

HILL VALLEY SPEEDWAY
2008
4 CYLINDER THUNDER RULES

REAR WHEEL DRIVE

NO FRONT WHEEL DRIVE, CONVERTIBLES, FOUR WHEEL DRIVE, SAAB, OR JEEP TYPE VEHICLES ALLOWED! MUST BE STOCK WHEEL BASE, MAXIMUM STOCK WHEEL BASE OF 105".

ROLL CAGE BRACING:

MINIMUM OF 1 1/2" OD-.095 WALL TUBING MUST BE USED. ROLL CAGE MUST BE WELDED SECURELY TO FRAME WITH A FOUR POINT DESIGN. UNI-BODY CARS ARE ALLOWED FRAMES BRACING BUT NO CROSS BRACING. ROLL CAGE MUST EXTEND FROM FRONT DOOR OPENING TO REAR OF THE FRONT DOOR OPENING. 2 BARS ARE ALLOWED TO BE WELDED TO PLATES (4"X4" 1/8" THICK) ON THE TRUNK FLOOR AREA BETWEEN THE REAR SEAT AND THE TAIL-LIGHT MOUNTING(INSIDE THE BODY). **NO CROSS BRACING ALLOWED AT ANY POINT BEHIND THE DRIVER!** FORWARD BARS ARE ALLOWED. **ONLY** TO THE BACK SIDE OF THE STRUT TOWER, ON VEHICLES EQUIPPED WITH STRUT TYPE SUSPENSIONS. ON CARS WITHOUT STRUT TYPE SUSPENSION, THE BARS MAY BE MOUNTED TO THE INNER FENDER ABOVE THE UPPER CONTROL ARM. VEHICLES IN THIS CLASS MAY NOT HAVE ANY FORM OF SUB FRAME (FRONT OR REAR) TIES INTO THE ROLL CAGE. ALL ENGINE COMPARTMENTS MUST BE FULLY ENCLOSED(I.E. COMPLETE INNER PANELS, WHEEL WELLS, AND RADITOR SUPPORTS) AS IT CAME FROM THE FACTORY. NO PART OF ROLL CAGE CAN GO IN FRONT OF RADIATOR SUPPORT. IF RUB RAILS ARE USED THEY MUST BE PLACED AGAINST THE BODY BETWEEN THE FRONT AND REAR FENDERS. ALL RUB RAILS ARE TO START AND END INSIDE THE BODY PANELS. RUB RAILS WILL NOT HAVE SHARP EDGES. REMOVABLE RAILS ARE PERMITTED AS LONG AS THEY BOLT TO THE ROLL CAGE ON THE INSIDE OF THE BODY. MAXIMUM DIAMETER IS 1". A MINIMUM OF THREE MAXIMUM OF FIVE, 3/8" REBAR TO RUN FROM TOP OF ROLL CAGE BAR TO DASH TIE IN BAR. NO SMALLER THAN 1" SQUARE WINDOW SCREEN ACROSS ENTIRE WINDSHIELD AREA.

BODIES:

