



## DSG MILEAGE IMPROVER



### The Ultimate in Fuel Savings

10% FUEL ECONOMY GAIN

10% EMISSIONS REDUCTION

25% TORQUE & PULLING POWER GAIN

MILEAGE IMPROVEMENT PERFORMANCE MODULE FOR:

CUMMINS® ISX - QSX

CATERPILLAR® C9, C12, C15

DETROIT DIESEL

MACK

MERCEDES BENZ

- \* Easy 10 minute Install or Uninstall.
- \* No Footprint Left in ECM.
- \* Quick & Easy Downloading Process.
- \* Improved emissions for environmental protection.
- \* Constant torque for all speed ranges.

NOTE: Top Performance and Fuel Saving **REQUIRE** that engine and fuel systems are in top condition

Use 4+ Super Clean before Installation of any performance module to clean it up and then use 4+ Premium for regular maintenance.



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**1-800-667-6879** 230 - 29th Street East, Saskatoon, SK S7L 6Y6



**POWER SYSTEMS**  
ENGINES • GENERATORS • FUEL SCIENCE • PARTS & SERVICE



The parties agree that the implied warranties that result in the Sale of Goods Act are excluded and shall not apply to goods or services supplied. The parties also agree that only the warranty expressly provided by DSG Power Systems or Saskatoon Diesel Services Ltd. shall apply to the goods sold or service provided. The purchaser hereby enters into this transaction acknowledging that he/she has read this agreement and warranty disclaimer herein and acknowledges that this agreement comprises the entire agreement between the parties and that there are no conditions, extrinsic representation or collateral agreements that alter or restrict this 30 day Warranty set out in the terms and conditions of sale above. Warranty limited to the original purchaser. 800-667-6879. You can contact your local distributor for more information.



## DSG MILEAGE IMPROVER ROI CALCULATOR

### User Inputs

Module ROI Calculator		
Miles per year	120,000	120,000
Average fuel economy (MPG)	5.5	5.5
Price of fuel (per imp. gallon)	\$6.25	\$6.25
Increase in MPG %	3%	5%
Fleet Size	5	5
Number of Years	1	1

### Stock vs Module Comparison

	Stock	With Module	Stock	With Module
Miles per Gallon	5.50	5.67	5.50	5.78
Fuel Cost per Mile	1.14	1.10	1.14	1.08
Total Fuel Cost/Month	11,364	11,033	11,364	10,823

### First Year Analysis

	Truck	Fleet	Truck	Fleet
Stock Fuel Cost Per Year	\$136,363.64	\$681,818.18	\$136,363.64	\$681,818.18
Fuel Cost Savings per Mile	\$0.03	\$0.03	\$0.05	\$0.05
Revised Fuel economy MPG	5.67	5.67	5.78	5.78
Adjusted Fuel Cost	\$132,391.88	\$661,959.40	\$129,870.13	\$649,350.65
Annual Savings	\$3,971.76	\$19,858.78	\$6,493.51	\$32,467.53
One Time Investment	\$2,400.00	\$12,000.00	\$2,400.00	\$12,000.00
Net 1st Year Savings	\$1,571.76	\$7,858.78	\$4,093.51	\$20,467.53
Monthly Savings	\$330.98	\$1,654.90	\$541.13	\$2,705.63
Months to Pay for itself	7.25	7.25	4.44	4.44

### Projected Savings (1 Year)

	Truck	Fleet	Truck	Fleet
Total Cost of Fuel	\$136,363.64	\$681,818.18	\$136,363.64	\$681,818.18
Adjusted Fuel Cost	\$132,391.88	\$661,959.40	\$129,870.13	\$649,350.65
1 Year Total Savings	\$3,971.76	\$19,858.78	\$6,493.51	\$32,467.53
One Time Investment	\$2,400.00	\$12,000.00	\$2,400.00	\$12,000.00
1 Year Return on Investment	65%	65%	171%	171%
Net Projected Savings	\$1,571.76	\$7,858.78	\$4,093.51	\$20,467.53

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## DTE Ag MODULES

Tractor chip tuning ensures additional power and consumption saving

Tractors and other agricultural vehicles need ample power for the hard work. At the same time consumption should be reasonable and operational cost should be realistic.

DTE-Systems offers performance optimisations for these Diesel generation sets as well which ensure additional energy reserves and enable a clear reduction of consumption

More power, more torque

No matter if you want to employ a tractor, a combine or other agricultural or forest vehicles, DTE enables you to do so with more power and output by an optimized torque in any possible work situation.

Achieve more commercial effectiveness and savings with our auxiliary controllers. In times of high and increasing energy costs a very important factor. Utilize the increased performance to improve your company's profits!

