

# Zd30 Engine Modifications

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*Engine Modifications and Exhaust Emission Control* Nov 03 2022

[Autocross Performance Handbook](#) Dec 12 2020 Autocross is open to just about anyone with a helmet and a car. Aimed at all those autocross drivers who race the cars they drive every day, this thorough and easy-to-follow handbook covers everything from choosing the best class and car for competing to tuning, modifying, and racing that car. Richard Newton, an ASE-certified Master Technician, talks in a reader-friendly fashion about what can be done, why it should be done, and what might need to be altered when conditions change. He discusses the rule book and driving techniques used in autocross events. Featuring helpful full-color illustrations, this guide covers all engine/drivetrain combinations, and focuses on car subsystems, including engine, suspension, wheels and tires, and brakes, among others. The book includes drawings of course set-ups, as well as a complete reference appendix.

**Methanol Fuel Modification for Highway Vehicle Use** Jun 25 2019

**Assessment of Wingtip Modifications to Increase the Fuel Efficiency of Air Force Aircraft** Jun 17

2021 The high cost of aviation fuel has resulted in increased attention by Congress and the Air Force on improving military aircraft fuel efficiency. One action considered is modification of the aircraft's wingtip by installing, for example, winglets to reduce drag. While common on commercial aircraft, such modifications have been less so on military aircraft. In an attempt to encourage greater Air Force use in this area, Congress, in H. Rept. 109-452, directed the Air Force to provide a report examining the feasibility of modifying its aircraft with winglets. To assist in this effort, the Air Force asked the NRC to evaluate its aircraft inventory and identify those aircraft that may be good candidates for winglet modifications. This reportâ€"which considers other wingtip modifications in addition to wingletsâ€"presents a review of wingtip modifications; an examination of previous analyses and experience with such modifications; and an assessment of wingtip modifications for various Air Force aircraft and potential investment strategies.

Everyday Modifications for Your MGB, GT and GTV8 Apr 27 2022 The books in the Everyday Modifications series from Crowood are designed to guide classic car owners through the workshop skills needed to make their cars easier to use and enjoy. MG expert Roger Parker gives his advice on maintaining and modifying MGB, GT and GTV8 cars, with some additional reference to the MGC and MG RV8 models. With safety information throughout, the book covers: regulations, insurance and market value for all models; routine maintenance; body and interior changes; brakes, suspension and steering; engine improvements for the original 1798cc B-series engine and other engine alternatives and finally, installing and updating electrical equipment and lighting. A practical and instructional new guide to classic car modifications and maintenance for MG enthusiasts, illustrated with over 350 colour photographs and case studies.

Military Procurement Authorizations for Fiscal Year 1968 Mar 15 2021

**Jeep Cherokee XJ Performance Upgrades** Jan 01 2020 The Jeep Cherokee XJ is a pioneering SUV that delivers commendable performance and off-road capability. More than 3 million Cherokee XJs were manufactured during its production run. However, when the XJs rolled off the production lines, they were built primarily for the street. As a result, XJs need crucial modifications and high-performance upgrades to make them better for off-road duty. In this updated edition, author and veteran Cherokee expert Eric Zappe guides you through each stage of an XJ build, so you can take the mild-mannered, bone-stock XJ and upgrade it to a capable off-road performer. Zappe delves into suspension bolt-on improvements, including lift kits to increase ground clearance and suspension travel. He also covers high-performance shocks and long-arm suspensions. Wheels and tires are your vital link to the terrain, and he reveals all the important considerations so you select the right combination. XJs need a heavy-duty steering system to negotiate challenging off-road conditions, and Zappe explains several ways to upgrade the steering. Driveline and axle upgrades are an important part of the performance equation, so these performance improvements are covered as well. But he doesn't stop there; he also explores engine performance improvements for the 2.5-, 2.8-, 4.0-liter engines so the Cherokee has more power for off-road performance. In addition, he covers some basic tips for body strengthening and adding skid plates. If you're ready to go off road with your Cherokee but you're not planning to build a top-dollar off-road machine, this is the book for you. With the techniques and latest products described in this book, you will be able to upgrade your XJ to much higher level of performance and your XJ will be at home off and on road.

