



2018 HERMISTON RACEWAY PARK

## **SUPER MINI STOCK** **RULES**

RULES INTERPRETATION:

### **IF IT DOESN'T SAY YOU CAN, YOU CAN'T**

ANY CAR OR EQUIPMENT THAT THE OFFICIALS, BOARD MEMBERS, AND DIRECTORS CONSIDERED EXOTIC OR NOT IN THE BEST INTEREST OF THE TRACK WILL BE CONSIDERED ILLEGAL FOR COMPETITION. IN THE INTEREST OF FAIRNESS, THE RULES MAY BE ADJUSTED TO CREATE A BALANCE OF COMPETITION.

IF NEEDED, FOR COMPETITION PURPOSES THE TRACK CAN MAKE A DECISION TO ADD WEIGHT TO ANY CAR PRIOR TO ENTERING A COMPETITION.

#### COMPETING MODELS:

- ANY CAR COMPETING IN THE MINI STOCK CLASS MUST HAVE SOME SORT OF A FRONT HOOP AND A SECURELY FASTENED FUEL CELL TO BE LEGAL FOR THE CLASS.
- COMPETITION WILL BE OPEN TO AMERICAN AND FOREIGN VEHICLES, 104" STOCK OR LESS ORIGINALLY AVAILABLE WITH A FOUR CYLINDER ENGINE. NO ALL WHEEL DRIVE OR FOUR-WHEEL STEERING.
- NO TURBO CHARGERS, SUPERCHARGERS, OR ROTARY ENGINES ALLOWED.
- NO CONVERTIBLES, ROADSTERS, OR AWD ALLOWED

#### WEIGHTS:

##### MINIMUM WEIGHT, INCLUDING DRIVER

- FRONT ENGINE, FRONT WHEEL DRIVE, REAR ENGINE CARS: 2000 LBS
- FRONT ENGINE, SOLID AXLE, REAR WHEEL DRIVE: 0-2359 CC MOTOR = 2150 LBS
- FRONT ENGINE, SOLID AXLE, REAR WHEEL DRIVE: 2360 CC - 2600 CC MOTOR = 2300 LBS
- SMALL ENGINE/ FUEL INJECTED CARS UNDER 1800 CC MUST WEIGHT 1800 LBS
- SMALL ENGINE/ FUEL INJECTED CARS OVER 1800 CC MUST WEIGHT 2050
- TRUCKS 2300LBS
- LEFT SIDE MAXIMUM WEIGHT, 56%
- CARS MUST WEIGH WHAT THERE CLAIMING BEFORE QUALIFYING AND THE A MAIN EVENT

\*\* HEAD TECH OFFICIAL OR TRACK OFFICIAL CAN AND WILL MAKE THE DECISION TO ADD WEIGHT OR LOWER LEFT SIDE PERCENTAGE IF DEEMED TO KEEP AN EVEN AND FAIR PLAYING FIELD.

#### ENGINES:

- ONLY STANDARD PRODUCTION FOUR CYLINDER ENGINES APPROVED BY THE TRACK AND HEAD TECH OFFICIAL PRIOR TO FIRST RACE. HONDA TO HONDA, CHEVY TO CHEVY, NISSAN TO NISSAN. IF YOU WANT TO RUN A DIFFERENT MAKE/ENGINE YOU MUST ISSUE YOUR REQUEST TO THE TRACK AND HEAD TECH OFFICIAL FOR APPROVAL.
- S2000 ENGINES NOT ALLOWED
- OEM BLOCKS ONLY. MODIFICATIONS ALLOWED
- INTERNAL PARTS MODIFICATIONS ALLOWED, AFTERMARKET ALLOWED
- MAXIMUM 2600 CC OVERALL DISPLACEMENT

#### CYLINDER HEADS:

- CYLINDER HEAD MUST BE OEM FOR MAKE OF CAR
- NO RACING HEADS ALLOWED (IE YATES, FORD MOTORSPORTS, CUSWORTH, ETC)
- NO AFTERMARKET HEADS OF ANY KIND
- NO 2.3 OR 2.5 ALUMINUM HEADS ALLOWED
- PORTING AND POLISHING ALLOWED ONLY ON TWO-THREE-VALVE PER CYLINDER HEADS ONLY
- NO PORTING OR POLISHING ALLOWED ON FOUR VALVE HEADS OR FUEL INJECTED ENGINES
- ANY AFTERMARKET OR OEM VALVE TRAIN COMPONENT ALLOWED. ( THIS INCLUDES FUEL INJECTED ENGINES AS WELL)