Robust high quality casing for highest strains

The new casing of these systems is characterised by very great stability. The acid-proof, heat-resistant special-purpose plastic and the robust AMP 18pol plug have been developed especially for high strains in the harsh day-to-day work.

Self-installation or installation service available!

The systems may be installed by you without any problems with the help of the included installation manual.

But you may also make use of our installation service!

### Available for:

Agco	Krone
Case IH	Lamborghini
Caterpillar	Landini
Challenger	Lindner
Claas	Massey Ferguson
Deutz	Mc Cormick
Fendt	New Holland
JCB-Fastrac	Steyr
John Deere	Valtra



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## DSG HEAVY DUTY PARTS

### Quality Parts, Knowledgeable Staff, 25 Years of Experience

DSG has been supplying quality products for the Construction, Mining, Trucking, Logging, Marine, Power Generation and Agricultural industries for more than 25 years.

There are many places world wide to source products but we have elected to maintain our overall product line quality and provide the best, not necessarily the lowest price product.

From packaging, product appearance, piston metallurgy and where required, induction hardened cylinder liners, you find the same qualities you have come to expect from DSG and can promote it with confidence.

### You Don't Need To Pay OEM Prices For OEM Quality Parts

*There are only a few piston and sleeve manufacturers in the world. So who's really making your parts?*

DSG Power Systems offers genuine replacement parts for diesel engine systems that carry our guarantee of quality and precision to meet or exceed original equipment performance.

DSG Power Systems stocks over 8000 replacement parts for CATERPILLAR\*, CUMMINS\*, and DETROIT DIESEL\* engines, including: air compressors, water pumps, turbos, and Jacob Brakes\* parts.

DSG Power Systems also offers a wide range of products for diesel engine fuel injection systems.

\*Caterpillar, Cummins, Detroit Diesel, & Jacob Brake are all registered trademarks of said companies.

CAT®	CUMMINS®	DETROIT®
DEUTZ®	ISUZU®	NAVISTAR®
VOLVO®	AND MORE	

### CATERPILLAR

Grooved Connecting Rod Bearings a proven design for Caterpillar® 3400 Series Engines. Available exclusively from DSG for all 2306 / 3408 / 3422 engines to reduce bearing cavitation erosion.

### Crevice Seal Liner for Caterpillar 3400 Series Engine

Uses an innovative new type of seal that will reduce liner movement which may lead to block wear, o-ring deterioration, cavitation and piston ring wear.

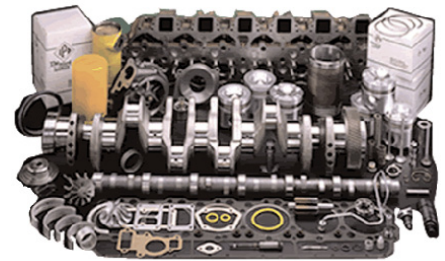


### Gasket Sets

DSG offers you a choice, multiple gasket sets for Caterpillar engines or the exclusive DSG "1-2-3" complete style gasket sets.

### CUMMINS

DSG supplies not only replacement products for this popular engine range but also innovative ideas such as our induction hardened cylinder liners that can help you to become more competitive whether you are selling engine parts, rebuilding engines or operating equipment. All this is backed by our DSG Warranty Policy.



### Parts & Engine Kits For L-10 and N-14 CUMMINS® ENGINES

DSG, a leader in offering products for the Cummins® engine for over 5 years, is now adding the cylinder liner to its program.

*The cylinder liner for the Cummins® engine Induction Hardened for greater wear resistance and increased blow-by is control. Rockwell (42-46)*

All pistons for Cummins® engines are manufactured with Dual Ni Resist piston ring inserts for increased wear resistance of the second ring groove. Dual Ni Resist Pistons must not be mixed with original Single Ni Pistons. Replace in complete sets only.

All Cylinder Kits for Cummins® engines include, pistons, pins, rings, retainers, cylinder liners and liner seal.

Also available are crankshafts, camshafts and valve train parts.

Re-manufactured and exchange components in stock for most models.

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## HEAVY DUTY PARTS

### DETROIT DIESEL

Manufactured Liners for Detroit Diesel® Engines with Unique Honing Pattern

“Two Stage” cross hatch pattern and finish that allows for quick break-in and resists ring scuffing and oil ring damage.

Roll-burnished flange for added strength

Polished ports to help reduce ring damage

Hardened bore for better wear

Trouble Free  
Detroit Overhauls!



### Engine Parts & Components

Many companies have tried to supply aftermarket products for Detroit Diesel® engines over the years, and most have not had much success. At DSG we learned to supply our customers a consistent quality product such as they have come to expect.

