

Sandia Motor Speedway 2008 SLUG BUG RULES

It is the responsibility of each competitor to read, understand and comply with these rules. These rules are neither foolproof nor exhaustive. They are intended to provide fair and competitive racing for all who participate in this division. The **spirit and intent** of these rules is the standard that will be used for competition at Sandia Motor Speedway. Decisions will be based on common sense, consistency, impartiality, and fairness.

If these rules do not specifically say that you can add, change, or modify something, then you should consider that addition, change or modification illegal. Any driver found to be using illegal components will be considered to have been competing unfairly to that point in the season, and all accumulated points for the season may be forfeited. All entrants are required to comply with these rules.

No implied warranty or safety shall result from the publication of, amendments to, or compliance with these rules. The safety of each racecar and all equipment is the complete responsibility of the driver/owner, and the driver/owner acknowledges this responsibility by participating in any racing activity with Sandia Motor Speedway.

These Slug Bug division rules are in addition to those rules delineated in the SMS Oval Racing Rules for 2008 and other applicable rules and directives of SMS officials.

Specific Car Rules

The Slug Bug Division races are open to all eligible 1960 to 1978 Volkswagen Beetles or Super Beetles.

A. CAR BODIES

1. Cars must remain as produced in appearance.
2. Body must be complete. Fiberglass body parts may be used in lieu of stock steel body parts. I.E.: Hood, trunk, fenders, etc.
3. The interior of the car must have all flammable material (carpets, seats, plastic, rubber, etc.) completely removed.
4. All glass must be removed.
5. Headlights and taillights must be removed and neatly covered with sheet metal.
6. Trunk and hood must remain stock and be securely fastened with at least two hood pins at latch assembly. If hinges are removed then a minimum of four hood pins are required, one at each corner.
7. Doors must be securely fastened in the closed position. Passenger door may have a latch assembly to keep door securely closed during racing, and can be opened to gain entry.
8. A full size driver side window net is required. Window net will be mounted so that the release latch is at the top front of the window.

9. Front and rear firewalls and floor pan must be completely sealed with a minimum of 22 gauge steel.
10. Rearview mirror is not allowed inside of car. Outside mirrors are highly recommended on both sides of the car.
11. No part of the frame or body may be lower than 4" from the ground.
12. Any style of rear or front spoiler is allowed.
13. Front and rear bumpers may be retained or may be replaced with approved bumpers. Bumper straps are mandatory.
14. Lexan windshield minimum thickness of 1/8 inches is required. One metal strap located in middle of lexan run from top to bottom, 1 inch by 1/8 inch both inside and outside of lexan is required.
15. Rear window and rear side windows may be left open or may be covered with lexan. Lexan must meet minimum requirements, same as windshield. Option; Rear side windows may be covered with minimum of 22 gauge metal. Driver and passenger door windows must remain open.
16. Nerf bars are permitted but cannot extend out past the tires.
17. All cars must weigh a minimum of 1800 pounds. Maximum left side weight percentage will be 55.0% of the total car weight.
18. It is recommended that extra roll cage and driver protection be considered for reaching legal weight.
19. A detachable steering wheel is highly recommended.

B. ENGINE

1. All parts must be stock production parts with a maximum of 1600 cc.
2. No coating on any internal engine surface or components, including but not limited to ceramic or Teflon.
3. Internal polishing of the engine block is not permitted. Light deburring is permissible.
4. Stock rocker arms with heavy duty solid shafts and aftermarket valve adjusting screws are permissible with stock rocker arm ratio of 1.1 to 1.
5. Only flat top pistons allowed. Pistons may be cut for valve clearance and relief.
6. After market cam shafts allowed. No roller cams will be allowed. Aftermarket magnetic lifters, single valve springs, retainers and keepers are allowed. Titanium retainers are permissible.
7. Any aluminum, steel or magnetic type push rods are allowed.
8. Aftermarket oil sumps and oil pumps are allowed. If external oil cooler and filter are used, braided steel lines with AN fittings on cooler, oil filter and lines are required.
9. Stock rods and pistons must be used. These components may be machined and balance.
10. Windage trays and windage push rod tubes are allowed.
11. Power pulley is allowed.
12. Cylinder heads must be stock with stock intake and exhaust valves. Polishing and/or deburring of heads are not permitted. Three angle valve seat cutting is allowed. Flycutting of cylinder heads to increase compression is allowed.

13. Lightened Flywheels are allowed.
14. Counter balanced crankshafts are permitted.
15. OEM or stainless steel stock-sized valves are permitted.

C. CARBURETOR

1. One 1 barrel, one 2 barrel or two 1 barrel carburetors permitted.
2. No modifications of any kind are allowed to carburetors.
3. The carburetor choke assembly may be removed.

D. FUEL SYSTEM

1. Fuel tank must have at least two straps bolted to the top of the fuel tank to secure tank to body. The minimum acceptable material will be 1 inch by 1/8 inch flat steel. Safety fuel cells are highly recommended.
2. Electrical fuel pumps are not permitted. Fuel filter must be mounted inside the engine compartment. Glass filters are prohibited.
3. Fuel lines run through the driver's compartment must be enclosed from front firewall to rear firewall by electrical conduit and securely fastened to the floor pan.
4. Gasoline fuel only, with no additives.

