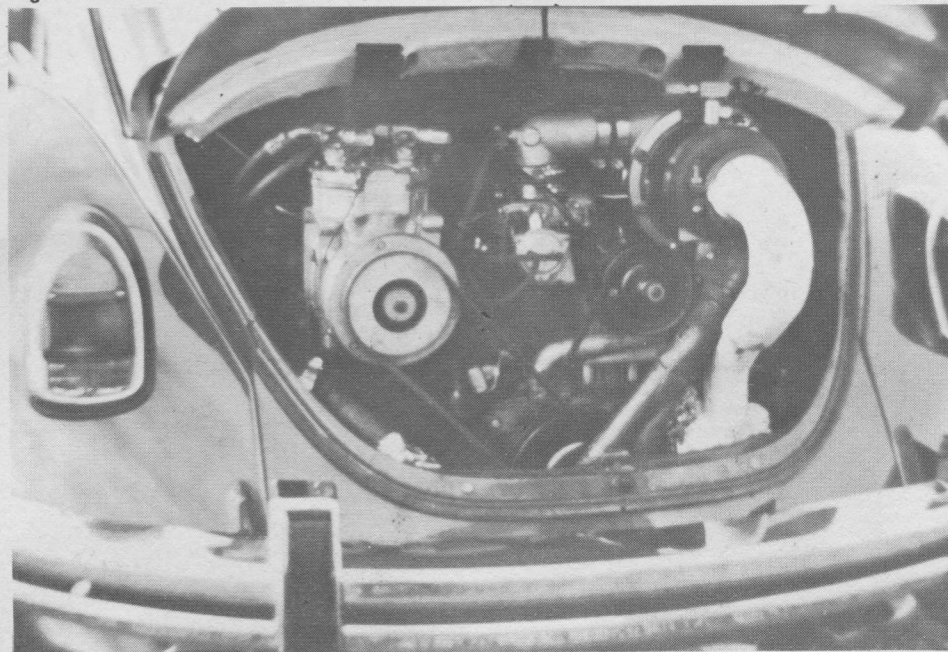


Checkpoint America 1973-75 MGB prototype kit uses Rajay 377B40 turbo. Boost comes in at 1800 RPM, is restricted to 14 psi. SU carburetor uses a special air filter. Distributor is reworked to limit total advance. Exhaust HC and CO emissions reduced 50%, NO<sub>x</sub> slightly lower than stock. Builder claims fuel consumption 10% less than stock.

Figure 140—Schwitzer-turbocharged 1600cc Volkswagen engine.



America has found it to be very responsive at low RPM, more tractable and easier to drive and if you desire, will out-accelerate a Daytona Ferrari from zero to 120 miles per hour. It will still cruise at better than 70 miles per hour at 33 miles to the gallon. If this isn't impressive enough, the rear-wheel horsepower on a chassis dynamometer showed the following before and after the turbocharger was installed:

RPM	Naturally Aspirated Horsepower	Turbocharged Horsepower
4000	39	78
4500	46	110
5000	59	123
5500	72	132
6000	78	149
6500	81	

It is interesting to note the turbocharged version only goes to 6000 RPM rather than the 6500 of the naturally aspirated engine. This should impress the people who think a turbocharger only works at very high engine speed.

Their kit for the Lotus Super 7 is just as impressive. This model requires a little more work because the compression ratio must be lowered from 10.3:1 to 8.5:1 by using special forged J. E. Pistons. The 0-60 time runs around 5.0 seconds using 185/70-13 radial tires. The 1/4-mile time is 12.28 seconds. Vandivort uses it for daily transportation when weather permits.

Checkpoint America also has a kit for the MGB shown in the photograph. This particular installation not only produces a lot more horsepower but an emissions test showed it reduced all three pollutants.

#### CRANE CAMS INC., HALLANDALE, FLORIDA

Crane Cams not only offer Schwitzer Turbocharger Kits for the Volkswagen and the Vega but their Division V. P., Don Hubbard has written a manual on turbocharging engines using Schwitzer Turbochargers. It includes information on choosing the right turbocharger for the application and Don has actually picked the exact turbocharger to be used for many installations. The manual also contains cam information for turbocharged engines and service instructions for the turbochargers. Anyone wishing to use Schwitzer Turbochargers for their engines