Detroit Diesel® piston kits are available from DSG in many combinations of complete cylinder kits which include Induction Hardened cylinder liners for increased wear resistance.



### Navistar® DT466 & 466E 4 Ring Parts

Once again DSG was not satisfied for “equivalent”. When engine owners complained about excessive blow-by and constantly dirty oil in DT466 engines, it was DSG that secured an innovative 4-ring DT466 piston that helped reduce blow-by and oil contamination.

Coupled with an induction hardened cylinder liner we can provide you with an alternative that can help increase your engine life as well as coverage by our DSG Warranty Policy.

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### Heavy Duty Performance Chips Increase Horse Power and Fuel Economy

DSG Power Systems can help you get the most out of your ‘Big Rig’ and other heavy duty machinery. Performance chips can increase your HP while maintaining your fuel mileage.

Available for most makes and models including

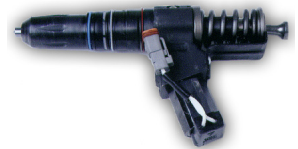
- CAT
- DETROIT
- MERCEDES-BENZ
- CUMMINS ISX, QSX
- NAVISTAR - DT466E
- MACK

### DSG Power Systems Remanufactured Injector Program

Save money with DSG Power Systems’s Reman Injector Program. All injectors are rebuilt to exacting ISO9000 specifications. Electronic injectors are calibrated using our state-of-the-art equipment recently purchased from Europe.

#### Set your mind at ease with:

- Top Quality Workmanship
- 6 Month Warranty
- Coverage by the Association of Diesel Specialists  
Nationwide Warranty
- Coverage anywhere in North America



#### Electronic Unit Injectors (E.U.I. and H.E.U.I.)

- Caterpillar 3406E, C12
- Cummins STC
- Cummins Celect
- Navistar & Ford (New Only)
- Detroit Series 60
- John Deere
- Volvo



#### Conventional Mechanical Injectors

- CAT, Detroit, Cummins
- Pencil Injectors (Case, John Deere etc)
- Bosch 6.5L GMC/Chevrolet
- Bosch 6.2L GMC/Chevrolet
- Bosch John Deere
- Bosch & AMBAC Case



#### Common Rail

- Duramax Bosch



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## HEAVY DUTY PARTS

### Tune-up Your Engine Brake

Year after year Pacbrake engine brakes continue to prove their power and reliability.

Reality is - eventually they may need a tune-up. You can get back that same power and reliability with a Pacbrake tune-up kit.

Pacbrake's engineering and component tolerances are absolutely the best in the industry. You get superior quality at a price that is second to none.

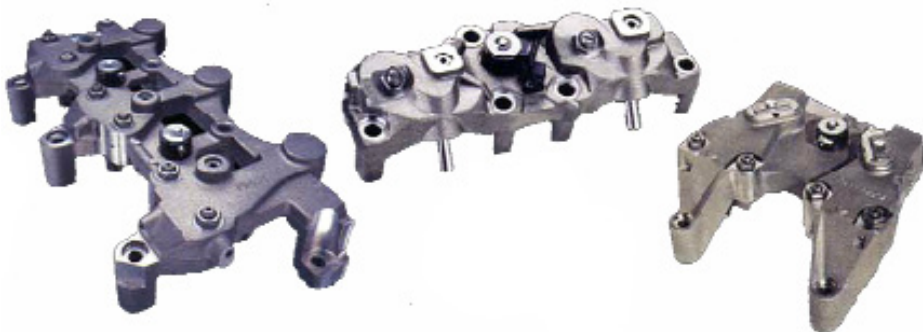
- Restore Maximum Engine Brake Performance
- All Parts Necessary for a Complete Tune-up in One Convenient Package
- Easy Installation
- Replacement Parts Warranty 6 Months from Date of Delivery

#### Kit Contains:

- Seal Rings
- O-Rings
- Fasteners
- Solenoid Lead Wires
- Control Valves
- Coil Springs
- Flat Springs
- And More...



