McCULLOCH

SERVICE BULLETIN #1124

SUBJECT **CHANGE IN BREAKER POINT CONFIGURATION**

MODEL **1-71, 1-81, 1-81HD** DATE **2/23/61**

To help eliminate ignition troubles caused by dirty, misaligned breaker points, a new Breaker Assembly, P/N 55768, is available for service replacement for the model 1-71, 1-81 and 1-81HD engines. The moveable arm contact of this new breaker assembly, has a convex surface (see figure 1).

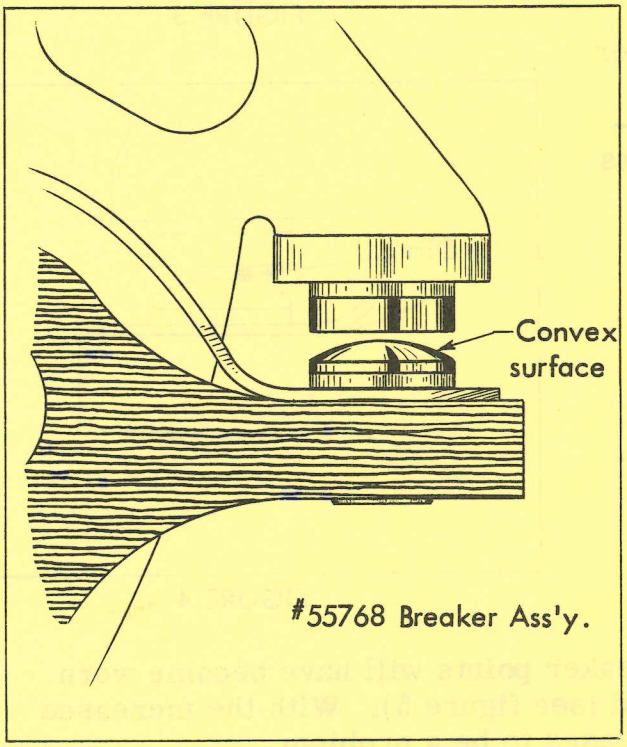


FIGURE 1

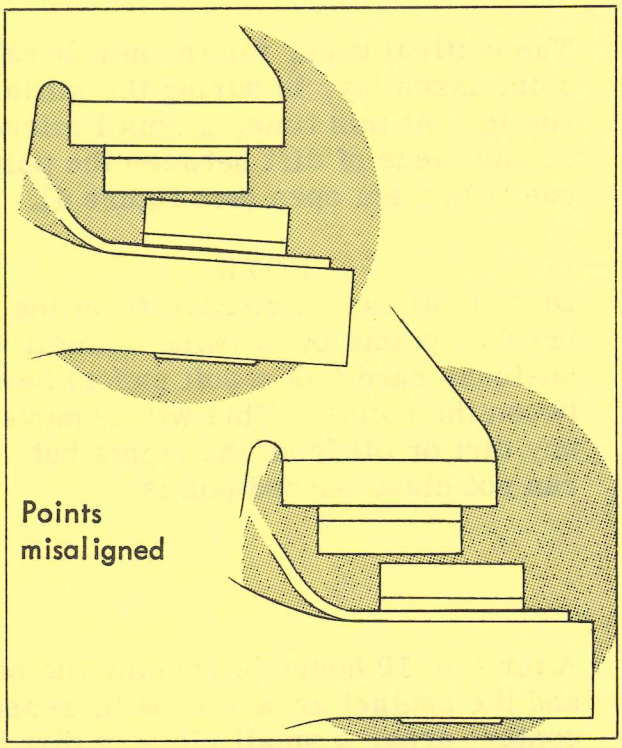


FIGURE 2

The points of the old style breaker assembly have flat surfaces and the points must be perfectly aligned or the contact area will be reduced (see figure 2).

Reducing the contact area concentrates the coil current in a small area forming an impedance or resistance to the coil current. This impedance prevents the coil primary from receiving the full amount of current available and results in a weaker spark at the spark plug. A second fault of misaligned breaker points is the difficulty in setting the breaker point gap correctly.

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The new Breaker Assembly, P/N 55768, makes it easier to set the breaker point gap and misalignment of the breaker points will not cause trouble. Even if the breaker points become misaligned, the contact area will stay constant due to the convex surface of the moveable breaker point (see figure 3).

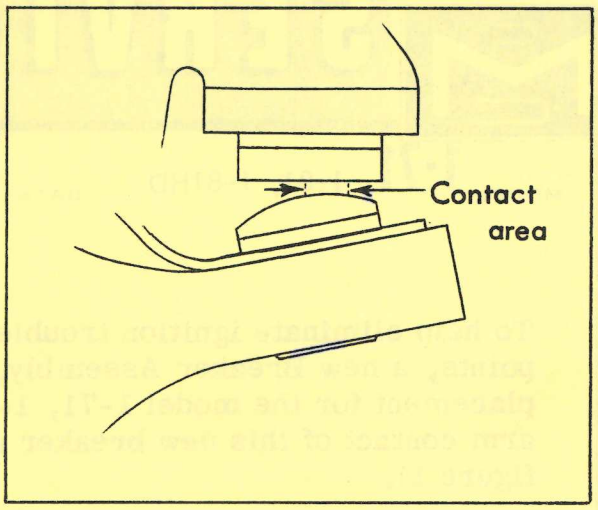


FIGURE 3

The critical time, for the new breaker point assembly, is during the initial run in. At this time, a small microscopic piece of dirt between the points can hold them open (see figure 4).

NOTE

Dirt or oil can be cleaned from the breaker points by drawing a small business card (not a soft paper) between the points. This will remove any dirt or oil from the points but can not clean burned points.

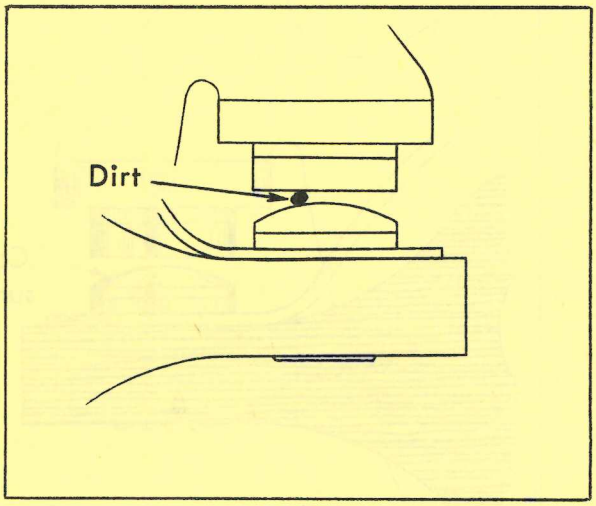


FIGURE 4

After 8 to 10 hours of running the breaker points will have become worn and the contact area will be increased (see figure 5). With the increased contact area, a small piece of dirt ceases to be a problem.

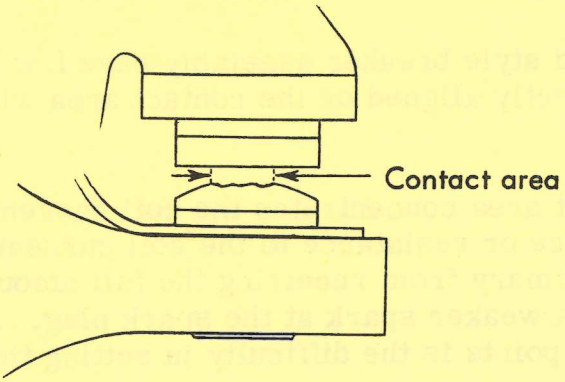


FIGURE 5