

FRAZER

'HENRY J''

MODEL K 514

6 Cyl.

1951

Mechanical Fuel Pump (With Booster)

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 carbureter. 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:

- 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.

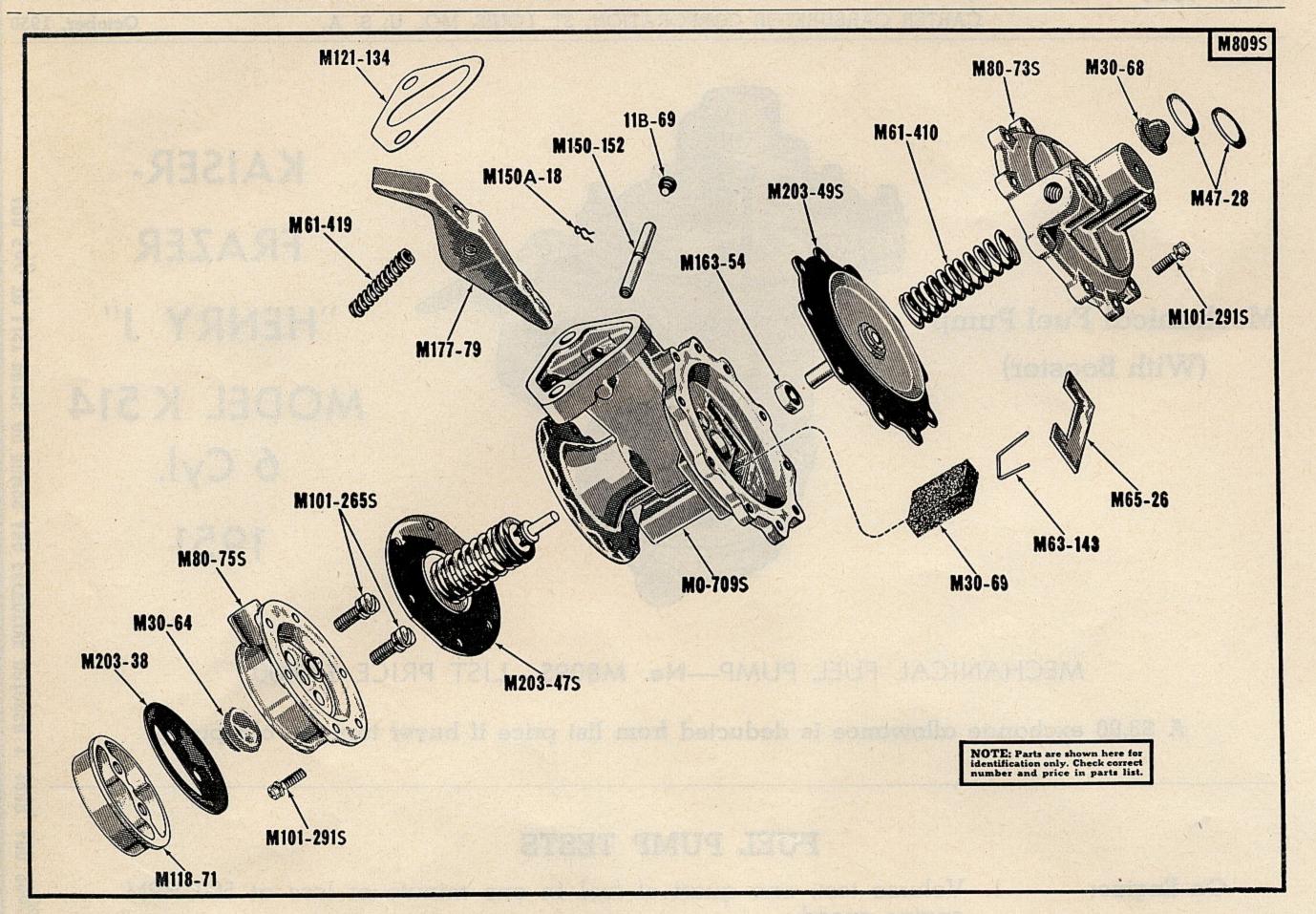
The M809S mechanical fuel pump will deliver twenty-five gallons (25) per hour at 1,000 RPM engine speed.

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.