INTAKE MANIFOLDS: (INCLUDES FUEL INJECTED ENGINES AS WELL)

- INTAKE MAY HAVE MODIFICATIONS DONE TO IT.
- AFTERMARKET INTAKE ALLOWED
- MUST BE STOCK OR OEM OR AFTERMARKET REPLICATING STOCK

#### CARBURETORS:

- ANY SINGLE TWO BARREL CARBURETOR ALLOWED MUST E 4412 GAUGE LEGAL (1.375 VENTURI X 1.6876 THROTTLE BORE)
- CHOKE HORN MAYBE REMOVED
- AIR CLEANERS MANDATORY AT ALL TIMES
- AIR CLEANERS CANNOT PROTRUDE ABOVE HOOD
- MUST HAVE TWO THROTTLE RETURN SPRINGS
- AIR COOLED VW MAY USE ANY DUAL CARB SETUP 48 MM BORES

#### FUEL INJECTION:

- FUEL INJECTION MUST BE STOCK FOR YEAR, MAKE AND MODEL. MODIFICATIONS ALLOWED. OEM OR AFTERMARKET ECU ALLOWED, FUEL MAPPING, TIMING, DELETE SENSORS, ETC MAY BE MODIFIED
- ONLY SINGLE THROTTLE BODY ALLOWED ON FUEL INJECTED CARS/ AFTERMARKET THROTTLE BODY OK
- AFTERMARKET INJECTORS ALLOWED. 450CC MAXIMUM SIZE
- AFTERMARKET AIR BOX ALLOWED
- NO COMPLETE STANDALONE FUEL INJECTION SYSTEMS ALLOWED, MUST USE SOME STOCK COMPONENTS FOR YEAR, MAKE, AND MODEL.
- INSPECTION: WHEN TECHED, INJECTORS MUST BE REMOVED BY HE RACE TEAM AND WILL BE CONFISCATED BY TECH OFFICIAL. THEY WILL BE SENT TO A TETING FACILITY OF THE TECH DIRECTORS CHOICE. INJECTORS THAT TEST AT OR BELOW 450 CC THRESHOLD WILL BE RETURNED TO THE TEAM AT NO CHARGE. INJECTORS THAT TEST IN EXCESS OF 450 CC WILL BE DEEMED ILLEGAL AND NOT RETURNED.
- IN FAIRNESS OF COMPETITION HE TRACK MAY ADJUST MINIMUM WEIGHT ON SPECIFIC

#### ELECTRICAL SYSTEM:

- MUST HAVE WORKING STARTER AT ALL TIMES
- CRANK TRIGGERED IGNITIONS ALLOWED
- BATTERY MUST BE MOUNTED SECURELY IN APPROVED BATTERY BOX, SUBJECT TO TECH
- ALL BATTERIES MUST BE MOUNTED BEHIND DRIVER WITH EITHER BOLTED OR STRAPP STYLE WITH BOLT FLANGES TO FLOOR BOARD
- ALTERNATOR ALLOWED
- NO IN CAR ADJUSTABLE TIMING WITHIN REACH OF DRIVER
- NO MAGNETOS
- AFTERMARKET DISTRIBUTORS ALLOWED. MSD BOX ALLOWED

#### COOLING SYSTEMS:

- NO ANTIFREEZE OR ETHYLENE GLYCOL COOLANTS ALLOWED, WATER WETTER ALLOWED ONLY
- MUST HAVE SOMETHING FOR A CATCH CAN TO CATCH ANY OVERFLOWING FLUIDS

#### LUBRICATION:

- NO DRY SUMP SYSTEMS. EXTERNAL OIL PUMPS ALLOWED

#### EXHAUST:

- MUFFLERS ARE MANDATORY
- ANY EXHAUST SYSTEM MOUNTED THROUGH CAR MUST BE COVERED IN A CLEAN, SAFE MANNER AND IS SUBJECT TO TECH. EXHAUST MUST BE MOUNTED SOLID AND SHALL NOT PROTRUDE OUTSIDE OF BODY
- MAXIMUM NOISE LEVEL IS 95BDA AT 100 FEET

