

- Commercially available gasolines that are reformulated with up to 10% ethanol are allowed in stock.

#### ENGINE

- No component of the engine may be altered, changed, reduced or enlarged from the engine manufacturer's original stock specifications, nor may any additional components be added to the engine. Blueprinting of engines is not allowed. No removal of material whatsoever will be allowed. This is to include polishing, port matching, deburring, glass or sand blasting surfaces or material removal for the purpose of engine balancing or other reasons.
- Maximum cylinder overbore for wear cannot exceed .020 inches (1/2mm).
- Replacement pistons must be stock OEM for the model.
- There will be no more than one cylinder base gasket to a cylinder. No changes in engine dimensions can be made by gasket adjustments.
- Spark plugs do not necessarily have to be OEM equipment in Stock classes.
- A maximum of one venturi per cylinder will be allowed in Stock classes. Any exception must be approved in writing by ISR.
- OEM carburetor slide valve and replacement jet components, without modification, are allowed in all classes. No modification to carburetor body will be allowed.

**NOTICE, effective 1 Jun 07: Allow changing fuel delivery characteristics by adding electronic fuel control device(s).**

- On snowmobiles equipped with electronic fuel injection, it is allowed to replace the non-adjustable fuel pressure regulator with any commercially available, mechanically adjustable fuel pressure regulator. (Unless OEM for the model, no electronically controlled fuel pressure regulators are allowed.) The regulator and mechanical adjustment device must be installed under the hood of the snowmobile and not be accessible to the driver while seated on the snowmobile.
- Airbox may not be modified. Air box may be removed. If removed, must be replaced with commercially available foam/paper/fabric air cleaners. Individual air cleaners should be used on each carburetor with suitable connecting adaptors if necessary. A redesigned ram air box is not allowed.
- No additional fuel pumps may be added to stock carbs.
- Oil injection pump must remain in place and remain functional. Lines may be removed and plugged. Oil injector nozzles may be removed and holes may be plugged. Premix gasoline may be used.

- Engine must retain OEM for the model cooling system.
- On liquid cooled snowmobiles, except for quick disconnects and flow directional valves, the cooling circuits cannot be modified or removed. Thermostats may be removed. When the snowmobile is on the course the cooling fluid must flow unobstructed throughout the entire cooling system (no short circuiting).
- OEM heat exchangers for the model located under the tunnel may be relocated any place on the top, side or under the tunnel and must remain functional.
- Harmonic balancer may not be removed.
- REEDS MAY BE CHANGED.*

#### DRIVE

- Any combination of springs, weights and ramps may be used in the clutches. There is no maximum clutch engagement RPM.
- NOT USED*
- NOT USED*
- NOT USED*
- Secondary clutch cams may be cut to any angle. Billet helixes allowed.
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- Drive belts do not necessarily have to be OEM equipment in Stock classes.
- Any drive chain and sprockets may be used.
- Track sprockets/drivers must remain OEM for the model.
- On 440cc Sno-cross race models, track drive sprockets may be changed to use a 2.52 inch pitch track. Sprockets must be OEM for the brand and of the same material and diameter ( $\pm 0.5$  inches) as the OEM sprockets for the model.

#### SKI SUSPENSION & STEERING

- Any steel or titanium suspension springs allowed. OEM for the model design concept must be maintained.
- Must maintain two (2) inches of remaining compression travel with driver on snowmobile.

#### SKIS & SKI RUNNERS

- Aftermarket skis allowed. Skis must be commercially available and marketed through normal sales activity. Minimum aftermarket ski length must be 40 inches.

- Ski width may not be trimmed. Skis may not be interchanged between brands. Replacement ski must be the same material as OEM ski for the model (i.e. plastic to plastic, steel to steel). Lower ski surface must remain OEM material.
- Skis may be reinforced but must remain in the original configuration. This reinforcing must be on the upper surface of the ski only.
- Ski runners may be removed or replaced. Bolt holes may be covered.

#### TRACK SUSPENSION

- The complete suspension must be used as furnished and filed by the manufacturer.

#### Track

- suspension may be located anywhere in the tunnel where the manufacturer has drilled, partially drilled or marked for mounting holes. Pre-drilled plates may be drilled out to facilitate suspension adjustment. Pre-drilled backing plate holes may not be enlarged or slotted.
- Any steel or titanium suspension springs allowed. Torsion springs (not coil springs) may be shortened at the long end to prevent contact with the track. OEM for the model design concept must be maintained.
  - Must maintain two (2) inches of remaining compression travel with driver on snowmobile.
  - Marginal snow wheels and related hardware may be added to or removed from slide rails. Structural integrity must be maintained.
  - Rear axle idler wheels must remain OEM for the model. OEM for the model rear idler wheels may be added to the rear axle.
  - Shocks must remain \_\_\_\_\_ in the OEM location. On rebuildable shocks, spacers may be added internally to limit rebound travel, but not compression travel.
  - No device may be added that stops the suspension from going thru its normal bottoming action.

#### TRACK & TRACTION

- A track manufacturer (who has three step distribution) may submit one track design with clip configurations to ISR Race Rules Committee for approval. Approval will be based on the track manufacturer's adherence to rib/lug height, track durometer, track weight and other factors.
- The track must be OEM for the year and model or one of the designated tracks listed below: CAMOPLAST: 9811R, 9812R, 9813R, 9814R, 9843R, 9844R, 9845R, 9846R, 9862R, 9902R, 9926R, 9927R, 9810R, 9861R, 9904R, 9929R, 9937R  
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