Department of the Army Jun 05 2020

Everyday Modifications for your MGF and TF Jun 29 2022 The books in the Everyday Modifications series from Crowood are designed to guide classic car owners through the workshop skills needed to make their cars easier to use and enjoy. MG expert Roger Parker offers his advice on a range of modifications and changes that can be applied to the MGF and MG TF, which will enhance the practical daily use of the cars. With important and specific safety information and advice throughout, the book also covers: body and interior changes; brake, suspension and steering upgrades; wheel and tyre options; powertrain upgrades; electrical system upgrade options and finally, setting up and specific maintenance aspects. Illustrated with over 450 images, this is a valuable technical resource for the MGF and TF owner.

**How to Power Tune MGB 4-Cylinder Engines** Jan 31 2020 Build a powerful and reliable engine the first time - without wasting money on incompatible components or modifications that don't work. Burgess

covers the BMC/British Leyland B-series engine (except the early 3-bearing crankshaft unit) as fitted to the MGB and MGB GT. Provides advice on MGB/MGB GT suspension, brakes and dyno tuning.

*GM G-Body Performance Projects 1978-1987* Jan 13 2021 The General Motors G-Body is one of the manufacturer's most popular chassis, and includes cars such as Chevrolet Malibu, Chevrolet Monte Carlo and El Camino; the Buick Regal, the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more.

*Tuning and Modifying the Rover V8 Engine* Sep 20 2021 This is the ultimate book for any enthusiast or professional who is tuning or modifying the Rover V8 engine. This essential read covers all aspects of tuning this versatile and much-loved engine, with an emphasis on selecting the correct combination of parts for your vehicle and its intended use. Topics cover the short engine; cylinder head modifications and aftermarket cylinder heads; camshaft and valve-train; intake and exhaust systems; cooling system; carburetors and fuel injection; distributor and distributor-less ignition systems; engine management; LPG conversions and, finally, supercharging and turbo-charging. It is a valuable technical resource and practical car workshop manual for anyone interested in the legendary Rover V8 engine, and is fully illustrated with over 300 colour photographs and diagrams. Daniel and Nathan Lloyd run their own automotive tuning company, Lloyd Specialist Developments Ltd - specialising in tuning the Rover V8 engine.

**Fiscal Year 1976 and July-September 1976 Transition Period Authorization for Military Procurement, Research and Development, and Active Duty, Selected Reserve, and Civilian Personnel Strengths** Aug 08 2020

*Rover K Series Engine* Nov 30 2019 Getting a Rover K-Series engine properly up and running can be a difficult task, but the result is always worthwhile. *Rover K-Series Engine - Maintenance, Repair and Modification* is a practical guide to keeping these unique engines in fine working order. The most well-known issue with the K-Series is the head gasket, and this book identifies common faults, before giving practical advice on how best to solve them. Step-by-step guidance on long-term engine maintenance is provided, in addition to the improvements required to prevent further problems. A K-Series engine is stripped down to examine its clever and interesting structure, and is rebuilt with improvements. Authors of over twenty automotive books, Iain Ayre and Rob Hawkins have combined their knowledge to bring you this book on the Rover K-Series engine. Topics covered include the history of the K-Series; common faults and solutions; full strip down and rebuild; the Rover KV6; modifications for power and reliability; electronics and programming and comparisons with similar engine options.

**How to Build and Modify GM LS-Series Engines** Apr 15 2021 For gearheads who want to build or modify popular LS engines, *How to Build and Modify GM LS-Series Engines* provides the most detailed and extensive instructions ever offered for those modding LS engines through the Gen IV models. The LS1 engine shook the performance world when introduced in the 1997 Corvette. Today the LS9 version far eclipses even the mightiest big-blocks from the muscle car era, and it does so while meeting modern emissions requirements and delivering respectable fuel economy. Premier LS engine technician Joseph Potak addresses every question that might come up: Block selection and modifications Crankshaft and piston assemblies Cylinder heads, camshafts, and valvetrain Intake manifolds and fuel system Header selection Setting up ring and bearing clearances for specific uses Potak also guides readers through forced induction and nitrous oxide applications. In addition, the book is fully illustrated with color photography and detailed captions to further guide readers through the mods described, from initial steps to final assembly. Whatever the reader's performance goals, *How to Build and Modify GM LS-Series Engines* will guide readers through the necessary modifications and how to make them. It's the ultimate resource for building the ultimate LS-series engine! The Motorbooks Workshop series covers topics that engage and interest car and motorcycle enthusiasts. Written by subject-matter experts and illustrated with step-by-step and how-it's-done reference images, *Motorbooks Workshop* is the ultimate resource for how-to know-how.

