Hercules Engine News

Including Economy, Arco, Jaeger & Thermoil

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In the continuing story about fuel mixers used on Hercules built engines, five gasoline only mixers are described here.

When the log saws made their debut in the late teens, a special cast iron mixer was used on some of them in place of the more traditional "J" type mixer. These special fuel mixers had a combination diaphragm-check valve built into the barrel shaped part of the mixer body. This prevented fuel from running through the mixer when the saw and engine were set on a steep angle. The diaphragm lifted up during the intake stroke of the engine thus allowing fuel

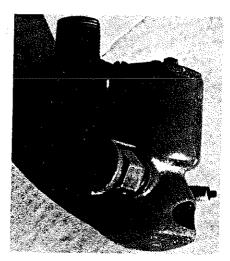


Fig. 1

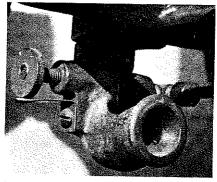


Fig. 3

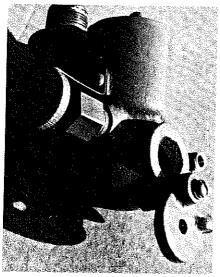


Fig. 2

to be drawn in. In figure 1 is the early version with no choke plate. In figure 2 is the later version with the traditional shaped choke plate.

The 1½ HP Model N had a smaller version of the "J" type fuel mixer. Usually it had no choke plate. The mixer screwed into the bottom of the head as shown in figure 3. The very early 1½ HP Model N had a similar appearing mixer

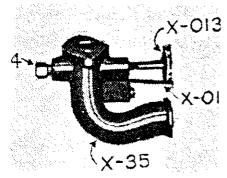


Fig. 4

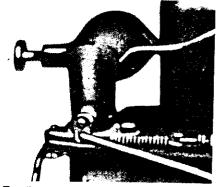


Fig. 5

cast as an integral part of the head. This latter type is rare and no picture or diagram was available.

The Model XI engines built in 1928 and 1929 had a modified "J" type mixer with no choke plate. It attached to the bottom of the head by means of a flange and two bolts. It is shown in figure 4.

The last gasoline mixer to be used on the Hercules built engines was the JI model throttling governed engine built from 1930 to 1933. It had a spring loaded air damper on the intake similar to that used on several other brands of throttling governed engines. An example is shown in figure 5.