

SAE CSC2004 SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to Lori Witting before you leave the registration area. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).* Please answer all questions accurately, as the responses you supply will be used to summarize your entry in the SAE CSC2004 Summary Technical Paper.

Team Name and Number: Colorado State University #4

Engine

Engine Cycle (2-stroke, 4-stroke, rotary) 2-stroke

Engine Displacement (cc) 600cc

Engine Manufacturer Arctic Cat

Engine Modifications Direct injection

Compression Ratio 6.5 : 1

Turbocharged? Supercharged? No

Engine Management System Orbital

Fuel Delivery (Carburetors, EFI, DI): DI

Emission Control

Air/Fuel Ratio Chosen (lean, stoich?) lean

Catalyst? Type? Oxidation

Secondary Air Injection? No

Exhaust Gas Recirculation? No

Other _____

Noise Control

Describe Strategy Sound resonance and diffusive silencer

Performance Maintenance

Describe Strategy Two-stroke engine almost stock power

Other Unique Features of Your Snowmobile

Describe Strategy Engine isolation

Special Measurements Needed for Acceleration Event

Inside Ski Stance 38 inches **Outside Ski Stance** 48 inches **Front Bumper Height** 17 inches