#### TRANSMISSION:

- OEM STANDARD FOR MAKE, ADAPTORS ALLOWED
- MUST HAVE WORKING FIRST AND REVERSE GEARS
- SCATTER SHIELD MANDATORY STEEL OR APPROVED BLANKET/BEL SUBJECT TO TECH
- STARTER MUST STAY IN STOCK LOCATION

## REAR WHEEL DRIVE: DRIVE SHAFTS

- ALUMINUM, OR STEEL DRIVE SHAFTS, NO CARBON FIBER
- MUST HAVE TWO STRAPS OR CHAINS FASTENED TO FLOOR OF VEHICLE TO KEEP DRIVE SHAFT FROM BECOMING DISLODGED
- FRONT LOOP IS MANDATORY
- MUST BE PAINTED WHITE

## FRAMES:

- ORIGINAL FRAME RAILS REQUIRED; NO LIGHTENING, MAY BE REINFORCED
- MAYBE FABRICATED AND HAVE TUBE FRAME FRONT AND BACK ( IN COMPLIANT OF THE RULE SEE BELOW)
- FOR FRONT FRAMES, YOU MAY CUT OEM FRAME OFF AT THE FIRE WALL NO PROTRUDING THROUGH THROUGH FIREWALL WITH FRAME RAIL MATERIAL
- FOR REAR FRAMES YOU MAY CUT OEM FRAME AT CENTER LINE OF REAR END NOT FURTHER FORWARD
- FIREWALL OF A MINIMUM OF 20-QUAGE STEEL IS REQUIRED BETWEEN THE DRIVERS COMPARTMENT AND THE FUEL CELL
- ORIGINAL FRONT FENDER WELLS AND STRUT TOWERS MAY BE REMOVED
- STOCK UNALTERED FIREWALL MUST REMAIN IN ORIGINAL LOCATION FROM FLOOR PAN PINCH RAIL AT BASE OF COWL. HOLES MAY BE CUT TO ALLOW ROLL CAGE TO PASS THROUGH, BUT MUST BE PATCHED ADEQUATLY
- SEVERELY RUSTED FLOORS MAYBE REPLACED USING STEEL OF LIKE THICKNESS TO PATCH THOSE AREAS ONLY
- NO FULL TUBE CHASSIS
- CONTACT HEAD TECH OFFICIAL IF YOU HAVE ANY QUESTIONS OR A FLOOR PAN THAT IS NOT CONFORMING TO THESE RULES IN ANY WAY . NON-CONFORMING FLOORS MUST BE AND SHOULD BE APPROVED PRIOR TO FINAL CONSTRUCTION

## SUSPENSION:

- COILOVERS ARE ALLOWED ONLY ON CARS THAT CAME FROM FACTORY WITH COIL OVERS
  - WEIGHT JACKS AND SCREW JACKS ALLOWED
  - SWAY BARS OPTIONAL; ONE PIECE SWAY BAR ONLY
  - SPINDLES CAN BE STOCK ,OEM OR AFTERMARKET REPLACEMENT CAST IRON SPICLES ONLY, AFTERMARKET CALIPER BRACKET OK, NO DROP SPINDLES
  - FRONT LOWER CONTROL ARM MUST BE STOCK OEM.
  - K MEMBER MUST STAY FACTORY WITH THE FACTORY COIL SPRING, NO COIL OVER SWAPS OR AFTERMARKET K MEMBER ALLOWED.
  - SHOCK OR STRUT MOUNTS MAYBE EXTENDED FOR TRAVEL BUT MAY NOT PROTRUDE THROUGH HOOD
  - NO 3RD LINK ALLOWED UNLESS PER MANUFACTURER, PANHARD BAR CAN BE ADJUSTABLE
  - WHEEL BASE MUST BE WITHIN 1"+/- OF STOCK
  - MINIMUM 3 1/2 IN RIDE HEIGHT FOR ALL BODY AND FRAME COMPONENTS, WILL BE CHECKED AT EVERY RACE WITHOUT DRIVER
  - ANY ALUMINUM OR STEEL SINGLE ADJUSTABLE SHOCKS OR STRUTS PER MANUFACTURER. REBUILDABLE SHOCKS/STRUTS ALLOWED. ONE SHOCK/STRUT PER WHEEL. NO CANISTER OR EXERNAL RESERVOIRS
  - BUMP STOPS ARE NOT ALLOWED
  - REAR UPPER CONTROL MUST BE IN STOCK LOCATION WITH STOCK MOUNT USED AND MAYBE VERTICALLY SLOTTED ONLY CAN BE AFTERMARKET TUBULAR FOR PINION ANGLE
  - LOWER REAR TRAILING ARM TO BE STOCK NO EXCEPTIONS
- ## REAR ENDS:

