

KITTY CAT RULES

GENERAL KITTY CAT RULES

ENGINE

1. (FIII and F1) Any exhaust modification or replacement allowed. The exhaust system must be functionally silenced.
2. The following minimum standards for straight-thru silencers are required:
 - a. Inner pipe must have at least 15 holes per square inch. Minimum hole size 1/16 in. (Minimum 3/8 in. sound absorbing material around the entire circumference of inner pipe).
 - b. Inner pipe (perforated core) must contact sound absorbing material (fiber or steel wool packing).
 - c. Outer pipe must be at least 3/4 in. larger than inner pipe.
 - d. Minimum silencer length 3 in.
3. The exhaust emission pipe must not protrude more than 3 inches beyond the chassis or hood configuration. The exhaust pipe must exit downward and extend below the plane of the top of the tunnel.

DRIVE

1. Brake must be functional and operational at all times.

SKI SUSPENSION & STEERING

1. Rod ends (heim joints) may be used. 2. Spindle bushings may be replaced. Front-end geometry may not be changed.
3. An extension may be added to the left handlebar (see illustration). Maximum 3 inches wider, maximum 4 inches down. End must be capped.
4. Left side of handlebar may be straightened. Structural integrity must be maintained.

SKIS & SKI RUNNERS

1. Ski loops must be added. Minimum 1- inch diameter material. Loop must have minimum diameter of 3 inches. If metal, ski loop must be padded.

TRACK SUSPENSION

1. Seals may be removed from bearings in bogie wheels, rear idler wheels and/or rear idler sprockets.
2. Slide rail lubrication systems may be allowed in some classes depending upon local, state, and/or federal laws.
3. If slide rail lubrication is used, it must be non-toxic and biodegradable.

TRACK & TRACTION

1. The track studs may be no more than 3/8 inch above the highest point of the track.
2. (Grass Oval) No traction products allowed.

FRAME & BODY

1. The color orange is not allowed on the snowmobile in Oval racing.
2. Windshield and its molding may be removed.
3. Any separate front bumpers that extend away from the body must be padded.
4. Rear tunnel enclosure must be maintained.
5. Tunnel may be replaced with commercially available aluminum tunnel of OEM thickness (or greater) and dimensions or OEM steel tunnel.

IGNITION & ELECTRICAL

1. A tachometer may be installed.
2. Data acquisition and data acquisition systems allowed.
3. A taillight must be illuminated at all times while on the racing surface

STOCK KITTY CAT

1. This section covers the following classes:
Governor Stock Amateur Stock Stock Improved Stock
2. The snowmobile must have original OEM engine, hood, track, skis frame, cowl, gas tank, carburation, suspension and clutch supplied by the manufacturer for the particular model. Named components must be OEM for the model and year, or properly filed OEM replacement parts that supersede the original OEM parts. Factory options are not allowed.
3. In the event of obsolescence of OEM crankshafts, aftermarket replacement crankshafts must be approved and filed with ISR before allowed to be used.
4. In the event of obsolescence of recoil components or assemblies, Arctic Cat recoil #3002-493 may be used in its entirety.
5. In the event of obsolescence of Brake Band assemblies a vendor provided aftermarket assembly may be used. This component must be submitted to and reviewed by ISR prior to use.
6. Due to discontinuation of part number 3002-469 Arctic Cat cylinder head, replacement billet heads will be allowed. Any SMDG group vendor offering a cylinder head for use must submit a sample head to ISR for verification and this head will be held at ISR for verification and comparison.

ENGINE

1. No component of the engine may be altered, changed or enlarged from the engine manufacturer's original stock specifications nor may any additional components be added to the engine.
2. 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.
3. Governor assembly must be installed on the engine.
 - a. (Governor Stock) Governor must be fully operational.
 - b. (Amateur Stock, Stock, Improved Stock) Governor must be intact but does not have to be functional.
4. Replacement pistons must be stock OEM for the model. Piston must be installed in its OEM orientation.
5. Lower end crank pin may be welded to the counterweight to maintain crankshaft integrity.
6. OEM cylinder bore size must be maintained, no overbore allowed.
7. There will be no more than one cylinder base gasket to a cylinder. No changes in engine dimensions can be made by gasket adjustments. Gaskets (including the carb mounting gaskets) may be trimmed, but must remain OEM.
8. Spark plugs do not necessarily have to be OEM stock, but must be 1/2-inch reach.
9. No additional fuel pumps may be added to stock carburetors.
10. No carburetor changes allowed. No changes allowed to throat of carburetor or any other orifices.
11. Carburetor splash plate may be removed.
12. Jetting changes are allowed.
13. Filter material may be added to or removed from OEM air box. Air box (silencer) and/or its mounting gasket may be removed.
14. A 2.0 inlet valve may be used in the carb.
15. The carburetor insulator block may not be modified or trimmed except for elongating the stud mounting holes.

16. Exhaust must be OEM as produced for the model. The OEM exhaust system must be used in its entirety. No internal or external modifications allowed. No welding allowed, even for repair. Muffler components and/or silencing material must be intact at all times.

DRIVE

1. (Governor Stock) Stock drive clutch engagement must be maintained (2,000 RPM maximum clutch engagement).
2. OEM drive clutch with no modifications.
3. No belt drives allowed.
4. Chain guard must be in place.
5. Required sprockets for Stock classes:
 - a. Drive sprocket-11 tooth
 - b. Driven sprocket-42 tooth
6. Improved Stock sprockets
 - c. Gearing changes to the driven sprocket are allowed but the drive sprocket must remain OEM stock (11 teeth).

SKI SUSPENSION & STEERING

1. Front suspension must be OEM for the model unless otherwise noted.
2. Front suspension must remain in its stock location.
3. Ski widening devices and/or height adjustment devices are not allowed in Stock unless furnished as OEM and properly filed.
4. OEM, for the model, handlebar height must be maintained.

SKIS & SKI RUNNERS

1. Skis must remain OEM for the model and year.
2. Ski suspension components must be OEM.

TRACK SUSPENSION

1. The complete suspension must be used as furnished and filed by the manufacturer.
2. There will be no suspension options.
3. Slide rail lubrication systems not allowed.

TRACK & TRACTION

1. Any traction products allowed, but must meet Kitty Cat General Track and Traction rules.

FRAME & BODY

1. OEM hoods only.
 - a. Optional colored OEM hoods may be substituted for black hoods.
 - b. OEM hood may be painted any color except orange (in Oval and Snocross).
2. It is allowed to open OEM designated(molded in) vent slots on the hood.
3. Windshield may be trimmed.
4. Fuel tank may be raised within the confines of the OEM hood and frame configuration.
5. Air vent may be added to the fuel tank. Vent must be routed to prevent siphoning when snowmobile is tipped to either side.

IGNITION & ELECTRICAL

1. Headlight may be removed, but lighting coil must remain in place.
2. Spark plug cap does not have to be OEM.

HEAVY MOD KITTY CAT

GENERAL

1. Snowmobile must conform to Stock Kitty Cat class rules unless stated otherwise in this section.

DRIVE

1. Gear changes are allowed.
2. No belt drives

SKI SUSPENSION AND STEERING

1. Front suspension must be OEM stock.
2. Suspension must remain in its stock location.
3. OEM width and length must be maintained.
4. One 2-inch ski widener allowed per side.
5. Handlebar height may be raised a maximum of 2 inches. Structural integrity must be maintained.