**How to Build Performance Nissan Sport Compacts, 1991-2006 HP1541** Oct 29 2019 This is a comprehensive guide to modifying the 1991 – 2006 Nissan Sentra, NX, and 200sx and Infiniti G20 for street and racing performance. It includes sections on models and engines, engine theory, bolt-on performance components, cylinder heads and bottom end modifications, forced induction, engine swaps, brakes, suspension, wheels and tires, cosmetic and aerodynamics, and safety.

**How to Swap Ford Modular Engines into Mustangs, Torinos and More** Feb 23 2022 The Ford modular engine is a popular swap for 1964-1/2-1973 Mustangs, Fox-Body Mustangs, trucks, hot rods, and other muscle cars because these high-tech engines provide exceptional performance and improved economy compared to their dated counterparts. Found in Mustangs and other Fords since the 1990s, installing a modular motor in a classic Ford infuses new technology and all the benefits that come with it into a classic car. Modular engines feature an overhead cam design that has massive horsepower potential, and are offered in 4.6-, 5.0-, 5.2- 5.4-, and 5.8-liter iterations. These high-tech 2-, 3-, and 4-valve engines are readily available as a crate engine, from salvage yards, and in running cars. This engine design has a large physical footprint, and swapping the engine requires a thorough plan, using the proper tools and facilities. Author Dave Stribling specializes in modular engine swaps, and expertly guides you through each crucial step of the engine transplant process. Because of the large physical size, many components, such as brake boosters, steering rods and boxes, and other underhood components, may need repositioning or modification to co-exist in the engine bay. Stribling covers motor-mount selection and fabrication, suspension and chassis modifications, aftermarket suspension options, firewall and transmission tunnel modifications, engine management and wiring procedures, fuel systems, exhaust systems, electrical mods and upgrades, and much more. Many older Ford muscle and performance cars are prime candidates for a modular swap; however, shock towers protrude into the engine bay of these cars, so modifications are necessary to fit the engine into the car, which is also covered here. Swapping the engine and transmission into a muscle car or truck requires specialized processes, and this insightful, explanatory, and detailed instruction is found only in this book. If you are considering swapping one of these high-tech engines into a non-original chassis, this book is a vital component to the process. p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Arial}

**Building the Chevy LS Engine HP1559** Oct 02 2022 This is an engine rebuilding and modification guide that includes sections on history, engine specs, disassembly, cylinder block and bottom end reconditioning, cylinder heads and valvetrain reconditioning, balancing, step-by-step engine reassembly, torque values, and OEM part numbers for the popular Chevy LS series of engines.

**Tuning New Generation Engines for Power and Economy** Sep 08 2020

**Clean Air Act Reauthorization** Jul 07 2020

**Jeep Cherokee XJ Advanced Performance Modifications 1984-2001** Oct 22 2021 The Jeep Cherokee is one of the most prolific and rugged sport utility vehicles in history. Throngs of off-roading enthusiasts have chosen the Cherokee for navigating over the toughest terrain, climbing rocks, and trail driving, but these unibody 1984-2001 models have much room for improvement to become the best off-road vehicles. In *Jeep Cherokee XJ Advanced Performance Modifications: 1984–2001*, author Eric Zappe explains how to transform a stock Cherokee into the toughest and most capable off-road 4x4 SUV. The author details the buildup, right combination of parts and products, and modifications necessary to build an aggressive off-road rig. He also shows how to weld and gusset the frame in critical areas. Installing a three- and four-link suspension system is also profiled so the Cherokee delivers greater travel and better off-road handling. Suspension and frame modifications are necessary to run large wheels and tires. And these wheels and tires are essential for traction, performance, and ground clearance in extreme off-road situations. Swapping in Dana 44, Dana 60, and Ford 9-inch axles delivers superior performance and durability, which is covered as well. In addition, how to modify the Jeep inline 6-cylinder engine for increased displacement and performance is revealed. All of the most popular and effective mods, parts, and upgrades for a dedicated off-road Cherokee are covered. If you've been looking for the one guide to build the most capable off-road Cherokee, you've found it.