NO SHEET METAL ALLOWED. CARS MUST BE STRICTLY STOCK. NO CUTTING, CHOPPING OR SHORTENING ALLOWED, EXCEPT CHOPPING OF INTERIOR DOOR PANEL FOR ROLL CAGE CLEARANCE. NO CUTTING, SHOPPING OR SHORTENING OF ROOFS. TRUNK & HOOD LIDS MAY ALSO BE STRIPPED. HOOD MUST BE KEPT IN PLACE BY SECURE QUICK RELEASE PINS. BODY METAL MUST BE IN PLACE AT START OF RACE. ALL GLASS AND LIGHTS MUST BE REMOVED. ALL DOORS MUST BE WELDED OR BOLTED SHUT. NO AFTER MARKET SPOILERS OF ANY KIND ARE ALLOWED. STOCK METAL ONLY. BUMPERS SHOULD BE TIED INTO BODY PANEL BY STEEL PLATES TO AVOID GETTING HOOKED AND TORNED OFF. NO FIBERGLASS BUMPERS ALLOWED. BOTH BUMPERS MUST HAVE A WAY TO BE HOOKED AND TOWED OFF TRACK EASILY(MUST BE EASILY SEEN AND ACCESSED). ALL BUMPERS MUST BE SECURELY FASTENED TO VEHICLE AND WELDED SOLID TO CHASSIS SO THAT IT WILL NOT BE KNOCKED OFF THE CAR ON IMPACT. **NO SHARP EDGES!** LOSS OF ANY BODY PART, INCLUDING BUMPER MUST LEAVE TRACK IMMEDIATELY. NO HOLES ALLOWED IN HOOD. ALL HOLES IN FRONT AND REAR FIREWALLS MUST BE COVERED. RAKED, MODIFIED ROOF LINES ARE SUBJECT TO REMOVAL OF UPPER AIR SHIELD UNMODIFIED ROOF LINES MAY USE UPPER AIR SHIELD. MUST MAINTAIN STOCK BODY LINES. RACING WEIGHT WILL BE 2350LBS.

INTERIORS:

REAR SEAT CUSHIONS MUST BE REMOVED. REAR SEAT SHELF MUST BE LEFT IN AS FIRE STOP. THE STOCK STEER UNALTERED FLOOR PAN, FIREWALLS., TRUNK, TRUNK FLOOR AND ALL WHEEL WELLS MUST BE RETAINED. SEAT MUST BE ALUMINUM RACING SEAT. BACK SEAT MUST BE TIED INTO ROLL CAGE. FIVE POINT SAFTEY HARENESS REQUIRED. NO BUILT UP INTERIORS OF ANY KIND. NO MIRRORS ALLOWED. ALL NON-FACTORY HOLES MUST BE FILLED IN WITH METAL. NO WINDSHIELDS ALLOWED. NO PLEXIGLAS ANYWHERE ON BODY. LEXAN MAY BE USED FOR VISORS, MAXIMUM OF 6" AND REAR SIDE WINDOWS.

SUSPENSION:

NO MODIFYING OF THE SUSPENSION. PARTS MUST REMAIN ABSOLUTLY STOCK FOR THAT MAKE AND MODEL CAR. ONLY RUBBER SPACERS ALLOWED. NO OTHER SPACERS(EXAMPLE: LUMBER,METAL CHAINS ETC.) MAY BE USED TO ALTER THE SUSPENSION OF THE CAR. CHANGING OF RIGHT FRONT TO HEAVIER SPRING IS ALLOWED. SAFTEY CHAIN ALLOWED ON RIGHT FRONT SPRING ONLY. NO RACING SUSPENSION OR SCREW ADJUSTABLE SPRINGS ALLOWED ON CAR ANYWHERE. NO CUTTING ANY SUSPENSION EXCEPT TOP OF STRUT TOWER. SHIFTING TOP STRUT IS ALLOWED AS LONG AS IT STAYS WITHIN ORIGINAL STRUT TOWER. CUTTING THE STRUT TOWER FOR ADJUSTMENT IS NOT ALLOWED.

TIRES AND WHEELS:

ALL WHEELS MUST BE REINFORCED TO PREVENT THEIR LOSS. TIRES MUST BE STOCK PASSENGER TIRES ONLY. NO RACING **DOT, TRUCK, STUDDER, RECAP, RACING, OR TRICK GUM BALL TIRES OF ANY KIND ALLOWED!** NO ALUMINUM, TRICK OR BEAD LOCK WHEELS ALLOWED. STEEL WHEELS MAXIMUM 8" ALLOWED. 3" RIM MINIMUM INSET OR REAR SPACING PERMITTED. 60 OR 70 SERIES TIRE WITH 14" MAXIMUM RIM DIAMETER. RACING WHEELS ALLOWED 8" TREAD WIDTH ON TIRES WITH A 1/2" TOLERANCE MEASURED FROM EDGE OF TIRE TREAD. TIRE GROOVING IS ALLOWED. MAXIMUM TIRE SIZE. 205-70-14.

