

2008  
Golden Spike Short Tracker &  
KRA 4 cylinder hobby stock class rules

Any 4 cylinder rear-wheel drive pony car. The following are considered pony cars.

**General Motors** - Monza, Vega, Chevette, Astro, Skyhawk, Starfire, Sunbird and 3<sup>rd</sup> Generation Camaro

**Ford/Mercury** - Bobcat, Capri, Mustang, Pinto.

**AMC** - Spirit.

### **Weight**

The minimum weight of all cars with driver after race will be 2500 lb.

### **Body**

**Body must remain stock. May be trimmed for roll cage only.** Dash may be removed. Trunk floor may be altered for fuel cell installation only. Front and rear firewall required. Remove all glass, combustibles and objects that do not pertain to main structure of race car. No opening in hood allowed. All doors are to be welded shut. Tinning for interior cock pit may be done. But must have inspection cover min. size 12"x 12". After market nose piece ok. 4" rear spoiler allowed. Motor must match body being used. Ford to Ford, GM to GM. Must have front and rear stock bumpers or equivalent, can be reinforced. Side rails allowed, must conform to body lines. **NO SHARP EDGES ANY PLACE ON CAR.**

### **Safety Equipment**

1) Approved fire suits are required when on the track. Must be in good condition and pass safety inspection. Gloves and neck collar highly recommended.

2) Full face Helmets required. Snell SA 2000 or 2005 only.

3) Racing type seat belt and harness required 3" lap and 2" shoulder belts. Minimum of 4-point safety belt system required. 5-point harness recommended. Harness up to 5 years old and in good condition. There is a DATE TAG on the belts and it must be in good enough condition to read or the belts are **NO GOOD** Period.

4) Roll Cages at least 6 point roll cage is required. Must be at least 1.5 inches outside diameter and .090 wall thickness steel tubing. Bars must form a cage around driver and reach as close to roof as possible. Top bar cage halo must be 2 inches above drivers head with helmet on and run from door post to door post. Must have X brace behind driver and at least 3 driver door bars or have steel plate on out side of drivers door and 2 door bars on passenger side. Cage must be welded, Or bolted to floor in 6 places with 3/16" plate 6" x 6". Roll cage must pass safety inspection. All cage repairs after crash must pass inspection before racing again.

5) Approved racing seat required.

6) Windshield area in front of driver must have screen or bars, Recommend both and full screen. Drivers side door window must have a working window net. Must open from the top front and go down.

7) ALL LEAD WEIGHT must be painted white and have car number clearly marked on it. Must be securely attached with 2 or more ½ inch bolts. Maximum 150 Pounds.

8) Car numbers required on both sides of car on doors and on roof in contrasting colors at least 18" inches high and 5" wide. Also 6" high numbers on the front and rear of car. The number must be legible and the scorers must be able to read all numbers or you will not be scored or paid.

### **Steering**

Stock Steering in stock location. Quick release steering recommended. No steering quickeners. No boxing in of steering column.

### **Wheels and Tires**

Any type steel wheel only, maximum 6" bead width, Stock after market rims ok. Larger stud bolts recommended and 1" safety lug nuts required. No bead locks or screws. 2" maximum backspacing requirement, from inside bead to the mounting surface. Reasonable grooving and siping allowed. Tires have to be P Rated DOT 13" or 14". No race tires, mud or bar grip style snow tires.

### **Suspension**

No aluminum parts. Suspension must remain stock. Upper strut mount may be altered to adjust caster and camber. No inter changing of frame cross members. Any steel spring that is stock appearing may be used but must fit in stock mounts and stock location. Stock type shocks and must be in stock factory mounting holes. One shock per wheel. No coil over shocks, weight jacks, tie rod ends or heim ends.

### **Sway Bar**

Must be stock configuration but may have adjustable linkage on outer ends only. No other weight transferring devices allowed.

### **Brakes**

Cars must have stock factory brakes on all four wheels and in good working order. One master cylinder. No restrictor. No in cockpit adjusters. No brake shut off on any wheel allowed. No lightening of any brake component, rotors, drums. Rotors must be stock diameter and thickness will be checked. Rear end must have brake shoes and all components and be in proper working order. All 4 wheels must slide in brake test.

### **Battery**

ONE 12 volt battery. Must be secured properly and held in the car with metal or in a

marine type container in such a way as to keep it from coming loose in a crash.

### **Radiator**

One radiator only. Mounted in front of engine in stock location.

### **Ignition**

Stock Distributors only. No aftermarket. No MSD. Coil must be stock type.

### **Drive Train**

Any pony car transmission allowed. All gears must work. No lightening of any kind. Car must have working clutch and all components must be stock and for engine used. Automatics must run stock converter. No ram couplers. Flywheel must be STOCK in all ways. No aluminum flywheels, pressure plates, or drive shafts. No cutting or lightening of flywheel PERIOD! Flywheel face may be resurfaced. Minimum thickness of flywheel will be (1) inch. A1.5 inch inspection hole shall be drilled in bell housing which must be accessible for the tech inspector to see clutch, flywheel, pressure plate, etc. Must have a scatter shield above bell housing that will deflect any clutch debris towards the ground. Drive shaft must be steel only and painted white with car number clearly marked on it. Must have safety hoop on front of drive shaft. Stock pony car rear end only. Locked rear ends OK. No 9" ford, quick change or floater type rear ends, No aluminum rear end parts. No torque sensor or traction devices allowed.

