Team Name Clarkson Winter knights Team Number: 2
Engine
Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 4- Stroke
Engine Displacement (cc or electric motor size) Lico
Engine Manufacturer Suzuki
Engine Modifications
Compression Ratio 8:1
Turbocharged? Turbo
Engine Management System
Fuel Delivery (Carburetors, EFI, DI): EFL
Fuel Pump Pressure ?
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) [4:[
Catalyst? Type? 3-Stage Catalytic Converter
Secondary Air Injection?
Exhaust Gas Recirculation?
Other
Noise Control Muffler Design 2 Stage Buffle System
Noise Treatment Directed out turned at truck
Describe Strategy Stock coolant system wholey
panels to cool muffler,
Other Unique Features of Your Snowmobile Describe Strategy Track skirt to cat down on noise from
Supersion, track and snow crunch

Team Name UW - Madison	Team Number: O
Engine Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 4-5+50	Ke
Engine Displacement (cc or electric motor size) 750 cc	
Engine Manufacturer Neber 1 (Polaris FS)	
Engine Modifications	
Compression Ratio Q:\	
Turbocharged? Supercharged?	
Engine Management System_Bosch	
Fuel Delivery (Carburetors, EFI, DI): EFI	
Fuel Pump Pressure 42 psi	
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) 5toich	
Catalyst? Type? <u>dual-inline</u> platinum	
Secondary Air Injection?	
Exhaust Gas Recirculation?	
Other	
Noise Control Muffler Design 3 CHAMBER GULLOER - HOMEMAGE	
Noise Treatment FUAM INSULATION, SILENT TRACK, ATTEM	AUTHE AIR WEAKE
Describe Strategy USE STOCK COOLING CAPIATORS, OIL	Louish From
Mororotte	
Other Unique Features of Your Snowmobile Describe Strategy 2 catalysts to option the grant policy	ant reduction, Tunnel
stiffeners for manny sounds	

Team Name V Maine ("sledbear") Team Number: 04
Engine
Engine Cycle (2-stroke, 4-stroke, rotary, or electric)
Engine Displacement (cc or electric motor size) 660 C
Engine Manufacturer Arctic Cat
Engine Modifications Engine Management Micro Controller
Compression Ratio 12,04 Un teaded gasoline
Turbocharged? Supercharged? None
Engine Management System Micro controllir Basic Stomp Z
Fuel Delivery (Carburetors, EFI, DI): DFI
Fuel Pump Pressure Unsure, need varioucation possibly varies
7
Air/Fuel Ratio Chosen (lean, stoich?) Stoich 1417 11 gasoline
Catalyst? Type? Cataultic Converter,
Secondary Air Injection?
Exhaust Gas Recirculation? 100
Other
Noise Control Muffler Design Arctic (at 2003, Stock, chambered
Noise Treatment in Sulation, port hole reduction
Describe Strategy Stock, custom hood & Scoop
Other Unique Features of Your Snowmobile Describe Strategy —

Team I	Name Kettering Bulldags	Team Number: 5
Engine	2	
	Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 4	stroke
	Engine Displacement (cc or electric motor size) 749	
	Engine Manufacturer Weber	
	Engine Modifications larger injectors, modific	ed fuel rail
	Compression Ratio 9.0: 1	
	Turbocharged? Supercharged? Turbocharged	
	Engine Management System Bosch M7.4.4	
	Fuel Delivery (Carburetors, EFI, DI): EFT	· · · · · · · · · · · · · · · · · · ·
	Fuel Pump Pressure 60 psi + boost	
	on Control Air/Fuel Ratio Chosen (lean, stoich?) stoich	
	Catalyst? Type? 2 three way catalysts	
	Secondary Air Injection? no	
	Exhaust Gas Recirculation?no	
	Other	
Noise (Control Muffler Design Z Flow throw absorbtion m	afflers:
	Noise Treatment under tunnel sound coating,	under hood foam
Cooling	g Describe Strategy Our sled atilizes heat ex	changers in the tunnel
	along with a radiator to reduce cool	ent temperature
Other \	Unique Features of Your Snowmobile Describe Strategy We chose to implement	Ethanel (E-85) along
	with a new fuel system capable of 1	

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Team Name University of Wisconsin-Platteville Team Number: 7
Engine
Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 2- stroke
Engine Displacement (cc or electric motor size) 594.4 ec
Engine Manufacturer Rotax
Engine Modifications None
Compression Ratio 12.35;1
Turbocharged? Supercharged? No
Engine Management System SK1-doo 2-TEC
Fuel Delivery (Carburetors, EFI, DI): Semi-direct injection
Fuel Pump Pressure 58 ps;
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) Stock Cal. from 3KJoo
Catalyst? Type? Three - way Catalyst
Secondary Air Injection? <u>V</u> e5
Exhaust Gas Recirculation? No
Other None
Noise Control Muffler Design Redesigned automotive muffler with fiberglass packing Noise Treatment Sound absorption and damping material lining the nose pan and hoog
Describe Strategy Use a heat exchanger in front of the track and a radiator with
a fan in the nose pan.
Other Unique Features of Your Snowmabile Describe Strategy Removed rear suspension idler wheels to reduce tracka noise and use a Vespel chain tensioner to reduce transmission noise.

