

HARDI ELECTRIC FUEL PUMPS

DESCRIPTION

The Hardi electric fuel pump is a pulsating diaphragm type. Breaker points are mounted on the magnet housing, beneath a transparent plastic cap. Pump diaphragm and its spring are located between magnet housing and valve housing, which contains inlet and outlet fuel valves along with the filtering screen.

OPERATION

With ignition on, magnet is energized and pulls armature (to which diaphragm is attached) against the pressure of diaphragm spring. At the end of this stroke, a pressure rod, connected to the diaphragm, trips the breaker point mechanism, opening breaker points. Electric current ceases to flow thru magnet and diaphragm spring tension prevails, pushing diaphragm back and forcing fuel out of pump. Since spring tension determines fuel delivery pressure, it must not be altered. At end of delivery stroke, contacts close, magnet is energized, and cycle repeated.

PARTS REPLACEMENT

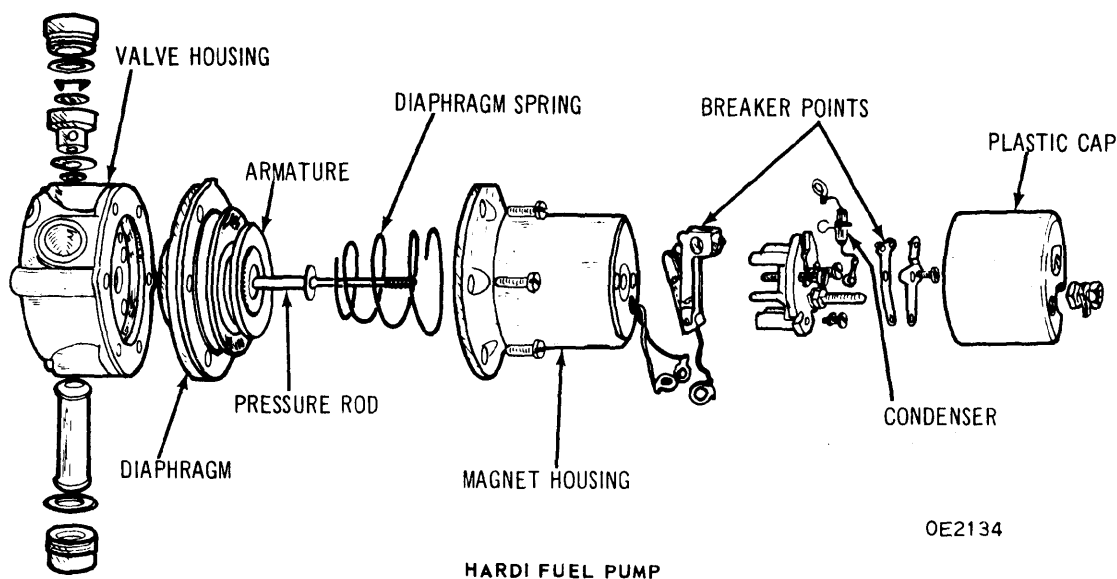
Diaphragm

With fuel pump removed from vehicle, remove six valve housing retaining screws and remove housing. Remove dia-

phragm by unscrewing it counterclockwise, then pulling it (along with armature and spring) from magnet housing. To install, place spring on pressure rod with small coil against the armature. **CAUTION** - Do not alter spring tension. Install diaphragm with spring into magnet housing, screw pressure rod so far into the lower part of the rocker assembly that contacts will no longer open when diaphragm is pushed up. Now screw diaphragm and pressure rod until points will just begin to open, when diaphragm is pushed up.

Breaker Points

With fuel pump removed from vehicle, remove valve housing retaining screws and remove housing. Remove diaphragm, unfasten and remove plastic cap. Remove adjusting screw from upper part of breaker assembly as well as condenser and breaker assembly retaining screws, then remove condenser and upper part of breaker assembly. Remove hinge pin from lower part of breaker assembly and remove lower part. Lubricate breaker before installation, and adjust breaker gap after installing. Push diaphragm up so that points are open, then adjust gap to .05" (1.2 mm) using the adjusting screw. **NOTE** - The adjusting screw must engage the contact spring.



OE2134

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