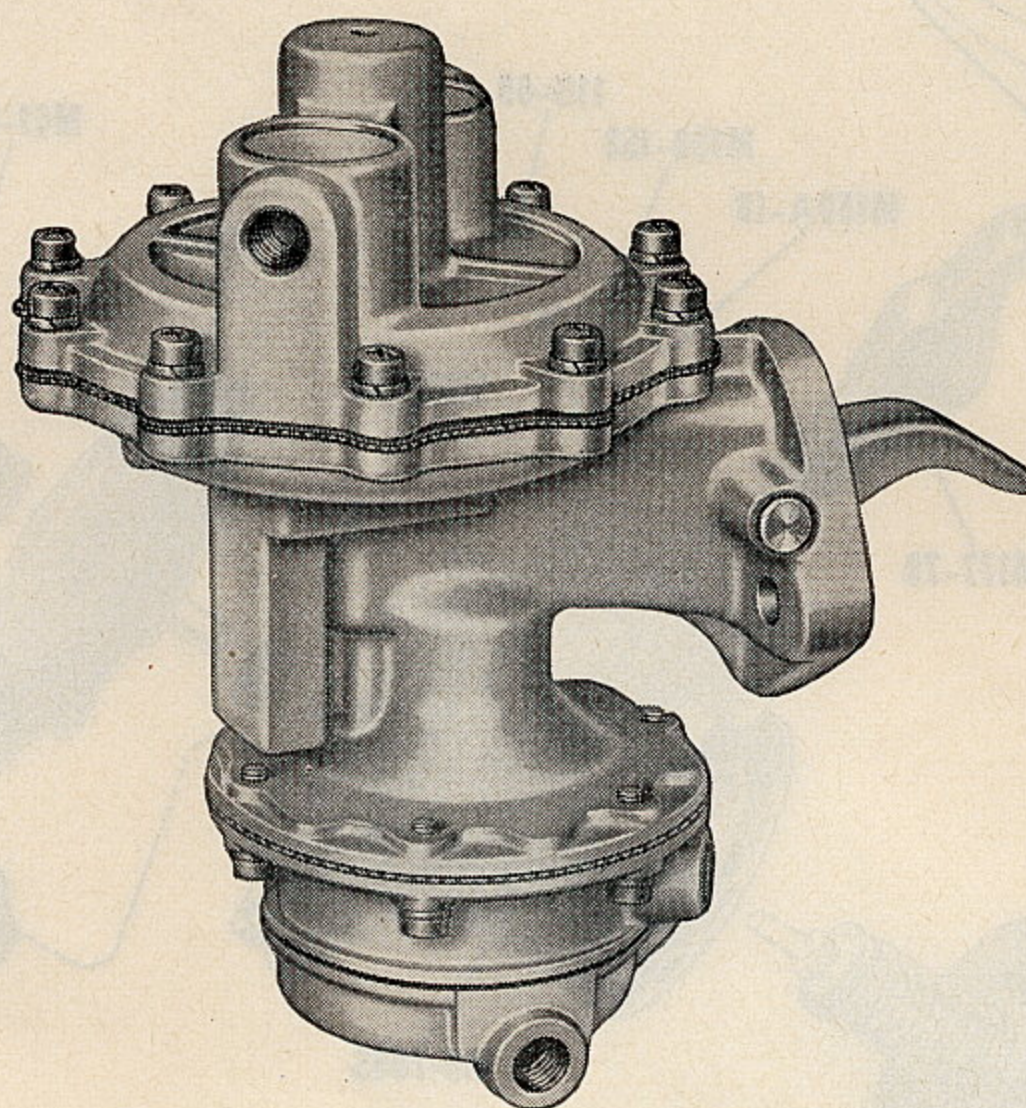


**Mechanical Fuel Pump
(With Booster)**



**KAISER-
FRAZER
"HENRY J"
MODEL K 514
6 Cyl.
1951**

MECHANICAL FUEL PUMP—No. M809S—LIST PRICE \$15.00

A \$3.00 exchange allowance is deducted from list price if buyer turns in old pump.

FUEL PUMP TESTS

On Engine:

1. Volume test; one quart of fuel in one minute or less at 500 RPM engine speed.
2. Vacuum test; at least ten inches (10") Hg. (vacuum) at 500 RPM engine speed.
3. Pressure test; three and one-half pounds (3½ lbs.), P.S.I. pressure minimum to five and one-fourth pounds (5¼ lbs.) P.S.I. maximum at 500 RPM engine speed.

Test number three should be made with a pressure gauge connected to a "T" fitting at the carburetor. The length of the hose on the pressure gauge should not exceed six inches (6"). Inaccurate pressure readings may result if a longer hose is used between the "T" connection and the pressure gauge.

Bench Test:

1. Clamp pump in a vise.
If vise jaws have serrations, use brass shims to protect gasket surface of pump flange.
2. Hook up a mercury manometer or suitable vacuum gauge to intake side of pump.
3. Actuate pump lever full stroke at approximately 60 strokes per minute. The pump should pull at least 10" of mercury.

The M809S mechanical fuel pump will deliver twenty-five gallons (25) per hour at 1,000 RPM engine speed.

VACUUM PUMP TEST

On Engine:

1. With engine idling, turn on the vacuum windshield wiper to make certain the wiper motor is in operating condition.
2. Disconnect the line to vacuum pump at the intake manifold and plug the manifold fitting hole.
3. With motor running, windshield wipers should operate. If they slow down a trifle, but do not stop, the pump is satisfactory.