Team Name MSD X	Team Number:
Engine	Chalanda
Engine Cycle (2-stroke, 4-stroke, rotary, or electric)	Stroke cycle
Engine Displacement (cc or electric motor size) 499	CC
Engine Manufacturer Suzuki	
Engine Modifications Ignition, exhaust, Fuel	<i>j</i>
Compression Ratio 34:1	
Turbocharged? Supercharged?	
Engine Management System Mo Te C	
Fuel Delivery (Carburetors, EFI, DI): SDT	
Fuel Pump Pressure 90 psi	
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) Low RPM-Stoich	+ High RPM - lean
Catalyst? Type? <u>yes, two way cale</u>	Myst
Secondary Air Injection? ues	0
Exhaust Gas Recirculation? MO	
Other	
Noise Control Muffler Design OFM, Silencer	
Noise Treatment Moise dampening mate	erial
Cooling Describe Strategy 5+cck	
Other Unique Features of Your Snowmobile Describe Strategy Seat - rider forward Monitors exhaust gas temp.	Digatron-

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Team Name UNIVERSITY OF DAHO (SC Team Number: 9
Engine Engine Cycle (2-stroke, 4-stroke, rotary, or electric) Z - STROLE
Engine Displacement (cc or electric motor size)
Engine Manufacturer Polaris
Engine Modifications DIRECT INSECTION
Compression Ratio 6,5:1
Turbocharged? Supercharged? NA
Engine Management System Modified Modific
Fuel Delivery (Carburetors, EFI, DI):
Fuel Pump Pressure 35 ps;
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) Catalyst? Type? Yes VANAIJA 1300 WAVERON, UEIL
Secondary Air Injection?
Exhaust Gas Recirculation? / / > Other
Noise Control Muffler Design Stock (Neonflet)
Noise Treatment Hoon INSCLATION
Describe Strategy Sieck Liasio
Other Unique Features of Your Snowmobile Describe Strategy 1) 2 - STROKE BATTERY - LESS FLECT PAICAL

SYSTEM

Team Name UNA Sladcats	Team Number:_ 11
Engine	
Engine Cycle (2-stroke, 4-stroke, rotary, or electric) <u>4 - s</u>	stroke
Engine Displacement (cc or electric motor size) 599 cc	
Engine Manufacturer Honda	
Engine Modifications Re-genced tronsmission for	proper clutch speed.
Compression Ratio 12:1	
Turbocharged? Supercharged? No	
Engine Management System Stock Honda ECU	
Fuel Delivery (Carburetors, EFI, DI): EFI	
Fuel Pump Pressure 50 fs?	
-	
Emission Control	,
Air/Fuel Ratio Chosen (lean, stoich?) Honda Factor	
Catalyst? Type? Honda CBR600 F4; Call	arma Catalus.
Secondary Air Injection? Yes	
Exhaust Gas Recirculation? No	
Other	
Noise Control	
Muffler Design Honda CBR 600 RR Silence	
Noise Treatment Accumat sound matt une	for hood.
Cooling	
Describe Strategy Liquid Cooled, Front moun	ted radiator with
electic fan	
Other Unique Features of Your Snowmobile	
Describe Strategy	

Team Name University of Minnerota-Duluth Snowdogs Team Number: 13
Engine Engine Cycle (2-stroke, 4-stroke, rotary, or electric)
Engine Displacement (cc or electric motor size) 750cc
Engine Manufacturer Polaris (Weber)
Engine Modifications 5 to de
Compression Ratio 9.0.1
Turbocharged? Supercharged? turbs charged
Engine Management System Bosch (stock)
Fuel Delivery (Carburetors, EFI, DI): EFI
Fuel Pump Pressure 43-44 psi
·
Air/Fuel Ratio Chosen (lean, stoich?) 5 7 3 100
Catalyst? Type? 3 stage cat
Secondary Air Injection? YES
Exhaust Gas Recirculation? ^ 6
Other
Noise Control Muffler Design 3 stage w/ air injection
Noise Treatment subbor noise dampening skirt
Describe Strategy Stock cooling w/ extra vents added
Other Unique Features of Your Snowmobile Describe Strategy subber noise dampening shirt to reduce chassis and
exhaust noise

Team Name McCock Electric Snowmort Tomm Team Number: 31
Engine Engine Cycle (2-stroke, 4-stroke, rotary, or electric)
Engine Displacement (cc or electric motor size) \approx ? kw
Engine Manufacturer e Cycle
Engine Modifications
Compression Ratio
Turbocharged? Supercharged?
Engine Management System
Fuel Delivery (Carburetors, EFI, DI):
Fuel Pump Pressure
Emission Control Air/Fuel Ratio Chosen (lean, stoich?)
Catalyst? Type?
Secondary Air Injection?
Exhaust Gas Recirculation?
Other
Noise Control Muffler Design
Noise Treatment
Cooling Describe Strategy FANS & Radiator
Other Unique Features of Your Snowmobile Describe Strategy Clocker Moumoln (

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CSC 2006

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	ately, as the responses you supply will be used to summarize your entry in the SAE CSC2006 pary Technical Paper.
Team	Name Sing Siffalo Team Number:
Engin	Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 45/50/2
	Engine Displacement (cc or electric motor size)
	Engine Manufacturer Weber
	Engine Modifications Mone
	Compression Ratio 10.9:1
	Turbocharged? No Contract of the Contract of t
	Engine Management System Losh Motsonic
	Fuel Delivery (Carburetors, EFI, DI): EFI
	Fuel Pump Pressure 3 bus
Emissi	Catalyst? Type? 3 way LObi, Zol
	Secondary Air Injection? NO
	Exhaust Gas Recirculation? 10
	Other
	Muffler Design Motor cycle Moffler
	Noise Treatment & American Accoustical PDP, Mellaniun Metal,
Coolin	Describe Strategy Stock Plan's Edge Chas's System
Other	Unique Features of Your Snowmobile Describe Strategy integrate a different EFI System to a SNOW Mobile angine in a different chassis