- NO ALUMINUM HOUSING OR AXLE TUBES
- NO QUICK CHANGE REAR ENDS
- NO TRACTION CONTROL
- ALL DIFFERENTIALS TO INCLUDE 9 IN. MUST BE EITHER OPEN, WELDED, OR SPOOLED NO LSD (WITH THE EXCEPTION OF ALL CARS THAT ARE LSD FROM FACTORY)
- FORD 9" REAR ENDS ALLOWED.

## STEERING:

- STEERING RACKS OR BOXS MUST BE STOCK OEM
- STEERING RACKS OR BOX'S MAY BE RELOCATED FOR OIL PAN CLEARANCE WITHIN REASON

## BODIES:

- ALL BODIES MUST HAVE COMPLETE BODIES, TRUNKS/DECK LIDS HOODS FENDERS ETC
- FRONT FENDERS CAN BE STEEL, ALUMINUM OR FIBREGLASS. FENDERS MAYBE HOMEMADE BUT MUST REMAIN STOCK APPEARING. NO EXOTIC MATERIALS
- DOOR PANELS MAYBE STEEL OR ALUMINUM BUT MUST BE STOCK APPEARING AND SECURELY FASTENED
- COMPLETE HOOD IS REQUIRED, MAYBE LIGHTENED, HOOD CAN BE STOCK, ALUMINUM, OR FIBREGLASS, NO EXOTIC MATERIALS
- FRONT HOOD MUST USE HOOD PINS REAR LIDS/TRUNK, IF OPERABLE MUST USE HOOD PINS
- SIDE SKIRTS ALLOWED. SIDE SKIRTS ARE BETWEEN THE FRONT AND REAR WHEELS. FRONT SPLITTERS ALLOWED. REAR SPOILERS ALLOWED; MUST BE SECURELY FASTENED TO BACK ONLY. NO FORWARD MOUNTED SPOILERS; NO AIR DAM STYLE MOUNTING THIS INCLUDES SIDES AND MIDDLE OF SPOILER.
- REAR SPOILERS CANNOT BE WIDER THAN THE WIDTH OF THE SURFACE AND CANNOT IMPAIR REAR VISION. NO DIRT-STYLE WINGS ALLOWED
- MAXIMUM HEIGHT AS MEASURED FROM DECK/MOUNTING POINT AT A RIGHT ANGLE TO THE TOP OF THE SPOILER WILL BE 6". THE MAXIMUM SPOILER MATERIAL IS 8". SINGLE PLANE ALUMINUM OR CLEAR POLYCARBONATE (NO PLEXIGLASS) OR REPLACEMENT IN STOCK CONFIGURATION FOR MAKE AND MODEL OF CAR
- SUNROOFS MUST BE REMOVED AND COVERED WITH A MINIMUM 20 GAUGE STEEL. NO ALUMINUM
- WHEELS AND TIRES MAY PROTRUDE FROM THE BODY 3 "
- NO CHANNELING AIR ON SIDE OF CAR OR ON TOP OF QUARTER PANELS

## BUMPERS:

- AFTERMARKET BUMPERS AND LATE MODEL NOSES ALLOWED
- NERF BARS ALLOWED MUST BE CLEAN AND FLUSH WITH BODY
- MAXIMUM 1.5" O.D TUBING OR 1"X 2" RECTANGULAR TUBING
- ENDS MUST BE PLUGGED AND SMOOTH- NO JAGGED OR ROUGH
- MUST NOT EXTEND PAST OUTER EDGES OF THE TIRES

## GLASS:

- WINDSHIELDS ARE MANDATORY- AND MUST BE MOUNTED IN STOCK LOCATION
- MIRRORS MUST BE MOUNTED WITHIN THE BODY LINES OF CAR
- QUARTER AND BACK WINDOWS MAY BE REPLACED WITH POLYCARBONATE
- NO SPEEDWAY STYLE OF WINDOWS , NO SIDE WINDOWS
- FOR LOOKS THE BACK SIDE WINDOWS MAY BE USED AND SMALL QUARTER WINDOW
- QUARTER WINDOWS ARE TO BE NO LARGER THAN 10"