ENGINE:

THE ENGINE MUST BE STRICTLY STOCK FOR THAT MAKE AND MODEL AND IN IT'S ORIGINAL MOUNT NO MOTOR MIX/MATCH. SOLID MOTOR MOUNT ALLOWED IN IT'S ORIGINAL MOUNT POSITION. ANY STOCK EXHAUST SYSTEM IS EXCEPTABLE, MUST BE MAXIMUM OF 12" IN FRONT OF TIRE. A SINGLE EXHAUST SYSTEM WILL RUN UNDER THE CAR, THROUGH A RACE MUFFLER & EXIT THE CAR IN FRONT OF THE RIGHT REAR OR LEFT REAR TIRE. THE EXHAUST WILL EXIT THE CAR IN A PIPE OF 2" INSIDE DIAMETER. THE EXHAUST SYSTEM MUST BE INTACTED ON ANY VEHICLE TAKING THE CHECKERED FLAG. EXHAUST MUST EXIT TO SIDE OF CAR NOT TO THE GROUND. NO SHAVING HEAD, PORTING, POLISHING, TURBOS, OR ENGINE CHANGING. REPLACEMENT CAMS MUST TRACK SPECIFICATIONS. ADJUSTABLE CAM PULLEYS ARE PERMITTED. UNDER DRIVE PULLEYS ARE PERMITTED TO RUN WATER PUMP. VALVE SIZES MUST REMAIN STOCK. STOCK TYPE PISTONS ONLY, NO AFTER MARKET PISTONS ALLOWED. NO POLISHING OR CUTTING AND BALANCING OF ROTATING ASSEMBLE.

MAXIMUM CAM LIFT-MINIMUM HEAD C.C.:**FORD**

2000 C.C. 480 48.2

2300 C.C. 480 54.8

GENERAL MOTORS

IRON DUKE: 151 480 48.82

BABY DUKE: 480 68.82

MITSUBISHI:

2600 C.C 480 50.2

IGNITION:

NO AFTER MARKET COMPONENTS OR MDS BOXES. MUST HAVE MASTER DIS-CONNECT SWITCH CLEARLY MARKED ON REAR DECK WITH ORANGE OR RED MARKING BEHIND DRIVER NEAR BATTERY.

DRIVE CHAIN:

STOCK REAR END , TRANMISSION, CLUTCH AND FLY WHEEL ONLY. STOCK DRIVE TRAIN ONLY. STOCK REAR HOUSING FOR MAKE AND MODEL OF CAR. REAR MAY HAVE SPIDER GEARS WELDED. NO SPOOLS OF ANY KIND ALLOWED. STOCK WEIGHT LIMIT OF 15LBS. MINIMUM IN MANUAL TRANSMISSION CARS. 1"X3" INSPECTION HOLE IN BOTTOM OF BELL HOUSING REQUIRED. TWO DRIVES SHAFTS MANDATORY AND MUST COMPLETELY ENCIRCLE THE DRIVESHAFT. LOOPS MUST BE NO MORE THAN 8" FROM REAR OF FRONT UNIVERSAL & 8" FROM FRONT OF REAR UNIVERSAL.

CARBURATORS:

FACTORY STOCK CARB ONLY. NO CUTTING EXCEPT CHOKE ASSEMBLY MAY BE REMOVED. NO CARB SPACERS.

NO FUEL INJECTION**FUEL CELL (GAS TANK):**

MAXIMUM 15 GALLON FUEL CELL. FUEL CELLS IN TRUNK MUST BE ENCLOSED WITH METAL. RACING FUEL IS ALLOWED. NO ALCOHOL OR ADDITIVES ARE ALLOWED. FUEL TESTING MAY BE DONE AT THE DISCRETION OF THE TRACK TECH. IF FUEL IS FOUND TO BE ILLEGAL YOU WILL LOSE PAYOUT & POINTS FOR THAT RACE. YOU WILL ALSO BE FINED \$25.00. ANY ELECTRIC FUEL PUMP WILL HAVE A SAFETY SWITCH AND A SAFETY OIL SWITCH. ANYONE RUNNING AN ALTERNATOR MUST HAVE A KILL SWITCH FOR ALTERNATOR. ALL SWITCHES MUST BE CLEARLY MARKED AND REACHABLE FROM DRIVER'S SEAT.

