

**CLASS 9 "OUTLAW"**  
**OPEN WHEEL – 100" WHEEL BASE**  
**SINGLE AND TWO SEAT BUGGIES WITH A MAXIMUM WHEEL BASE OF 100"**  
**VEHICLE PARTS ARE BASED ON A TYPE 1 VW**

**GENERAL REGULATIONS**

Entrants in this class shall comply with all applicable general regulations

**COMPETITION REGULATIONS**

All parts called out for in this class shall remain in their stock shape, size, and configuration unless otherwise stated herein.

**SUSPENSION COMPONENTS**

Front and rear suspension components are limited to stock VW production type 1 parts unless otherwise stated herein. Suspension must retain stock concept and no other suspension types used with the stock suspension

**FRONT SUSPENSION**

Front suspension must be type 1 ball joint or link-pin. Stock front beam with stock shock towers must be used. Front axle torsion tube centers may be cut, rotated and rewelded to increase ground clearance. Original seams may be welded (not reinforced) on front beam. Torsion adjusters allowed. Any manufacturer's torsion leaves are allowed. Suspension limiters are allowed. Filling of speedometer hole in spindle is permitted. Spindle may be reinforced. Stock VW type 1 spindles may be modified to run a COMBO sized snout, Nothing bigger. Aftermarket 5/8" link pin spindles with combo snouts allowed. A single tube may be welded to the shock tower (Tower to Tower, Or chassis to Tower) as a reinforcement member. **Half tubes or plating may be used to reinforce beam.** Only VW ball joints may be used, no aftermarket ball joints allowed. Stock dimension VW ball joint or link pin trailing arms only.

**REAR SUSPENSION**

Rear suspension torsion bars may be of any origin. The torsion housing must remain stock dimensions, aftermarket housing is allowed. Any spring plates and spring plate grommets are allowed. Torsion adjusters are allowed. Spring plate retainers are allowed. Rear trailing arm may be any manufacturer but must retain original type 1 dimension, Material may be added to stock arms for reinforcement.

**Shock Absorbers and Bump Stops**

Only one shock per wheel is allowed. Outside diameter of shock may not be larger than 65mm. shock shafts may not have a diameter larger than .875". Front shocks must be mounted in the stock location. Rear shocks may be mounted in any location. Rear shocks may not have an extended length longer than 31.5". Shock reservoirs allowed. Shocks may be of any manufacturer. No air or coilover shocks allowed. No external bypass shocks. No electronically controlled shocks allowed.

## **Secondary Suspension**

No secondary suspension allowed.

## **Wheels and Tires**

Must use a 15" rim, **steel or aluminum**, 7" wide maximum with any standard offset. Any pneumatic tire and size allowed up to a 33" tall and 10" wide as mounted on 7" x 15" rim with 18lbs of air

## **STEERING AND BRAKE COMPONENTS**

### **Steering**

Steering box may be of any origin. Hydraulic or electric power steering is allowed. Any tie rod and tie rod end allowed

### **Brakes**

Disc brakes are allowed. Type 1, 2, 3, and 181 drums are allowed with any combination of brake shoes. Any combination of VW wheel cyl. Dual master cylinders allowed. Turning brake allowed. Aluminum center drums allowed. Steel spline center is allowed with the aluminum hub that attaches to a VW drum. Bolt-on replaceable bearing carriers allowed. Microstubs are not permitted.

## **ELECTRICAL SYSTEM**

### **Ignition**

Battery ignition only, no magnetos. Six or twelve volt systems may be used. Any distributor may be used. Any VW type alternator or generator in the stock location may be used. Electronic ignition allowed. No crank fired ignition.

## **FUEL SYSTEM**

### **Fuel**

Automotive 91 octane pump gas only. This means only fuel sold to the general public for use in domestic cars.

### **Fuel Tank**

Safety fuel cells are required. Fuel cell may not hold more than 22 gallons.

## **ENGINE, TRANSMISSION AND DRIVELINE**

This is an engine claimer class. This means that any finisher in the top five can claim the first place finisher's engine by putting up \$3500.00 in cash in the allotted protest time. The first place finisher must release rights to his engine to the claimer. The engine in this case will be the long block. Sheet metal, fan housing, carburetor, generator/alternator, distributor, intake manifold, exhaust, etc are not included in this rule. The protest time will be one hour after the last official finisher crosses the finish line. There must be a **MORE** official present at the time of the protest. **MORE** will take no responsibility for the condition of the engine; it will be bought as is. Failure to abide by claimer rule is grounds for disqualification and a ban from racing future **MORE** races for a period of one (1) year.

