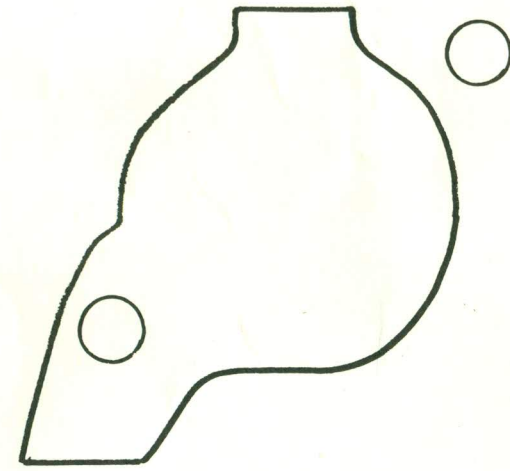
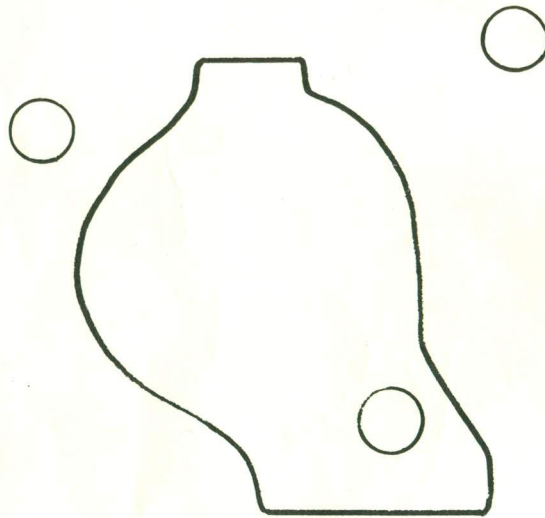


6047



## INSTALLATION INSTRUCTIONS

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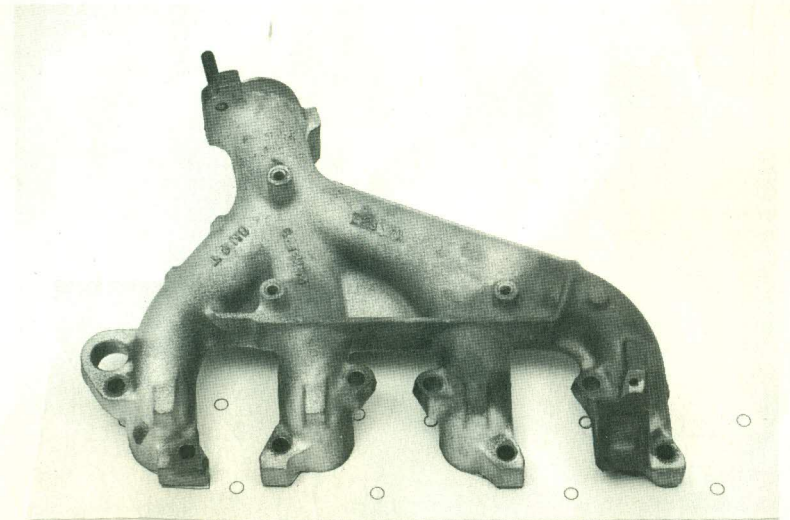
OFFENHAUSER DUAL PORT  
INDUCTION SYSTEM/CHEVROLET VEGA