**Honda/Acura Performance** May 17 2021 The first in a series of books compiled by Sport Compact Car magazine, this authoritative handbook takes on the hot rod trend of import performance. This specialized guide includes the latest how-to advice on every facet of modifying Honda Civics and Accords and Acura Integra.

**How to Build Max-Performance Mitsubishi 4G63t Engines** Jul 19 2021 *How to Build Max-Performance Mitsubishi 4G63 Engines* covers every system and component of the engine, including the turbocharger system and engine management. More than just a collection of tips and tricks, however, this book includes a complete history of the engine and its evolution, an identification guide, and advice for

choosing engine components and other parts, including bolt-ons and transmission and drivetrain upgrades. Profiles of successful built-up engines show the reader examples of what works and helpful guidance for choosing the path of their own engine build.

*Optimising Car Performance Modifications* Jul 31 2022 *Optimising Car Performance Modifications* is a highly practical and useful book that covers brilliant techniques to the guesswork out of performance modification. Using just some low-cost tools, you can easily measure the flow restriction of your car's intake and exhaust. It's like having a huge flow-bench always available. By making some simple on-road measurements, you can plot the shape of the engine's power and torque curves - no dyno needed. This allows you to not only see if performance modifications to the engine are improving power, but also see where in the rev range those changes are occurring. Assess the worth of cams, a larger turbo, changed boost control or altered engine management mapping. But the book doesn't stop there - it also shows you how to measure your car's aerodynamics, seeing if at speed your car is developing lift or downforce. Want to make a rear wing work well? Test the angle at which downforce is greatest. You can also test the aerodynamic airflow through oil coolers, intercoolers and radiators. Interested in improving your suspension? By using a low-cost app and a smartphone, you can accurately measure suspension behaviour. If you want a practical, hands-on book that will immediately save you money, show where modifications are most needed, and can be used to assess performance outcomes, this is the book for you.

Engine Emission Control Technologies Dec 24 2021 This new volume covers the important issues related to environmental emissions from SI and CI engines as well as their formation and various pollution mitigation techniques. The book addresses aspects of improvements in engine modification, such as design modifications for enhanced performance, both with conventional fuels as well as with new and alternative fuels. It also explores some new combustion concepts that will help to pave the way for complying with new emission concepts. Alternative fuels are addressed in this volume to help mitigate harmful emissions, and alternative power sources for automobiles are also discussed briefly to cover the switch over from fueled engines to electrics, including battery-powered electric vehicles and fuel cells. The authors explain the different technologies available to date to overcome the limitations of conventional prime movers (fueled by both fossil fuels and alternative fuels). Topics examined include: - Engine modifications needed to limit harmful emissions - The use of engine after-treatment devices to contain emissions - The development of new combustion concepts - Adoption of alternative fuels in existing engines - Switching over to electrics-advantages and limitations - Specifications of highly marketed automobiles - Emission measurement methods

**Everyday Modifications for Your Triumph** Jan 25 2022 The books in the *Everyday Modifications* series are designed to guide classic car owners through the workshop skills needed to make their vehicles easier to use and enjoy. This book is concerned with improving the 4-cylinder Spitfire and Herald, and the 6-cylinder Vitesse and GT6, with engines ranging in size from 948cc to 1998cc. Classic car author and journalist Iain Ayre gives his hands-on advice on maintaining and modifying the Triumph Herald/Vitesse and Spitfire/GT6, covering both keeping them going and either subtly or dramatically improving them, with additional rescue options offered for Triumphs deemed economically terminal. The advice, based on decades of restoration and racing, covers improvements in power, handling, comfort and safety; period design faults isolated and remedied; electrics demystified, modernizing options discussed; six case studies; radical - as well as mild - modification options discussed. Superbly illustrated with over 250 colour photographs including rare period shots.

*Modern Engine Tuning* Nov 10 2020 First published in 1989 as *Tuning New Generation Engines*, this best-selling book has been fully updated to include the latest developments in four-stroke engine technology in the era of pollution controls, unleaded and low-lead petrol, and electronic management systems. It explains in non-technical language how modern engines can be modified for road and club competition use, with the emphasis on power and economy, and how electronic management systems and emission controls work.