Behind every Pacbrake product stands a team of qualified engineers, state-of-the-art manufacturing processes and an internationally recognized quality system. Each Pacbrake product is developed within the rigorous specifications of teach engine manufacturer and is backed by the best warranty in the industry. Pacbrake is directly connected to dealers from coast-to-coast in the USA and Canada. Pacbrake supports the dealerships and independent parts and service outlets through 6 national warehouses with a direct ship parts support program that simplifies and streamlines buying a Pacbrake product



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## PACBRAKE TUNE-UP KITS

### Pacbrake tune-up kits

PN	Engine Model	Description	Jake	Caterpillar	Cummins	Detroit
P16846-3	Cummins N-14 / N-14+	Gasket Kit - Contains 3 gaskets	16846	--	--	--
P19502	Cat C-10 / C-12	Jake 310A, 312A	19502	143-6626	--	--
P19654	Cat 340EE C 15 / C-16	For Jake 340, 340A, 340B only	19654	143-6628	--	--
P19848	Cummins L10 / M11	Jake 404, 404R, 404RG, 404C, 404D, 411, 411C	19848	--	3871540, 3871580 3871586	--
P19875*	Detroit S60 12.7L	Premium Kit For Jake / Tec 760 only	19875	--	--	19875
P20520*	Detroit S60 12.7L	Econc Kit - Contains no lash adjusting screws For Jake / Tec 760A, 765, 765A, 770 only	--	--	--	--
P20531*	Detroit S60 12.7L	Premium Kit - Contains lash adjusting covers For Jake / Tec 760A, 765, 765A only (Not for 770)	20531	--	--	20531
P20920	Cummins N-14 / N-14+	Econc Kit - Contains no gasket or CV spring collar For Jake 440, 440A, 445, 450A/B, 455A/B/C	--	--	--	--
P20923	Cummins N-14 / N-14+	Premium Kit - Contains gaskets and CV spring collar for Jake 440, 440A, 445, 450A/B, 455A/B/C	20923	--	3871586 3871704	--
P34601	Cat 340EB / C	Pacbrake P-36 & Jake / Tec 346A, 346B, 346C, 346D	14067	143-6479	--	--
P38011	Cummins 88 / 89 NT	Pacbrake P-38, Jake / Tec 430	017690	--	3871538	--
P39010	Cat 340EE C-15 / C-16	Pacbrake P-39/A/B only	--	--	--	--
P40012	Cummins 855	Gasket Kit - Contains 3 gaskets - economy Pacbrake P-25B, P-30E, P-40, Jake 41B, 400, 400H, 425	--	--	--	--
P40022	Cummins 855	Gasket Kit - Contains 3 gaskets - premium Pacbrake P-25B, P-30E, P-40, Jake 41B, 400, 400H, 425	--	--	--	--
P40024	Cummins 855	Pacbrake P-25B, P-30E, P-40, Jake 41B, 400, 400H, 425A, Tec T425A	013950	--	--	--
P40026	Cummins 855	Jake 401A, 401B, 401C, 420, 425	017687, 017688 017689	--	--	--
P60101	Detroit S60 11/12.7/14.0L	Pacbrake P-61, P-63, P-63A/B/C	--	--	--	--
P69201	Detroit 6V-71/92	Jake 6V 71/92/A	017056	--	--	17056
P30010	Detroit S80 12.7/14.0L	Pacbrake P-80	--	--	--	--
P89201	Detroit 8V-71/92	Jake 8V 71/92/A	017057	--	--	17057

\* available soon

**Replacement parts warranty - 6 months from date of delivery**

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## HEAVY DUTY PARTS

### **INNOVATION**

Innovation... Not Imitation

With DSG products you can do more than just lower rebuilding cost – you can help eliminate problems. Shown here is a partial listing of some of the innovations in engine parts for diesel and natural gas engines:

- One of the first distributors to offer induction hardened cylinder liners for use in Caterpillar® engines resulting in longer engine life over non-hardened liners.
- DSG is a supplier of induction hardened liners for use in Cummins® engines as well.
- When mechanics complained of excessive blow-by in Caterpillar® 3208 engines, DSG sourced the first 3-ring piston with dual ni-resist inserts for this engine.
- Again, when mechanics and drivers of DT466 Navistar® powered vehicles complained of blow-by, DSG attained a 4-ring piston, reducing blow-by as much as 40% in independent tests!
- DSG Power Systems also secured Pressure Relief Grooved connecting rod bearings for use in Caterpillar® 3400 series engines which can reduce cavitation and prolong the life of the bearing.
- Steel water pump backing plates for 3406 / 3408 / 3412 engines resist breaking and erosion.
- Complete gasket sets that supply all the parts you need to perform an out of frame (#1 suffix), in-frame (#2 suffix), or replace cylinder heads (#3) on your engine.
- Remanufactured timing advances for 3208 Caterpillar® engines reducing your risk factor and cost.
- Crevice Seal Liners for Caterpillar® 3400 series engines which helps reduce the amount of cylinder liner movement.
- Optional pistons for use in certain Caterpillar® 3304 & 3306 engines...
- Another option for the 8N3182 from DSG is the 8N3182H, higher compression for high altitude and reduced white smoke.
- Articulated Cat Pistons

**For ALL your Diesel Needs, Call DSG Today  
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