

# **OPEN MOD RULES**

## **OPEN MOD GENERAL SNOWMOBILE REQUIREMENTS**

1. Minimum combined weight is 250 lbs (without gas)
2. 800cc and 1000cc - maximum overall length 144 inches.
3. Race Director shall have the authority to determine structural integrity.
- 4. Tethers are MANDATORY**
- 5. Tek-Vests are MANDATORY**

## **ENGINE**

1. The engine is an engine manufactured for snowmobile use (this does not include outboard, motorcycle, aircraft or automotive engines, etc.). The Race Director will approve the validity of all engines. Watercraft crankcase and crankshaft from a snowmobile manufacturer may be used.
2. Cylinder maximum overbore is defined as 2 % over the cc displacement for the class. Heavy Modified 1000 maximum overbore is defined as 5 % over the cc displacement for the class.
3. Superchargers with 60mm intake restriction will be allowed, turbo charging not allowed unless otherwise specified.
4. Fuel injection allowed.
5. Exhaust not enclosed within the confines of the cowl must point rearward and downward and extend beyond front cross member/spindle centerline. Exhaust system cannot compromise/exceed overall snowmobile length and width.
6. Exhaust system must be functionally silenced.
7. Exhaust system must fit within overall maximum length and width rules.

## **DRIVE**

1. Modified 800cc classes and above must have a twin opposed piston caliper braking system with a minimum 3/16 (.015-inch tolerance) inch thick, 7.0-inch minimum diameter brake disc, mounted on the drive axle. Any manufactured brake disc may be milled or drilled in the original pad contact area (all pads inclusive). The disc pad contact area may not be reduced more than 15% of the original pad contact area.

## **SKI SUSPENSION AND STEERING**

1. Sled must have a minimum ride height of 3" measured at the lowest point of the bulkhead/skid plate and must retain 2" of remaining compression travel with driver on snowmobile.
2. Ski suspension must have at least one hydraulic shock absorber on each side.

## **TRACK SUSPENSION**

1. Must be a minimum of 2" of remaining compression travel with driver on snowmobile.

## **TRACK & TRACTION**

1. Any commercially available one-piece molded rubber track allowed. No cleated tracks allowed.
2. Track lug height may be trimmed to a minimum of ½ inch lug height. No other track trimming allowed.
3. Minimum track width is 13.5 inches.

## **FRAME & BODY**

1. Must have sheet metal the same thickness as the tunnel material permanently fastened to the top or bottom side of the upper tunnel surface. The sheet metal must be the same width as the tunnel and must extend from the rear of the tunnel to the horizontal centerline of the track drive axle. Tunnels 1/8-inch (.125) thick or thicker do not require this added sheet provided that the 1/8-inch (.125) tunnel extends to the horizontal centerline of the track drive axle.

2. A skid plate (belly pan) 3. A skid plate (belly pan) is required.

#### **IGNITION & ELECTRICAL**

1. Any ignition may be used. Electrical stutter boxes, launch control and traction control allowed.

2. External electric starters are legal.

#### **4 STROKE**

1. 4-stroke powered snowmobiles may incorporate a turbocharger with these restrictions:
  - a. A ¼ inch thick restrictor plate before the turbo fresh air intake is required. Maximum bore size 60 mm bore must be straight with no taper or chamfer.
  - b. OEM for the model engine cylinder head (internal modifications allowed).
  - c. Air to air intercooler only, no water injection.
  - d. Minimum combined weight of 625 lbs.
  - e. Identification tags and stampings on turbochargers must remain intact as purchased.