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READ CAREFULLY **BEFORE STARTING** INSTALLATION

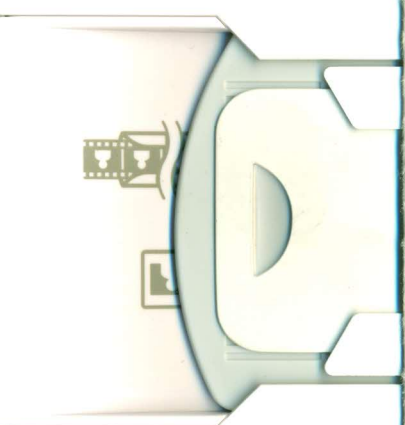
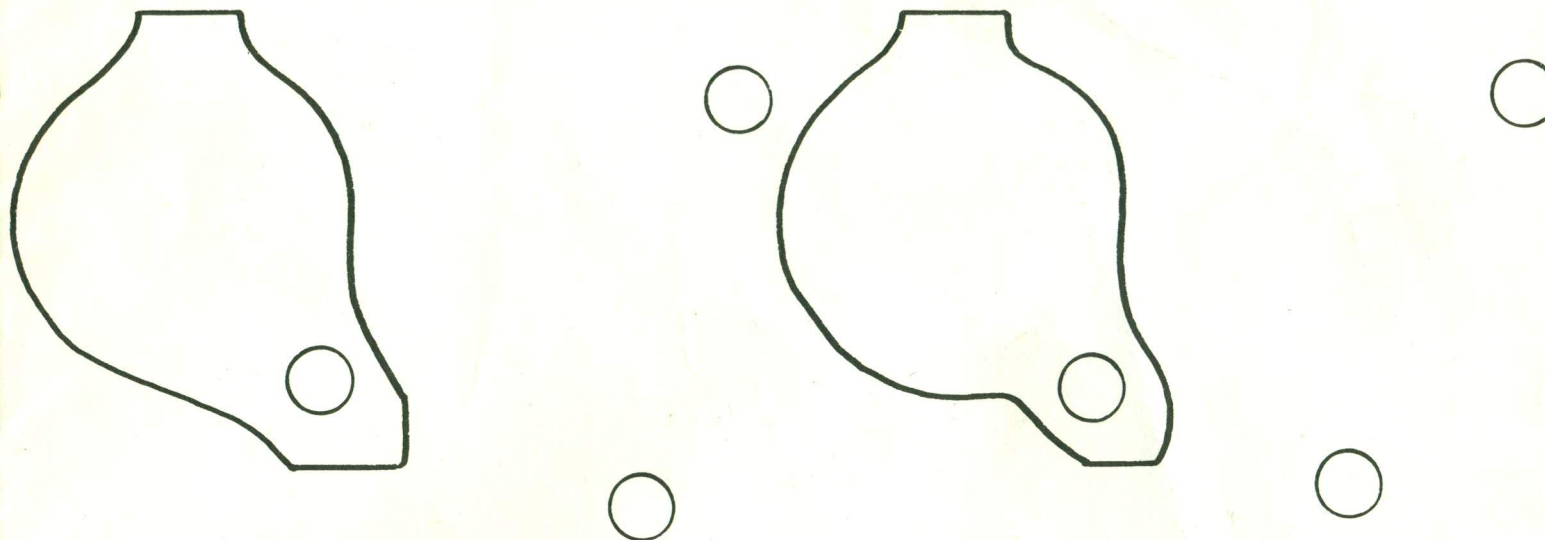
We have prepared this instruction sheet so as to make the installation of your new Offenhauser manifold an easy procedure. Read it through carefully and you'll see why we have prepared it, and then follow the installation steps outlined.

Due to the design of the Vega engine, the intake and exhaust ports are located in extremely close proximity to



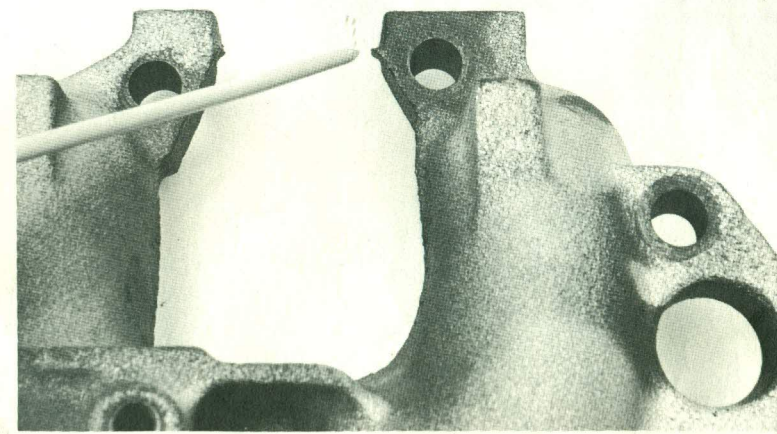
# 1

TEMPLATE



each other. This design by Chevrolet has made it imperative that we maintain precision manifold casting and high quality control to assure you of a perfect fit. But even with this care, we have discovered through working on many Vega engines that there are slight differences (due to Chevrolet's high production volume) in the exhaust manifold castings. Variations in these castings, plus casting "flash" and the closeness of the ports, make it mandatory that you make use of the following installation instructions:

1. Remove the stock intake manifold and then remove the cast iron exhaust header.
2. Tape this instruction sheet to a flat table and align the exhaust header to perfectly match the template above (photo # 1). Every mounting hole should align perfectly. Now, make note of any overhang of the casting and flash as compared to the template. The flash (photo # 2) and overhang must be filed or ground off.
3. When step # 2 has been completed, take your new Offy manifold and carefully lower it straight down onto the tem-

