

Hercules Engine News

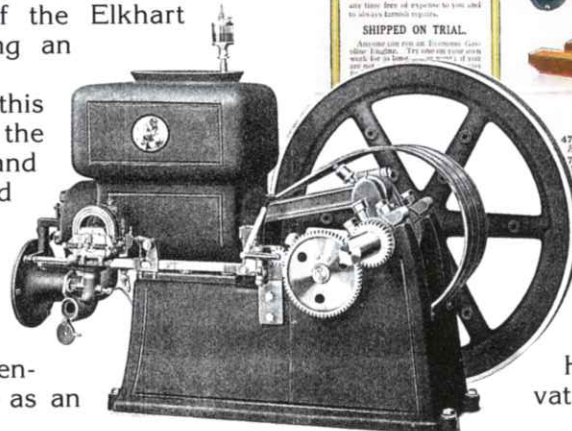
By Glenn Karch

Elkhart Magneto



At the very beginning of the Hercules/Economy Model E gas engine era, there were several differences between engines. Additionally, there is one difference that is quite interesting. The early Hercules brand engines with the sheet metal crank guard were available with the more common style Webster magneto as an option. There is no mention made of the Elkhart magneto being an option.

During this same time, the Economy brand engines offered in the Sears Roebuck catalogs were available with the Elkhart low-tension magneto as an



6
Horse
Power

Economy Gasoline Engine

\$102.95
Our Price

WE GUARANTEE
Economy Gasoline Engines to give you the service you have a right to expect. That there are made of the best materials in engine making, that they are completely mechanical in their use and that they will develop their full rated horse power according to the test. We guarantee to repair defective parts of any time free of expense to you, and to always furnish repairs.

SHIPPED ON TRIAL.
Accept our free six-month trial. If you are not satisfied, return the engine to us free of charge.

SAVE THE FREIGHT.
Economy Gasoline Engines are shipped in the shortest possible time and we make you practically no freight charge, as all the freight you have to pay is that charge from the warehouse to your home. In the case of our National City, Miss. Warehouse, an engine shipped to Chicago, the charge will only be about \$1.00, an additional amount of freight.

SAME PRICE ANY WAREHOUSE.
The price of our Economy Gasoline Engine is the same from any of the warehouses named below: Chicago, Ill.; Boston, N.Y.; St. Louis, Mo.; Philadelphia, Pa.; Evansville, Ind.; St. Paul, Minn.; and the price is the same from any of our other warehouses. The price of our National City, Miss. Warehouse is \$112.95, including freight to Chicago, and \$102.95, including freight to any other warehouse.

PRICES.
47760 6-Horse Power Gasoline Engine with Standard Puller and Equipment. Shipped from warehouses as shown below. Price... \$102.95
47761 6-Horse Power Gasoline Engine with Standard Puller and Magneto. Shipped from warehouses as shown below. Price... \$112.95

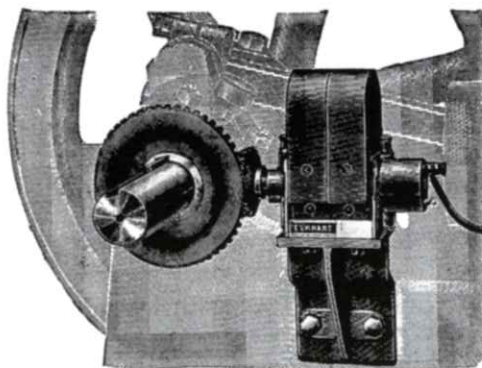
option, as noted at the bottom of the illustration taken from a Sears Roebuck catalog. There is no mention made of the Webster magneto being an option. Historically, Sears Roebuck was more conservative and consequently didn't offer ignition updates as soon as Hercules.

Interestingly, the Economy engines sold by Sears Roebuck apparently were one of the main users of the Elkhart low-tension magneto system. They are seldom seen on other brands of engines.

Glenn Karch is a noted authority on Hercules engines. Contact him at: 20601 Old State Road, Haubstadt, IN 47639; glenn.karch@gte.net

Left: Elkhart magneto illustration. Center: Hercules engine with Webster magneto. Top: Illustration taken from Sears Roebuck catalog showing available Elkhart low-tension magneto option.

ELKHART BUILT-IN MAGNETO. Furnished on 1914 Engines.



The magneto we furnish with the engine is part of the engine. It is properly adjusted and timed when it leaves the factory and should not be changed.

Leave the magneto alone. Do not change anything or take the magneto apart; all the attention the magneto requires is to oil the bearings with a few drops of sewing machine oil every week or ten days.

The magneto is waterproof and is connected to the igniter by water and oil proof cable; it will furnish a sufficient spark to start the engine by simply turning the flywheels as instructed on page 3; no batteries are needed.

When the magneto is put on the engine it is properly timed and the gears are marked with punch marks; two teeth on the side of the big gear and one tooth on the side of the small gear. If for any reason the magneto is removed, be sure to put it back so that the one marked tooth on the small gear goes in between the two marked teeth on the large gear.

Any adjustment of the spark to advance or retard it should be made with the igniter trip and not with the magneto. (See page 6.) If you think the spark does not occur at the right time or you do not get an explosion, do not blame the magneto or change it in any way.