AIR CLEANERS:

ANY AIR CLEANER SYSTEM IS ALLOWED AS LONG AS IT'S NOT AIR INDUCTION. NO AIR INDUCTION, INCLUDING AUXILIARY PUMPS, FANS OR ICE PACKS.

BRAKES:

4 WHEEL BRAKES MUST BE IN GOOD WORKING ORDER AT ALL TIMES. STOCK BRAKE SYSTEM IN STOCK MOUNTING POSITION MUST BE USED FOR MAKE AND MODEL OF CAR BEING USED. NO AFTER MARKET IN-LINE PROPORTIONING VALVES ALLOWED.

SAFETY:

RACE SEATS ARE MANDATORY! ALL SEATS MUST BE MOUNTED ON ROLL CAGE LOCATED IN FRONT OF DOORPOST AND TO THE LEFT OF DRIVE SHAFT TUNNEL. SAFETY BELTS AND NECK BRACES ARE MANDATORY AND MUST BE MOUNTED TO ROLL CAGE. RACE APPROVED 5-POINT MINIMUM RACING BELTS IN GOOD CONDITION WITH ONE RELEASE FOR ALL BELTS REQUIRED. DRIVER SIDE WINDOW MUST HAVE A RACE APPROVED NYLON NET IN GOOD CONDITION. 12OZ ABC EXTINGUISHER MANDATORY AND EASILY ACCESSIBLE AND USEABLE BY DRIVER. **NOTE:**CHECK GENERAL RULES FOR HELMET SUIT AND NECK BRACE RULES.

MISCELLANEOUS:

BATTERY MAY BE MOVED INSIDE CAR AND ENCLOSED IN A METAL BOX SECURELY FASTENED IN A METAL FRAMEWORK TO THE CAR. NO BUNGEE STRAPS. ANY LOSS OF A WHEEL REQUIRES THAT YOU IMMEDIATELY LEAVE THE TRACK. RUPTURE OF GAS TANK AND OR LOSS OF GAS RECEIVE IMMEDIATE BLACK FLAG. ALL WEIGHTS MUST BE SECURELY BOLTED WITH LOCK NUTS, DOUBLE NUTS, OR NUTS WITH COTTER KEYS. WEIGHTS MUST BE PAINTED WHITE AND HAVE YOUR CAR NUMBER PAINTED ON THEM. NO HORNS OR TWO WAY RADIOS. ALL CARS MUST BE PRESENTABLE IN BODYWORK, CRAFTSMANSHIP AND PAINT. THE CAR NUMBERS MUST BE CLEARLY DISPLAYED ON THE ROOF AND BOTH SIDES OF THE DOORS AT ALL TIMES. NUMBER'S MUST BE NO LESS THAN 18" TALL AND 2" WIDE. IF A LETTER IS USED IT MUST BE 9"X2" MINIMUM. A PLATE WITH A MINIMUM 6" NUMBER WILL BE REQUIRED ON THE RIGHT HAND CORNER OF HEADLIGHT. LETTERING MUST BE LEGIBLE & OUTLINED.(IF SCORERS CAN'T READ YOUR NUMBER YOU WILL NOT BE SCORED).

ANYTHING NOT COVERED IN THESE RULES WILL BE LEFT TO THE DISCRETION OF TECH & TRACK OFFICIALS. WITHOUT RECOURSE FROM DRIVERS OR OWNERS. SAFETY INFRACTIONS CAN BE CAUSE FOR A CAR TO BE KEPT OUT OF COMPETITION UNTIL THEY HAVE BEEN CORRECTED. THE PRECEDING RULES ARE SUBJECT TO REVISION AND WILL BE JUDGED ACCORDINGLY. UNLESS THE RULES SAY YOU CAN DON'T!!!!