**Big-Block Mopar Performance** May 29 2022 Hundreds of thousands of racing enthusiasts rely on this essential guide for building a race-winning, high performance big-block Mopar. Includes detailed sections on engine block preparation, blueprinting and assembly.

How to Hot Rod Small-Block Mopar Engines Nov 22 2021 *How to Hot Rod Small-Block Mopar Engines*

is a completely revised, updated edition of Larry Shepard's classic, first published in 1989. Inside you'll find the latest, updated information to help modify your small-block A series Mopar for high performance, street, circle track, or drag racing. Also included are updated parts information and techniques for: - Block, cranks, pistons and rods - Cylinder heads - Camshafts and valvetrain - Blueprinting techniques - Step-by-step engine assembly guide - Oil, cooling, ignition and induction systems - Engine swapping guide - Engine installation and break-in tips - Casting numbers and torque specs New part numbers, photos, parts combinations and illustrations highlight this classic handbook on how to build the ultimate small-block Mopar engine.

**Fuel alcohol** Jul 27 2019

*Single Cylinder Engine Tests* Feb 11 2021

**Four-Stroke Performance Tuning** Sep 28 2019 First published more than 30 years ago and in continuous print ever since, this remains one of the most comprehensive references available to the enthusiast engine tuner and race engine builder. Drawing on the author's many years of practical experience in tuning and modifying high-performance road, rally and race units, every aspect of an engine's operation is explained and analysed. Detailed modifications and improvements are suggested and described in the author's practical, down-to-earth style, making this book essential reading for anyone involved in building high-performance engines.

*Pounder's Marine Diesel Engines and Gas Turbines* May 05 2020 Since its first appearance in 1950, Pounder's Marine Diesel Engines has served seagoing engineers, students of the Certificates of Competency examinations and the marine engineering industry throughout the world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. Now in its ninth edition, Pounder's retains the directness of approach and attention to essential detail that characterized its predecessors. There are new chapters on monitoring control and HiMSEN engines as well as information on developments in electronic-controlled fuel injection. It is fully updated to cover new legislation including that on emissions and provides details on enhancing overall efficiency and cutting CO2 emissions. After experience as a seagoing engineer with the British India Steam Navigation Company, Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers. He subsequently edited *The Motor Ship* journal for eight years before becoming a freelance editor specializing in shipping, shipbuilding and marine engineering. He is currently technical editor of *Marine Propulsion and Auxiliary Machinery*, a contributing editor to *Speed at Sea*, *Shipping World* and *Shipbuilder* and a technical press consultant to Rolls-Royce Commercial Marine. \* Helps engineers to understand the latest changes to marine diesel engines \* Careful organisation of the new edition enables readers to access the information they require \* Brand new chapters focus on monitoring control systems and HiMSEN engines. \* Over 270 high quality, clearly labelled illustrations and figures to aid understanding and help engineers quickly identify what they need to know.

*Field Tests of In-service Modifications to Improve Performance of an Icebreaker Main Diesel Engine* Oct 10 2020 Field tests of in-service modifications to improve engine efficiency and lower the emissions were performed on the no. 3 main diesel engine of the USCGC Mackinaw (WAGB-83). This engine is a model 38D8-1/8 manufactured by Colt Industries, Fairbanks Morse Engine Division, and is rated for 2000 hp at 810 rpm. Baseline and modified engine tests were performed while the ship engaged in routine maneuvers of engine start, warm-up, docking, undocking and steady-steaming. The measurements performed included fuel consumption, smoke carbon monoxide (CO), carbon dioxide (CO2), oxides of nitrogen (NOx), total hydrocarbons (THC), oxygen (O2), engine speed and load, as well as important engine temperatures and pressures. The engine modifications were newer style pintle type fuel injector nozzles, shimmed injection pumps and advanced injection timing. These modifications decreased fuel consumption 1% to 3% depending on speed and load, reduced CO and THC up to 43% and 88% respectively and increased NOx up to 38%. Smoke emissions decreased 50% at low-load engine conditions and 5% at high-loads.

