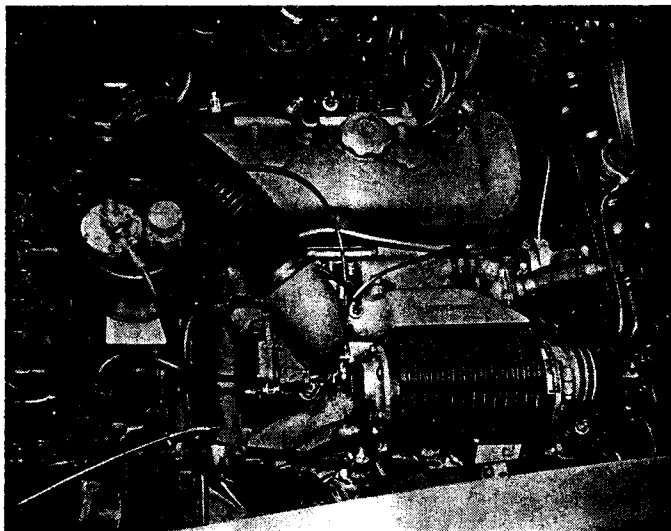




NEW PRODUCTS —

JUDSON SUPERCHARGER FOR THE 190SL

The Supercharger has been designed specifically for this engine and installation in the form of a kit. Installing the supercharger on the engine is an extremely simple matter as no chassis or body modifications of any kind are required. The supercharger is equipped with a large American carburetor. The original air cleaner can be used. An automatic lubricator is also furnished with the supercharger which is shown in the photo directly in front of the battery. This lubricator feeds No. 10 HD Motor oil to the supercharger thru the intake inversely to vacuum. In other words as the load on the engine is increased the quantity of oil fed is increased. The automatic lubricator uses approximately one quart of oil per thousand miles and in addition to lubricating the supercharger the oil acts as an upper cylinder lubricant.



The supercharger is driven directly from the crankshaft with two high capacity belts. The drive ratio is approximately 1:1 and this provides a manifold boost pressure of 5 psi throughout the entire speed range of the engine. The supercharger is automatic and replaces the vacuum in the intake manifold with a pressure automatically and in proportion to the load placed on the engine. Whether or not the engine is supercharged or unsupercharged depends on the position of the throttle.

In regards to performance, the addition of the the supercharger on the Mercedes 190SL increases the horsepower delivered at the rear wheels at 5,000 RPM from 78 HP to 110 HP. Acceleration time is reduced on an average of 40 to 42 percent throughout the speed range. The Judson supercharged Mercedes 190SL has a much smoother running engine, it eliminates the flat spot that is encountered on some of these engines in the mid speed range and it also eliminates starting difficulties caused by vapor lock. As previously stated, the engine is much smoother running and nearly twice as responsive to the throttle.

Cost analysis is not completed but it is estimated that the price will be between \$350.00 and \$365.00 F.O.B. Conshohocken, Pa. This price will of course include the complete kit with our furnishing everything required to make the installation on the Mercedes 190SL.

The tooling necessary to produce this on a production basis is now being manufactured and it is anticipated that production will begin between December 1, and December 15, 1958.

For further information write Judson Research Mfg. Co. — Conshohocken, Pa.