## WANT THE BEST MONEY CAN BUY?

... And for far less than you would ordinarily pay?



## W. P. PELZ, M.D. and E. E. SCHMIEDEL, M.D. 1504 East Clark Street CHARLES CITY, IOWA

December 3,66

Judson Mfg. Company Conshohocken, Pa

Gentlemen,

appax.6 weeks ago I decided to have one of your superchargers installed in my Karmann-Ghia 1964. I inquired into all kinds of methods to increase the much needed power and none could match your supercharger in price, simplicity of installation and power.

That little VW is a new car now.Lots of passing power and no loss of dependebility. It feels like the Pursche with the 75 HP engine and the gas consumption has not increased. Noise level unchanged.

I am most pleased with the Supercharger and feel that many more people should take advantage of this method of making te VW a safer car.

W.P.Polz.M.D

working order and that it's the right model for your own engine.

thought it was the machinery rather These last points deserve emphasis since there are so many used blowers available on the market now. Lots of people have bought 'em, thrown 'em on, not followed directions, and then than mechanic and/or driver that disillusioned because caused The Trouble. peen

about proper match of a blower to your engine before you buy a used one. Make sure the blower hasn't been run dry and burnt its vanes. And be sure you have or get a full set of the So check with the manufacturer Of course, one good way around all right directions before you start work. this is to buy a new unit, You pay your money and takes your choice.

Do what the directions say and

carefully; plugs, timing, valves and carburetion all become additionally important since you are taking extra work out of the machine.

oil in the sump and a castor oil in the Maintain the supercharged engine Good lubrication-for the engine and for the blower-will make a sizable difference. A heavy duty racing blower's lubricant bottle aren't essennever mind the bright, expert tip from your neighbor. It's even worth the cost of a long distance call to the maker's plant to clear up any questions considering the \$200-plus cost you've invested and the value of your machinery to begin with.

Complete supercharger and air cleaner for 40 hp VW of 1961 and after is basically the same as earlier model but differs in detail so the two are not diffectly interchangeable.

FOREIGN CAR GUIDE

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## FOREIGN CAR GUIDE

performance and how to without having mechani-What you get in better ive with a supercharger cal problems.

By A. C. BENEDICT

BENEDICT Ü ď

> neighbor put one on his six-month. Slap on a supercharger? Sure. Your cousin knows someone who's had a blower on his VW for years. But your old VW and totalled the engine within a week.

years, ever since superchargers began the modest Wolfsburg Contradictory reports like these have been a puzzle to VW owners for hot arguments pro and con blowers every time two or more car nuts start talking ways to convert urge to to sell in large numbers. One result: surge in machinery.

Confusion on the subject just isn't necessary. The matter comes down to can simply this: Yes, blowers can do break up a supercharged engine. successful job; and, yes,

This is the heart of the matter: a good blower, installed right on a wellnaintained engine can increase torque

ating rpm range without trouble and can do a power-boosting job, but they have no self-limiting upper end. That self before the blower's efficiency is passed to feed large wads of air-fuel vapor to the machine. And poor mainwear point at which the works give throughout the machine's useful operas long as it's not overrun. Blowers, particularly on the low powered VW, is, they can let an engine overrun ittenance or an uncorrected engine deficiency will merely pull down that speed point and hasten that critical anything else that's overworked and up. So it can be done and, sure, break up your engine under maintained. can also

There's no need to avoid superchargers on the basis that they must invariably wreck an engine. I operated a blower on a '61 VW for many chousands of miles with good results

## SUPERCHARGE

charged sunroof against unsupercharged solid roof comparison pitted superland, this acceleration RIGHT: Staged in Hol



gine itself. because at about \$200 and up new, for yourself. Blowers are attractive provement without going into the enyou make a bolt-on performance im-So don't mistake what you're doing

alone, as it is designed for on the duct a Salt-Flats revolution; rather, But this was without trying to conthe dreary to the adequate category extra push to raise the VW from rowing and generally provided enough

the blower served as a moderate assist

VW engine.

right will help you decide pro or con looks at what it takes to do the job

A quick review, then some detailed

about a blower in your own situation

miles, or better yet, until it's out of to bed-in for the added work a blower regardless of how carefully you run will have it do. Wait at least 3,000 to keep from overstressing the engine to make the add-on worthwhile and engine, it must then be in good order brand new engine; it needs mileage it. On the one hand, don't 'charge a

before it can even go it alone, much less with added draft through its block; this machine needs inside work that can barely wheeze around the ping a blower on a tired four-banger On the other hand, it's useless strap-

## HOW TO DU IT RIGHT

tolerances built into the engine itself

fective rpm range of your VW more

few hundred at most. The

A supercharger won't raise the ef-

BLOWERS WON'T

dend to you is more flexibility and the VW can increase its torque over

the Kosher operating range. The divi-

less shuffling with gears.