*Optimising Car Performance Modifications* Sep 01 2022 This highly practical and useful book covers brilliant techniques that take the guesswork out of performance modification. Using just some low-cost tools, you can easily measure the flow restriction of your car's intake and exhaust. It's like having a huge

flow-bench always available. By making some simple on-road measurements, you can plot the shape of the engine's power and torque curves – no dyno needed. This allows you to not only see if performance modifications to the engine are improving power, but also see where in the rev range those changes are occurring. Assess the worth of cams, a larger turbo, changed boost control or altered engine management mapping. But the book doesn't stop there – it also shows you how to measure your car's aerodynamics, seeing if at speed your car is developing lift or downforce. Want to make a rear wing work well? Test the angle at which downforce is greatest. You can also test the aerodynamic airflow through oil coolers, intercoolers and radiators. Interested in improving your suspension? By using a low-cost app and a smartphone, you can accurately measure suspension behaviour. If you want a practical, hands-on book that will immediately save you money, show where modifications are most needed, and can be used to assess performance outcomes, this is the book for you. The author is an enthusiastic hands-on modifier who performs all work on his cars himself in his home workshop. He has been testing car modifications on his own road cars for more than 25 years.

*Improving the Efficiency of Engines for Large Nonfighter Aircraft* Mar 03 2020 Because of the important national defense contribution of large, non-fighter aircraft, rapidly increasing fuel costs and increasing dependence on imported oil have triggered significant interest in increased aircraft engine efficiency by the U.S. Air Force. To help address this need, the Air Force asked the National Research Council (NRC) to examine and assess technical options for improving engine efficiency of all large non-fighter aircraft under Air Force command. This report presents a review of current Air Force fuel consumption patterns; an analysis of previous programs designed to replace aircraft engines; an examination of proposed engine modifications; an assessment of the potential impact of alternative fuels and engine science and technology programs, and an analysis of costs and funding requirements.

**Chevy LS1/LS6 Performance** Aug 27 2019 A complete performance guide for Chevrolet's newest generation LS1 small-block Chevy engine. Includes sections on bolt-ons, cylinder heads, intake manifolds, camshafts and valvetrain, fuel injection, block prep, final assembly, exhaust, and forced induction.

*Everyday Modifications for Your VW Bay Window Van* Mar 27 2022 Camper van enthusiast Rob Hawkins gives practical advice on modernizing and improving a VW Bay Window camper van. With over 700 colour photographs, the book provides step-by-step guides on how to fit a wide range of simple and more sophisticated upgrades to bring a Bay Window into the 21st century. With safety information throughout, the book covers: upgrading the interior - front bench seats, trimming panels, LED lighting, sound proofing and fitting a budget sound system; improving the ride quality - how to improve the suspension, change dampers, assess wheels and tyres and fit uprated anti-roll bars; better brakes - Bay Window brakes can be as good as a modern vehicle's, and this book shows you how to do it. Also covered is information on updating the electrics, engine preservation and upgrades including removing and rebuilding an engine. Fully illustrated with 728 colour photographs.

*Two-Stroke Performance Tuning* Apr 03 2020 Engine-tuning expert A. Graham Bell steers you through the various modifications that can be made to coax maximum useable power output and mechanical reliability from your two-stroke. Fully revised with the latest information on all areas of engine operation, from air and fuel, through carburation, ignition, cylinders, porting, reed and rotary valves, and exhaust systems to cooling and lubrication, dyno tuning and gearing.

**The Early Years, 4-Stroke Engines Make Their Debut** Aug 20 2021 This collection is a resource for studying the history of the evolving technologies that have contributed to snowmobiles becoming cleaner and quieter machines. Papers address design for a snowmobile using E10 gasoline (10% ethanol mixed with pump gasoline). Performance technologies that are presented include: • Engine Design: application of the four-stroke engine • Applications to address both engine and track noise • Exhaust After-treatment to reduce emissions The SAE International Clean Snowmobile Challenge (CSC) program is an engineering design competition. The program provides undergraduate and graduate students the opportunity to enhance their engineering design and project management skills by reengineering a snowmobile to reduce emissions and noise. The competition includes internal combustion engine categories that address both gasoline and diesel, as well as the zero emissions category in which range and draw bar performance are measured. The goal of the competition is designing a cleaner and quieter

snowmobile. The competitors' modified snowmobiles are also expected to be cost-effective and comfortable for the operator to drive.

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