

for big car performance . . .

SUPERCHARGE WITH JUDSON



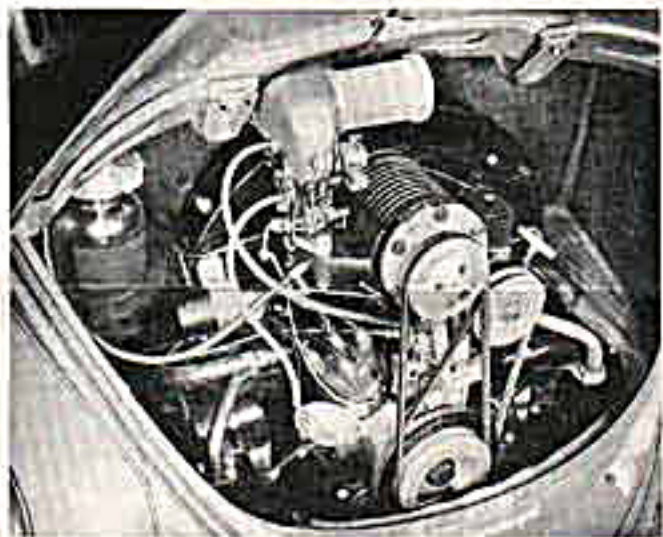
Experience a new thrill in driving your Volkswagen. Imagine having lightning fast acceleration . . . cruising at a higher speed with less engine effort . . . passing when you want to . . . the engine responding immediately to the touch of your foot on the accelerator. You can pass when you want to and have extra power when you need it. The

lumbering pace up steep hills will be a thing of the past. A Judson Supercharger on your Volkswagen will give you this improved performance and surging power smoothly, dependably and without sacrificing engine life. Get all the power out of your Volkswagen, smooth surging power that is always available with a Judson supercharged engine.

Here is a complete supercharger installation in the form of a bolt-on kit designed specifically for the Volkswagen. You can install it in less than three hours and get an amazing improvement in performance.



The Judson Supercharger is a precision product manufactured by America's leading manufacturer of automotive superchargers.



A completely integrated and engineered kit bringing satisfaction to thousands of Volkswagen owners throughout the world.



A bolt-on kit designed specifically for the Volkswagen. Can be installed in less than three hours using standard tools.

the
ABC
of supercharging
your VOLKSWAGEN



The power output of any engine is limited by its ability to take in air or breathe. Supercharging is a mechanical method of forcing the air gas mixture into the cylinder under pressure instead of using the piston to suck it into the cylinder. A supercharger simply places more of the fuel mixture behind each power stroke of the piston and distributes the mixture evenly thus increasing the power of the engine. Supercharging is the positive and dependable method of obtaining more power. It is done by making the engine more efficient through increased torque and not increased speed. The engine develops more horsepower at the same speed. Because of the increased efficiencies afforded by supercharging practically all transcontinental trucks, buses, locomotives and airliners are supercharged. The Volkswagen engine is more than rugged enough to take low pressure supercharging without affecting its traditional economy and reliability.



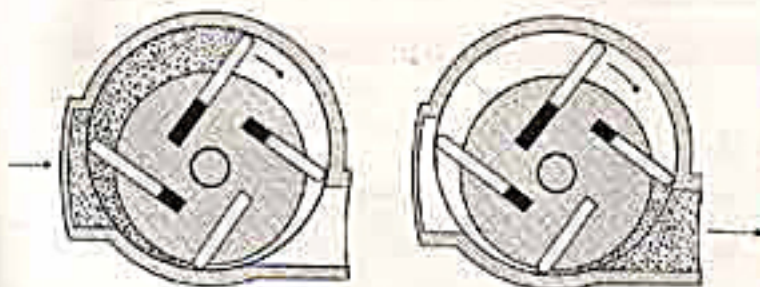
The Judson Supercharger is an automatic device that replaces the vacuum in the intake manifold with a pressure only when and as additional power is required. The engine is not constantly supercharged as the extra power afforded by the supercharger is not required at normal cruising speeds, idle or general traffic driving. When the accelerator is suddenly depressed, however, the engine immediately becomes supercharged and the car takes off like a rocket. The engine is not continuously supercharged but only when you need and want additional power to pass, maintain power on hills or for rapid acceleration. Supercharging you car is just like adding two more cylinders to the engine and you will have as much power or torque available in fourth gear as you now have in third gear. Supercharging, unlike engine modification (special heads, camshaft, crankshaft, etc.) does not change the natural characteristics of the engine nor is it necessary to completely disassembly the engine to install new components. With a supercharger it is only necessary to bolt the parts furnished with the supercharger kit to the engine making it even unnecessary to remove the

engine from the chassis. A comparison in performance between supercharging and engine modification clearly shows that the mildly supercharged engine will outperform the modified engine by as much as 25% and cost one-third as much.