E. ELECTRICAL SYSTEM

1. The self starter must be in working order and located in stock position. Engine must start under its own power before the race.
2. A kill switch is required on the dashboard within easy reach of the driver and safety personnel. Switch must be clearly marked "OFF" and "ON".
3. The battery must be enclosed in a steel or high impact plastic box and securely fastened behind the driver's seat.
4. Electronic ignition is allowed with stock coil or after market blue coil.
5. MSD boxes are not allowed.
6. Gutting the alternator/generator is permitted.
7. Aftermarket stock replacement distributions may be used. Counter weights may be removed and distributor shafts may be welded to eliminate timing advance.

F. EXHAUST SYSTEM

1. Exhaust system must be in place at all times and must be capable of maintaining a maximum of 95 dba at 50 feet under acceleration.

G. SUSPENSION & TRANSAXLE

1. Heavy duty shock absorbers may be used if they are similar to original equipment. Coil over shock is allowed if shock is same size as original equipment. Coil over shock must have 4 – notch spring adjustment only. NO performance fully

adjustable Coil over shocks allowed. Stock suspension must support weight of car.

2. Beam adjusters and drop spindles are allowed.
3. Adjustable rear spring plates are allowed.
4. Welding of spider gear in rear differential is allowed.
5. Changing gears in transmission is permitted.

H. BRAKES

1. Four wheel hydraulic brakes in working order are required.
2. No shut off valves on any brake line permitted.
3. OEM master cylinder and proportioning valve only.
4. Drum brakes only. Disc brakes are not permitted.

I. TIRES AND WHEELS

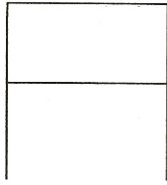
1. All wheels must be 15" steel rims. Maximum width 6".
2. D.O.T. rated full treaded passenger tires only. No slicks or racing tires permitted. Minimum height rating 195; maximum width rating 60.

J. ROLL CAGE

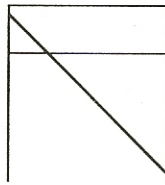
1. Cars must have a minimum of a four point roll cage. Cage tubing must be a minimum of 1 ¼ inch outside diameter, .080 wall tubing.
2. Two angled rear support tubes (kickers) required. Same as roll cage.
3. Halo must have a support centered from front to back. Support tube must be a minimum of 1 inch O.D., .080 minimum wall tubing.
4. One support tube must be connected between front roll cage main tubes over or under the steering column. Same as main roll cage.
5. One support tube must be connected between rear roll cage main tubes lower than top of seat. Same as main roll cage. Cross support bar is required.
6. Roll cage must have a minimum of three door bars on the driver's side and two door bars on the passenger side. Door bars must be a minimum of 1 inch O.D., .080 wall tubing.
7. The spaces between the driver's door bars will be covered with steel not less than 1/16 inch or more than 1/8 inch thick. These plates may be welded between the bars or a single large sheet may be welded outside the door bars. Plates will extend from the rear main roll bar to the front of the forward part of the seat from the top to the bottom of the door bars.
8. If the roll cage is bolted to the floor, a 4 inch by 6 inch plate must be bolted to the top and bottom of the floor pan to weld the cage to.
9. All welds must be professional quality and squares must be quassed.
10. All roll cage tubing in the driver's immediate area must be padded.

ILLUSTRATIONS:

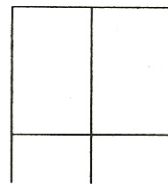
FRONT VIEW



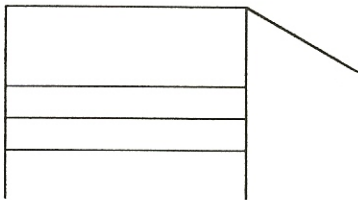
REAR VIEW



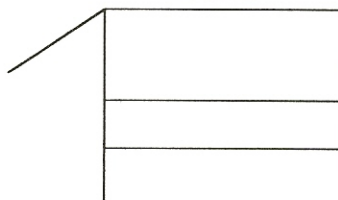
TOP VIEW



DRIVER SIDE
VIEW



PASSENGER SIDE
VIEW



K. DRIVER SAFETY REQUIREMENTS (ALL SAFETY EQUIPMENT MUST BE WORN AT ALL TIMES THE CAR IS ON THE TRACK).

1. Helmet is required and must be Snell SA95-M95 or newer. Full face shield recommended. If M style Helmet is used, a Nomex Head Sock is required.
2. S.F.I. approved full fire suit (one piece recommended), of a flame retardant material must be worn by all competitors. A two layer or a one layer with nomex underwear is required.
3. Fire retardant neck brace, gloves, shoes, and nomex socks are required.
4. Five point safety harness is required. Belts and harness must be 3 inches wide. It must include seat belt, sub belt, shoulder harness and sternum strap (sternum strap stitched to shoulder harness).
5. A professional, aluminum racing seat is required. No fiber glass, plastic or homemade seats are permitted.
6. All cars must carry at least a 2 pound fire extinguisher, securely mounted beyond the right side of the driver seat.

I. IDENTIFICATION AND MARKINGS

1. All cars and drivers must be registered before being allowed on the track to practice or race. Car numbers will be issued by the Slug Bug Association.
2. Numbers must be at least 16 inches high and neatly painted on both sides of the car, in the center of the door.
3. A number 24 inches high must be painted on the roof, reading from the passenger side.
4. Block type numbers 6 inches high must be attached to the left front headlight area and also to the right rear taillight area.
5. Decals are permissible in place of painted numbers