## ROLL CAGES:

- FULL ROLL CAGE CONSTRUCTED OF MINIMUM OF 1.5" STEEL SEAMLESS TUBING MINIMUM .095 WALL THICKNESS
- MINIMUM THREE CRASH BARS ON DRIVERS SIDE, TWO ON PASSENGERS SIDE
- WINDSHIELD THREE BRACES MINIMUM
- CRASH BARS ARE TO BE PLATED AND GUSSETED PLATE IS TO BE .125 THICKNESS MINIMUM

## SEATS:

- ALUMINIUM RACING SEATS MANDATORY; NO HOMEMADE SEATS ALLOWED
- APPROVED HEADREST MANDATORY
- MUST BE SECURELY FASTENED TO ROLL CAGE WITH TWO BOLTS AT TOP AND FOUR BOLTS AT BOTTOM
- PADDED RIB PROTECTION AND SEAT LEG EXT ARE RECOMMENDED

## SAFETY BELTS:

- QUICK RELEASE LAP BELT NO LESS THAN THREE INCHES WIDE IS MANDATORY. BOTH ENDS OF THE BELT MUST BE FASTENED TO THE ROLL CAGE WITH HIGH QUALITY BOLTS MINIMUM .375" DIAMETER
- SHOULDER HARNESS NO LESS THAN THREE INCHES WIDE IS MANDATORY AND MUST BE MOUNTED FROM BEHIND DRIVERS SEAT. WHERE THE HARNESS CROSSED THE CAGE IT MUST PASS THRU A STEEL GUIDE WELDED TO THE CAGE THAT WILL PREVENT THE HARNESS FROM SLIDING SIDE TO SIDE. HARNESS INERTIA REELS ARE NOT ALLOWED
- CENTER CROTCH BELT AT LEAST TWO INCHES WIDE MUST BE SECURELY FASTENED
- ALL GROMMETS FOR BELT OPENING MUST BE INSTALLED
- ALL BELTS AND HARNESS MUST CONNECT A THE LAP BELT WITH AN APPROVED QUICK RELEASE BUCKLE
- BELTS AND WINDOW NETS MUST HAVE MANUFACTURER'S DATE OF NO MORE THAN 4 YEARS
- HELMET TO BE A MINIMUM SNELL 2000 OR SA-2000 MINIMUM

#### FUEL SYSTEMS:

- GASOLINE ONLY NO METHANOL OR EXOTIC FUELS OF ANY KIND
- FUEL CELL MANDATORY AND MUST BE MOUNTED IN THE TRUNK AREA IN A SAFE AND SECURE MANNER, AS CLOSE TO THE FIREWALL AS POSSIBLE, SUBJECT TO TECH
- ELECTRIC FUEL PUMPS ALLOWED. IF MOUNTED IN THE REAR PUMP MUST BE PROTECTED BY A SKID PLATE, OIL PRESSURE OVERRIDE RECOMMENDED, OIL PRESSURE SHUT OFF MANDATORY ON ELECTRIC FUEL PUMPS
- NO ALUMINIUM FUEL TANKS
- STEEL FIRE WALL OF NO LESS THAN 20 GAUGE STEEL MUST BE LOCATED BETWEEN THE FUEL CELL AND DRIVER
- IF FUEL LINE IS PASSED THRU CAR IT MUST BE RAN THRU STEEL CONDUIT
- NO GLASS OR PLASTIC FUEL FILTERS ALLOWED
- MUST HAVE A FUEL CELL TO COMPETE IN THE CLASS
- ALL CARS ARE MANDATORY TO HAVE A FUEL PUMP SHUT OFF SWITCH THAT IS IN CONJUNCTION WITH THE OIL PRESSURE GAUGE

#### BRAKES:

- ONLY ALLOWED ONE BRAKE BIAS IN CAR, NO OTHER INSIDE CAR ADJUSTMENTS

#### WHEELS/TIRES:

- MAXIMUM WHEEL WIDTH OF 8"
- ONE PIECE STEEL WHEELS ONLY
- WHEEL SPACERS ALLOWED MUST USE AFTERMARKET STUDS
- 8" HOOSIER/ AMERICAN RACER MINI STOCK TIRE