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M809S — MECHANICAL FUEL PUMP — LIST PRICE \$15.00
When servicing, use Repair Package No. M20013, Price \$4.35
*Parts so marked are included in Repair Package

#Cam lever shaft seal plug M30-64 Fuel strainer M30-68 —Vacuum strainer M30-69 —Breather vent filter M47-28 —Welsh plug M61-410 —Vacuum diaphragm spring M61-419 —Cam lever return spring M65-26 —Breather vent filter retainer spring M80-73S —Vacuum valve housing assembly M80-75S —Pump valve housing assembly M101-265S Valve housing cover attaching screw and washer assembly M101-291S Valve housing attaching screw and washer assembly M118-71 Valve housing cover M121-134 *Flange gasket M150-152 Cam lever pin M150-18 Cam lever pin retainer M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly **Pump diaphragm assembly **Cate of the strainer **	Part No.	Part Name	List F	Price
#Cam lever shaft seal plug M30-64 Fuel strainer M30-68 —Vacuum strainer M30-69 —Breather vent filter M47-28 —Welsh plug —Cam lever return spring M61-419 —Cam lever return spring M65-26 —Breather vent filter retainer spring M80-73S —Vacuum valve housing assembly M80-75S —Pump valve housing assembly M101-265S Valve housing cover attaching screw and washer assembly M101-291S Valve housing attaching screw and washer assembly M118-71 Valve housing cover M150-152 Cam lever pin M150-154 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly *Pump diaphragm assembly **Cather the strainer (2) **Cather the seal plug **Cather the strainer (2) **Cather the seal plug **Cather the strainer **Cather the seal plug **Cather the strainer **Cather the seal plug **Cather the seal plug **Cather the strainer **Cather the strainer **Cather the seal plug **Cather the strainer **Cather the st	Part No. MO-709S	—Pump body assembly	\$	54.2
M30-68 —Vacuum strainer M30-69 —Breather vent filter M47-28 —Welsh plug	- 11B-69	*Cam lever shaft seal plug	Line .	.02
M47-28 —Welsh plug	M30-64	Fuel strainer	030300 	.15
M47-28 —Welsh plug	M30-68	-Vacuum strainer	3534 ST	.15
M61-410 —Vacuum diaphragm spring M61-419 —Cam lever return spring M63-143 —Breather vent filter retainer spring M65-26 —Breather vent plate M80-73S —Vacuum valve housing assembly M80-75S —Pump valve housing assembly M101-265S Valve housing cover attaching screw and washer assembly M101-291S Valve housing attaching screw and washer assembly M118-71 Valve housing cover M121-134 *Flange gasket M150-152 Cam lever pin M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly —*Pump diaphragm assembly	M30-69	-Breather vent filter		.10
M61-410 —Vacuum diaphragm spring M61-419 —Cam lever return spring M63-143 —Breather vent filter retainer spring M65-26 —Breather vent plate M80-73S —Vacuum valve housing assembly M80-75S —Pump valve housing assembly M101-265S Valve housing cover attaching screw and washer assembly M101-291S Valve housing attaching screw and washer assembly M118-71 Valve housing cover M121-134 *Flange gasket M150-152 Cam lever pin M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly —*Pump diaphragm assembly	M47-28	-Welsh plug	(2)	.0!
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M80-75S —Pump valve housing assembly M101-265S Valve housing cover attaching screw and washer assembly M101-291S Valve housing attaching screw and washer assembly M118-71 Valve housing cover M121-134 *Flange gasket M150-152 Cam lever pin M150-418 Cam lever pin retainer M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly	M65-26	-Breather vent plate		.08
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M101-265S Valve housing cover attaching screw and washer assembly (2) M101-291S Valve housing attaching screw and washer assembly (16) M118-71 Valve housing cover (16) M121-134 *Flange gasket (17) M150-152 Cam lever pin (17) M150A-18 Cam lever pin retainer (17) M163-54 —*Vacuum oil seal (17) M167-79 —Cam lever (17) M203-38 *Outlet airdome diaphragm (18) M203-47S —*Pump diaphragm assembly (16)	M80-75S	—Pump valve housing assembly		3.00
M118-71 Valve housing cover	M101-265S			
M121-134 *Flange gasket M150-152 Cam lever pin M150A-18 Cam lever pin retainer M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly				.0:
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M150A-18 Cam lever pin retainer M163-54 —*Vacuum oil seal M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly		*Flange gasket		.0:
M163-54 — *Vacuum oil seal — Cam lever — M203-38 *Outlet airdome diaphragm — M203-47S — *Pump diaphragm assembly — M203-47S — M	141120-127	Cam lever pin	TOTAL STATE OF THE PARTY OF THE	.10
M177-79 —Cam lever M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly	M150A-18	Cam lever pin retainer		.0
M203-38 *Outlet airdome diaphragm M203-47S —*Pump diaphragm assembly	M163-54	-*Vacuum oil seal		.4
M203-47S —*Pump diaphragm assembly	M177-79			.90
M203-47S —*Pump diaphragm assembly				.30
3 5000 400 917 1: 1	M203-47S	—*Pump diaphragm assembly		2.00
M203-495 — Vacuum diaphragm assembly	M203-49S	—*Vacuum diaphragm assembly		2.00

⁻Parts so marked are new and listed for first time.

NOTE: Small figures in parentheses, preceding list price indicate number of pieces used in one fuel pump. Where no figure is shown, only one is used.