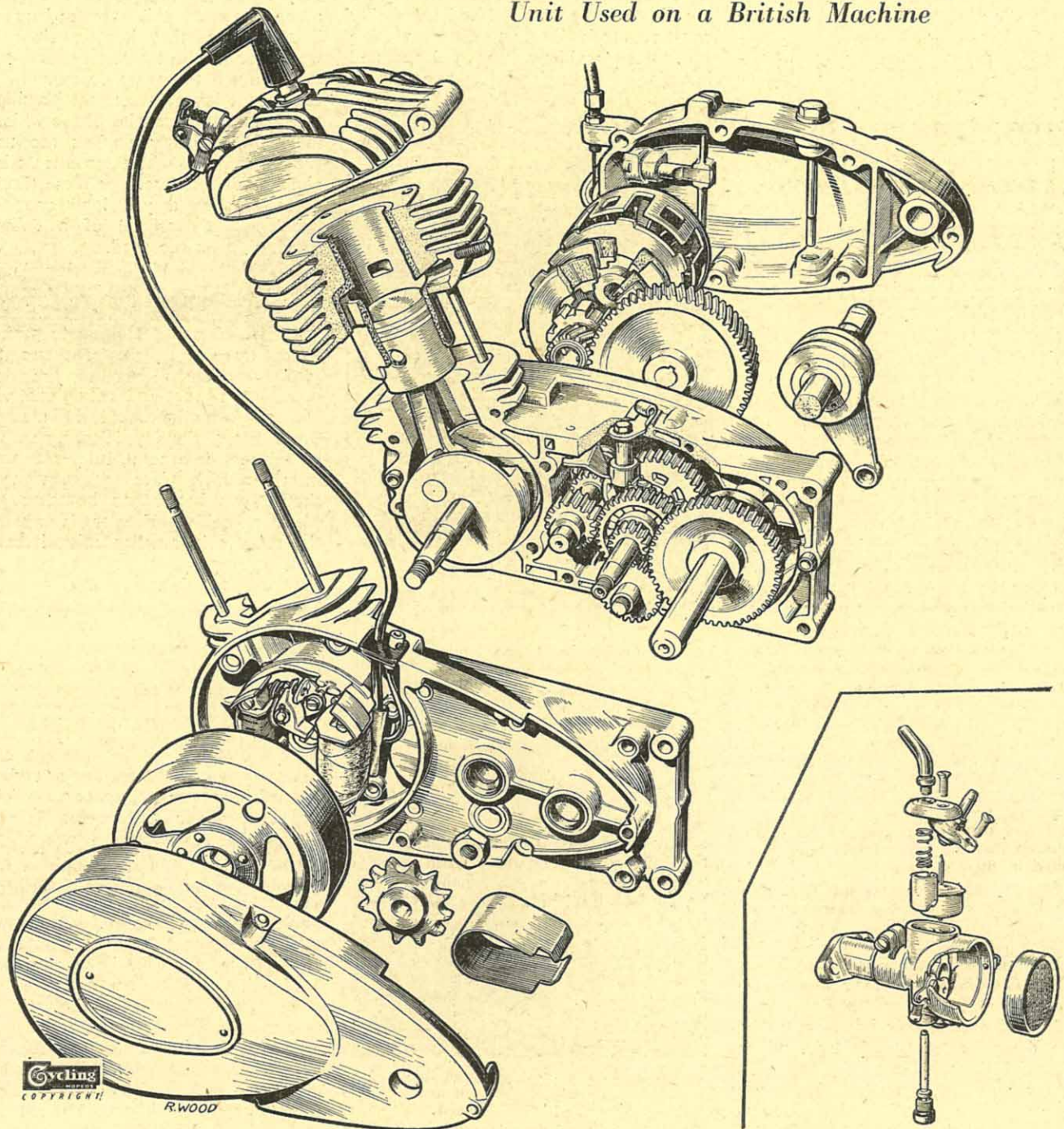


THE REX ENGINE

Internal Details of a German-built Moped Unit Used on a British Machine



POWER unit of the Phillips "Gadabout," as well as of the range of Rex mopeds, and of the projected Dunelt machine, the Rex engine is a 49-c.c. two-stroke developing 2.1 b.h.p. at 6,000 r.p.m. and running on a compression ratio of 6.8 to 1. It hails from a German factory long famous on the Continent for precision engineering.

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Its features, seen in this CYCLING exploded drawing, include a chill-cast aluminium alloy cylinder with a cast-iron liner, unusual in that the porting is fabricated integrally with the bore.

In unit is a two-speed gearbox, driven by helical gears, and the pedalling gear is also in-built, with a roller-wedge type of free-

wheel mechanism. There is a back-pedalling trip operation for the rear brake.

An unusual aspect of the carburetter is the use of a central spray tube in place of a needle jet.

Ignition is supplied by a Bosch six-volt fly-wheel magneto-generator which has a 17-watt lighting capacity.

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