BLOWERS WILL

It's worth repeating: a blower on

the blower is a good one, in proper doesn't matter how sanely you run the machine if you don't assemble the with a good engine and have it in proper tune. Likewise, make sure that package right to begin with. If you decide to supercharge, it Start

of the VW cum-'charger. in a nominally bolt-on street version engine eliminate radical acceleration mics of gas flow in and out of the blower's inertia and the fluid dyna-

gine problems at all.

It helped on hills, reduced gearshift

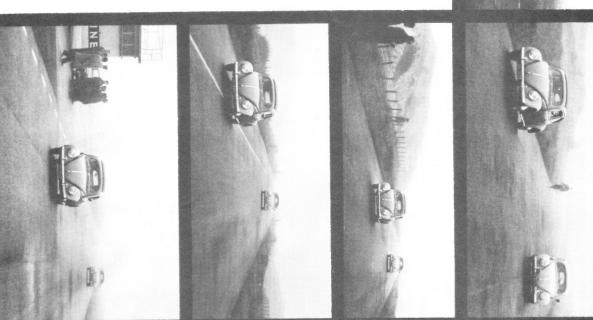
and without any blower-induced

en-

warranty at 6,000. But if you're not going into the

works.





After 5 seconds, the su-percharged sunroof has already jumped into the lead by a noticeable amount.

16.8 the supercharged car is length of a football field), mark with 19 seconds for the Cars approach 250 meter stock Beetle. seconds ahead seconds compared (not quite Ω.

Photographer got this se-quence of shots from a shooting at 5 second in-tervals very early one misty morning. 1.6 Porsche Convertible

around charged car the first time seconds erence on a second run made At 500 meters the differpher. without and was a good 4 for the even more the superphotogra

on with dazzling acceleration; the turn your VW into a drag strip dragchine. Neither will a supercharger

limits originally built into the main this category to begin with. Thus And Wolfsburg does a first class job sign characteristics, materials, and limit is strictly a function of the de-

you can work safely only within the

## JUDSON



## RESEARCH AND MFG. CO. CONSHOHOCKEN, PENNA.

TELEPHONE: (215) 828-3011 CABLE: JUDGO

Dear Sir:

Thank you for your inquiry of recent date. We have enclosed complete information on our model VW Supercharger as requested. As a Volkswagen owner you are interested in better performance and more power. The Judson Supercharger with controlled manifold pressure will give this to you silently and without affecting the reliability of this dependable car in any way.

Read the enclosed literature over carefully. A Judson Supercharger on your Volkswagen will give you this improved performance and surging power smoothly and dependably. It is a new and exhilarating experience in VW driving. You will note that we furnish a complete supercharger installation in the form of a kit designed specifically for the Volkswagen engine. Installing it is an extremely simple matter and consists of bolting the supercharger to the engine in accordance with the illustrated installation instructions furnished.

Here is your opportunity to join the thousands of Volkswagen owners throughout the world who are getting improved performance and increased satisfaction from their Volkswagen by supercharging with Judson. It provides amazing acceleration, a higher cruising speed with less engine effort and better control for safer driving. The lumbering pace up steep hills will be a thing of the past. A Judson Supercharger gives you the kind of performance you need for safe highway driving.

Don't let your Volkswagen dealer talk you out of supercharging because he has agreed to sell VW products only. Order direct from the factory as have thousands of other Volkswagen owners. You can place your order with the full assurance of getting guaranteed quality automotive equipment that will increase the power and performance of your Volkswagen by at least 45%. Order your Judson Supercharger now and enjoy a new thrill in driving pleasure.

Sincerely,

JUDSON RESEARCH & MEG. CO

Charles A. Judson

manufacturers of superchargers, electronic ignition, engine synchronizers, telemetering systems

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