### **Engines**

Stock configuration in stock location. Ford 2000, 2300. GM 140, 151. Chrysler 2.2.

1) Bore & Stroke & Rod length shall be ( see chart below. ). Cylinders may be bored to a maximum of .060" over stock.

	Bore	Stroke	Rod Length
GM 151	4.000"	3.000"	6.000"
GM 140	3.500"	3.625"	5.700"
Ford 2000	3.571"	3.030"	5.000"
Ford 2300	3.781"	3.126"	5.200"
Chrysler 2.2	3.440"	3.620"	5.945"

2) 4 Flat-Top valve relief or dish pistons only. Pistons must be three ring, full skirted type, NO grinding or lightening. Floating wrist pins are allowed. Wrist pin height, Center of wrist pin to top of piston ( see chart below. ).

	Min.	Max.
GM 151	1.528"	1.560"
GM 140	1.480"	1.480"
Ford 2000	1.588"	1.588"
Ford 2300	1.578"	1.598"
Chrysler 2.2	1.572"	1.573"

3) Crankshaft and connecting rods must be stock and O.E.M. to block. No lightening, grinding or polishing of any type. No marine parts. No roller rods. No strokers. Balancing is allowed. O.E.M. stock steel rods only, No long rods. ARP Rod bolts & cap screws or direct OEM replacement rods are allowed.

4) Camshaft may be hydraulic performance type. No solid lifters, roller cam, roller follower, roller rockers. No dual camshaft.

5) No grinding, porting, polishing, acid treating of any kind is allowed on block, heads or intake manifolds. Must be O.E.M.. This includes no painting or coating of any kind on runners and no matching of gaskets. Heads may be milled on block mounting surface only. No turbo heads or intake manifolds or dual spark plug heads.

6) Water pump and pulley must be O.E.M. to block. No aluminum water pumps or water pump pulley on fords. No reverse cooling.

7) Valve diameter must be stock for engine. Valve seat cut, the lowest angle cannot extend more than .250" from the beginning of the 45 degree (valve seat). Intake and exhaust measurements must be.

	Intake	Exhaust
GM 151	1.720"	1.500"
GM 140	1.625"	1.375"
Ford 2000	1.653"	1.418"
Ford 2300	1.739"	1.500"
Chrysler 2.2	1.600"	1.390"

8) No dry sump oiling, no external oiling pump. Homemade or after market pans allowed. If you are using a block that does not have a fuel pump access on fords you must have a 1" inspection hole on side of oil pan and be easily accessible to inspector. If not you will remove pan for inspector.

### **Exhaust**

Cast iron manifold only. No headers. Must be stock. No grinding, polishing or cutting of any kind allowed. Must have an exhaust pipe that runs from the manifold to a point behind a line equal to the back of the drivers seat under car. Maximum diameter of pipe is 1-7/8 inch O.D.. Maximum of 4" is allowed from exhaust manifold to pipe for transition. Car cannot exceed 95 decibels at 100 feet.

### **Aspiration - Fuel**

1) Approved fuel cell is required.

2) Single 5200 series pony car carburetor with stock E.G.R. plate O.E.M. to engine, if used, must be bolted not welded to manifold. Choke plates may be removed. No milling or grinding of

choke tower, top of carburetor or intake manifold. Carburetor must be mounted with large bowl towards engine. No Weber 38mm or 6500 series carburetor or parts allowed.

3) Maximum of 1 ½ inches from top of intake to bottom of carburetor. You must use minimum thickness adapter to get carburetor mounted. Carburetor throttle plate and bore must be stock. Primary throttle bore 32.00 mm. Secondary throttle bore 36.00 mm. Primary venturi diameter 22.00 mm, secondary venturi diameter 27.00 mm for the Holley / Weber carburetor. One fuel line only connected to carburetor. No blowers or turbochargers allowed. Electronic fuel pumps allowed, but they must be wired into the oil pressure system to prevent them from pumping without oil pressure.

4) Fuel must be pump **gasoline only**. **NO** alcohol, nitrous, nitro, methane, E85 or nitrous devices allowed.

#### **Conduct:**

The driver is responsible for all Actions of his or her pit crew in all respects. The driver shall be the sole spokes person for his/her car owner and pit crew in any and all matters, and must talk with the head track official in charge regarding their conduct or behavior. Any participant directly involved with any fighting or misconduct will receive a penalty or fine or both. Also no participant shall subject any track official, employee, sponsor, or participant to any abusive or improper language or actions. **Also NO radios or other forms of communicating to the driver during the race are allowed. This includes hand gestures positive or negative.**

#### **Silent Protest:**

Only a driver competing in the feature can protest. Protestor must give race official \$150.00 cash before start of the feature and designate the car to be protested. The Teardown includes both top and bottom end. A driver can only protest one engine per race. No person shall prevent or interfere with the protest procedure. Only the TECH inspector has the final word on the legality of the race cars involved in the protest. If protested car is found legal, \$50.00 goes to race track and \$100.00 goes to protested car. If found illegal, \$50.00 goes to race track and \$100.00 goes back to protestor.

#### **Penalties**

Loss of all moneys and points for the night and one week suspension. All illegal parts will be confiscated by track. If all illegal parts are not given up driver will be fined X amount of money determined by track or suspended or both.

The Track Owner and or Promoter shall be empowered to permit minor deviation from any of the specifications herein or impose any further restrictions that, in their opinions, do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from such alteration of these specifications. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

