



THE ALEXTRACTOR

A SCIENTIFIC ANSWER TO IMPROVED EXHAUST EFFICIENCY

*from two of the best-known specialist
engineering companies in British Motoring*

For 10 years Alexander Engineering Co. Ltd. have undertaken specialist research and have marketed "Added Performance" engine conversions for popular cars.

Now they have turned their attention literally to the tail end of the science, that of obtaining added performance by improving the breathing efficiency of an engine. H.R.G. Engineering have developed and produced for Alexander this completely new exhaust augmentor.

- Which achieves maximum extraction of exhaust gases—
- Effectively traps reverse pulses which occur at specific power periods—
- Makes more engine power available—
- Improves fuel consumption—
- Gives a cleaner engine, requiring less frequent overhauls.

Though its function described overleaf is complicated, and its design carefully and scientifically determined, its construction in non-corrosive light alloy is remarkably simple.

It is suitable for any exhaust pipe from 1 - 2 inches in diameter.

The Alextractor can be fitted in a matter of minutes, simply by placing it over the end of the exhaust pipe, and tightening a jubilee clip. However, should the Alextractor protrude too far beyond the rear bumper then a sufficient length of the exhaust pipe should be sawn off.

The Alextractor will NOT increase exhaust noise within the car, though from outside an even and harmonious "burble" distinguishes it from a standard exhaust system.

PRICE 59/6.
postage & packing 6d.

ALEXANDER ENGINEERING CO. LTD.
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ALL ABOUT THE ALEXTRACTER

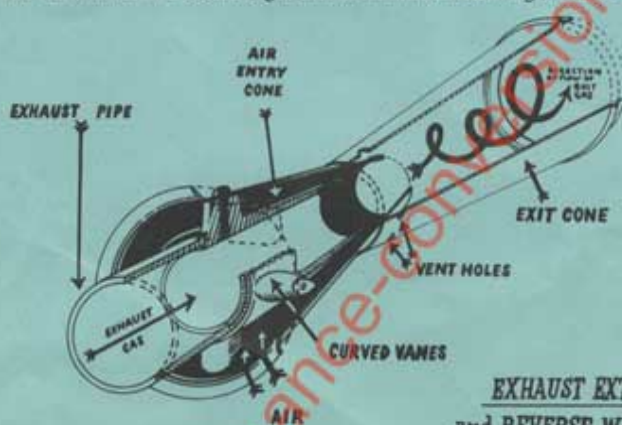
Patent Applied for

Why

Any pipe with an open end and subject to pressure pulses, as for example a motor vehicle exhaust system, has a natural frequency; this means that positive pressure can be reflected back from the open end of the pipe to the exhaust ports of the engine thus opposing free exit of the outgoing gases. It is an advantage, therefore, particularly if the engine has to operate over a wide speed range, as does that of a normal car, to provide at the terminal end of the exhaust pipe a device which acts as a depression producer and a reverse pulse trap.

What it is

The Alextracter has been designed to work in the following manner:



EXHAUST EXTRACTER
and REVERSE WAVE TRAP
PATENT APP. FOR

A converging conical air intake facing the direction of motion admits cold air which then passes over aerofoil section angled vanes into the extractor. These vanes impart a rotary motion to the air, so that when the cold air meets the hot exhaust gases the mixture of these two streams expands with a whirling action up the diverging cone, cooling further (in accordance with established laws concerning behaviour of expanding gases). On reaching the end of the rear cone, the cooling, expansion, and centrifugal force cause a depression to be formed at the end of the exhaust pipe. The result is maximum extraction of exhaust gases, more available engine power, and improved fuel economy.

There is nothing in the Alextracter to interfere with straight line emergence of exhaust gas, nor any moving or flexible members as in some devices of this nature.

The Reverse Pulse Trap

This is achieved by extending the converging air entry cone into the diverging exit cone.

Any reverse pulse which develops must follow the circular motion of the gas round the periphery of the exit cone, where it is caught by the protrusion of the air entry cone, and forced through a series of holes round the small end of the exit cone.

Terms of Payment: Cash on collection or approved accounts.

The Company reserves the right to alter prices and specifications without prior notice.