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Supercharging is a matter of degree. Racing cars that are supercharged operate on a manifold boost pressure of 15 psi to 30 psi. This is high pressure supercharging and the engines are specifically designed for it. The Judson supercharged Volkswagen operates on a boost pressure of less than 6 psi. This conservative amount of supercharge provides up to 50% more horsepower on demand and enables the engine to operate well within the safety factor built into the engine by the manufacturer. The fact that the engine is supercharged automatically in proportion to the load placed on it, together with the low pressure eliminates the possibility of the Judson Supercharger damaging the engine in any way. There are over 65,000 Judson model VW superchargers in operation bringing improved performance and complete satisfaction to their owners everywhere. Many of these have been in continuous service for over five years. Testimonials from owners and extensive road tests made by every leading automotive magazine in the world prove conclusively the efficiency and reliability of the Judson Supercharger.

Why not supercharge your Volkswagen? It will provide you with the performance you need. You can pass when you want to and have extra power when you need it.



Intake

Discharge

The Judson Supercharger is a positive displacement rotary vane type compressor. This is the principle used in most aircraft fuel pumps and many industrial compressors. The mixture enters the supercharger through the carburetor and is compressed. The pressurized mixture is then forced into the manifold. The Judson Supercharger utilizing the exclusive and patented principle of balanced pressure with non-metallic vanes is efficient, dependable, silent and is subject to less wear than other accessories now on the engine. It is acknowledged by automotive engineers everywhere as the standard of quality and performance.

a bolt-on kit for the **VOLKSWAGEN** installed in **4** easy steps

Remove air cleaner, fuel line, vacuum line and carburetor from engine. Install pulley on end of crankshaft. Fasten automatic lubricator to firewall



Replace studs and jet in carburetor, fasten carburetor to supercharger and connect throttle linkage

Bolt supercharger with carburetor to engine, install drive belt, connect throttle and fasten supercharger support brace



Install gas line, vacuum advance line, connect automatic lubricator to supercharger and install air cleaner. Installation is complete

performance data **JUDSON** model VW supercharger

Performance figures are average of 1500cc and 1600cc engines (1967-1970) and will be proportionately less for 1300cc and 1200cc engines.

ACCELERATION IN SECONDS:	UNSUPERCHARGED	SUPERCHARGED
0-30 MPH	5.8	3.7
0-40 MPH	9.8	5.4
0-50 MPH	13.5	8.5
0-60 MPH	21.0	12.8
BHP (1500cc — 1600cc)	53-57	78-85
HP AT REAR WHEELS	40	58
TOP SPEED	78	88
WEIGHT TO POWER RATIO	36	25
FUEL CONSUMPTION, MPG	28	26
NOISE LEVEL	55	55

SPECIFICATIONS

TYPE—Rotary vane, positive displacement
MANIFOLD BOOST PRESSURE—3-6 PSI
DRIVE—"V" belt drive
DRIVE RATIO—1:1.3
CARBURETION—Stock carburetor, revised jet
LUBRICATION—Independent lubricator uses ordinary motor oil which is fed to the supercharger in proportion to engine load
AIR CLEANER—Special for supercharged induction
DIMENSIONS—5½" x 9" long
WEIGHT—17 lbs.

GENERAL DATA:

ENGINE RELIABILITY—Supercharging at low pressure does not affect the reliability of the engine in any way. Dependability, starting ease, idling or engine life is not sacrificed. The Judson Supercharger installation is in complete keeping with the Volkswagen's reputation of reliability.

FUEL CONSUMPTION—Gasoline consumption is increased five to ten percent depending on the driving habits of the individual.

DEPENDABILITY—The Judson Supercharger is precision automotive equipment designed, engineered and manufactured by America's leading manufacturer of

superchargers. High capacity precision bearings and alloy material assure years of efficient and dependable service.

NOISE—Judson Superchargers are famous for their silent operation and tests show that the noise of the engine is not raised by the installation of the supercharger.

SERVICE—The only service required is the occasional checking of the oil level in the automatic lubricator. One filling is sufficient for one thousand miles. The drive belts are a standard size available everywhere. Complete service data is included with each set of installation instruction.

WARRANTY—Every Judson Supercharger carries a standard manufacturer's warranty and is guaranteed against failure due to defective material and workmanship.

PRICE

Price of complete kit is \$199.00. Kits available for Series 1 (Beetle), Ghia and Bus (standard transmission only). For installation on Ghia add \$16.00 to cover cost of required rear deck modification kit. Not recommend-

PRICE INCREASED
AUGUST 1, 1971 TO \$238.00

ed for installation on Fastback or Squareback series with pancake engine. Price is F.O.B. Conshohocken, Penna. Specify year of vehicle in placing order.

DAS AUTO (Germany) "The Judson Supercharger has greatly impressed us . . . it truly allows a new experience in motoring".

ROAD & TRACK "The car is completely transformed with absolutely no objectionable features . . . the supercharger gives the Volkswagen a kick where it's needed".

AUTO VISIE (Holland) "The difference in performance between the supercharged and unsupercharged Volkswagen is greater than one would believe possible".

MOTORSPORT "After putting the car through its paces and comparing notes on its present vs past performance, there can be no doubt about the value of supercharging".

JUDSON RESEARCH AND MFG. CO., CONSHOCKEN, PENNSYLVANIA