro - MS 92424
Intake Gasket	FelPro - MS 90266-1
Distributor	302491MA Advance Auto Parts
Cap and Rotor	KCR-240X Advance Auto Parts
Pilot Bearing	14657 Advance Auto Parts