### **Engine and Engine Displacement**

Engine must utilize VW series type 1, 1600cc, U.S model sedan components and dimensions. The maximum allowable engine displacement is 1600cc

### **ENGINE CASE**

Any VW type 1, 2, 3 or "universal" case is allowed. The following modifications may be made to the stock case:

1. (A) The case may be line bored
2. (B) The case may be drilled and tapped for oil and temp sending units
3. (C) The case may be machined for crank pulley seal
4. (D) Case savers may be installed
5. (E) Cylinder seating surface may be machined
6. (F) Oil galleries may be enlarged to 10mm
7. (G) Threaded oil gallery plugs allowed
8. (H) Oil squirters allowed
9. (I) Case may be full flowed
10. (J) The case can have gussets welded on top

### **OIL PUMP**

Any oil pump is allowed. No deep sumps, dry sumps, or sump alterations.

Windage trays allowed. Any oil bypass piston and spring allowed. Full flow systems ok. No accusump systems allowed.

### **FUEL PUMP**

Electric fuel pump may be used. Stock fuel pump can be deleted.

## **PISTONS**

Pistons must be stock 3 ring only. Any piston and cyl as long as original stock dimensions are maintained. Any type wrist pin keepers. Piston assemblies may be balanced to the weight in grams of the lightest original non balanced piston, wrist pin, etc. total seal rings allowed.

## **CONNECTING RODS**

Any VW aftermarket connecting rod is allowed as long as the rods are stock VW length (5.393) and stock weight with a 500 gram minimum with one (1) rod untouched. No polishing or profiling of rods.

## **CRANKSHAFT**

Crankshaft must be stock VW or use a maximum 69.5mm offset counter-weighted crankshaft. Crankshaft may be balanced. Maximum journal size is limited to .030" undersize. No polishing or lightening. Any gear is allowed. Any engine bearing is allowed as long as stock dimensions are maintained. Pulley may be balanced. Sand seals ok. Any VW flywheel may be lightened and balanced. No aluminum flywheel. Any clutch disk and pressure plate but must retain stock VW diameter.

## **HEADS**

Heads must be U.S sedan stock single port or dual port or their equivalent. Heads may be fly cut for clean up. Minimum of 42 cc's in combustion chamber. No porting or polishing. Stock intake 34mm original equipment center section or its replacement. A 1" by 1.5" long by ½ inch tube may be welded 2 inches below the carb flange. A minimum of material may be removed from the end of the tube for clearance. A 1 5/8 X 2" long slip tube may be welded to the end of the runners for use of better hose connection. End castings must be original equipment VW, with the VW logo and part numbers. Balance slot may be welded closed. Vacuum hole may be plugged. A 34mm to 30mm carb adapter must be used. 8 to 1 is the maximum compression ratio.

## **CAMSHAFT, LIFTERS, VALVES, ROCKER ARMS**

Any camshaft, gear, single valve spring, steel valve spring retainers and lifters are allowed. Valve spring seat diameter in head must remain stock. Valves must be stock 45 degrees. One piece valve ok. Valve guide may be steel, bronze, or cast iron. No grinding or polishing in the port including valve guide. Must use stock 1600 rocker arms. The rocker arms may be resurfaced to permit use of swivel feet. No other grinding or changes may be made to the rocker arms. No roller or needle bearings will be allowed

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## FAN SHROUD

Stock or Aftermarket Shrouds permitted. No center mount or 911 shrouds.

## CARBURETOR

Stock VW carb 30 pict 1, 2, 3 or the solex h-30-pic replacement must be used. Maximum venturi size is 24.10mm. Velocity stacks may be used as long as they are not bonded to the carburetor. No internal modifications are allowed. This includes no removing of parts, no grinding, polishing, or filing. Intake manifolds must be stock one piece only. No chemical milling of manifold or carburetor. Choke housing may be removed. The stock float bowl vent may be plugged and relocated. Any air and main jet may be used. Vacuum advance port may be removed and plugged

## Transmission

Type 1 sedan 4-speed with reverse only. No more than four (4) forward speeds are allowed. Heavy duty side plates and differential allowed. Any internal modifications allowed. **Any gear ratio combinations allowed but only VW type gears (helical cut gears) may be used.** Must have a working reverse gear. Any shifter allowed. Axle cover tubes allowed. Any Manufacture Type 1, 2 or 181 stub axle is allowed. Any manufacture Type 1 or Type 2 C.V's and axles allowed. No micro stubs allowed.

## Fluid Coolers

Any oil cooler allowed with the location optional. Full flow systems are allowed. No deep sumps or dry sumps will be allowed

## GENERAL VEHICLE COMPONENTS Weight

Single seat= 1650 lbs.

Double seat = 1500 lbs.

## Chassis and Body

Maximum wheel base is 100" inches. Measured at ride height.