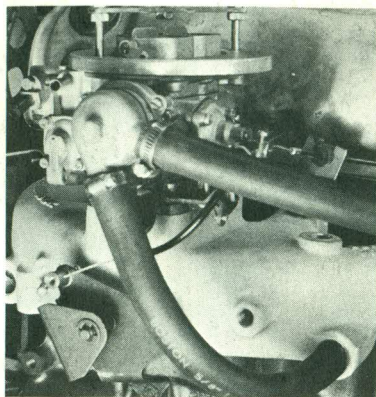
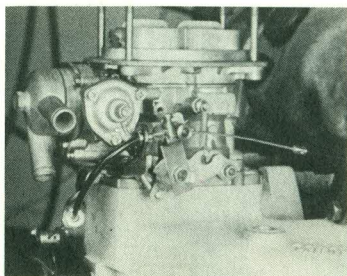


# 2

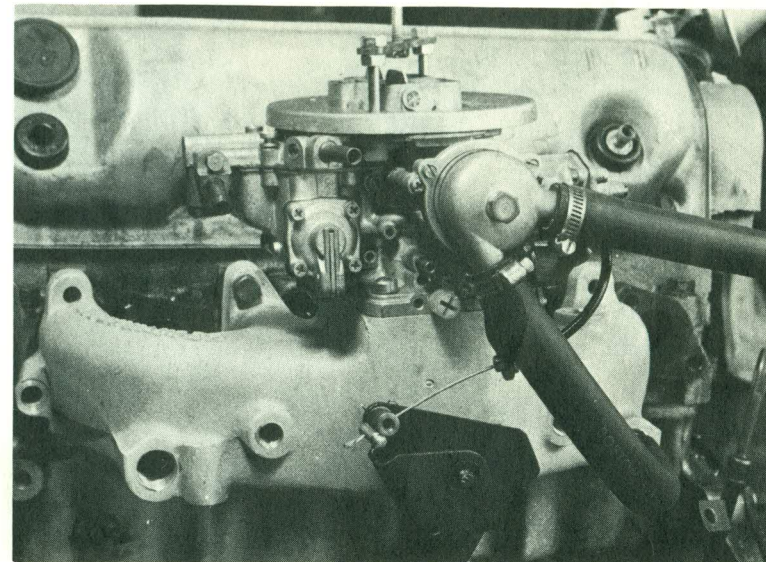


D LINE

Drg. #3



Drg. #4



#4

This kit contains everything you need to convert the stock linkage to 2 barrel operation.

1. Remove the stock linkage from the stock manifold.
2. Lever #3978130 must be cut and bent as shown in Drg. #2 and ball removed from automatic transmission only.
3. Now install threaded pin and lever arm for automatic only.
4. Install 3/16" button in new throttle arm, and 1/4" button in kickdown lever. Mount bracket to carb stud as shown in Drg. #1. Install new cable from button on throttle

arm to button on kickdown lever. Now connect throttle cable to new arm on carb for automatic only.

5. On stick shift install 3/16" ball in new throttle arm and connect throttle cable to it.
6. Install throttle return spring as shown in illustration.
7. If your Vega is equipped with automatic transmission, attach kick-down rod.
8. Test linkage by actuating accelerator pedal. Linkage should work smoothly and all butterflies should open fully.
9. Connect heater hose to water choke on carb as shown in Drg. #4.

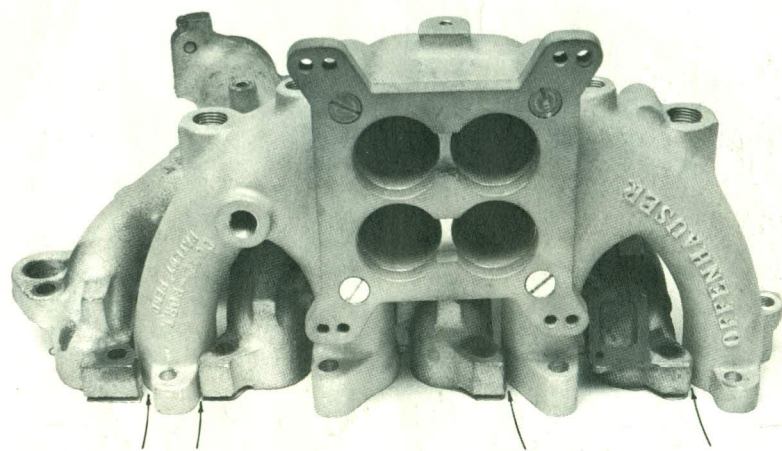
ffenhauser.

**DUAL  
PORT**  
**360**

#### AIR CLEANER 6050

Offenhauser produces a quality, high flow, low profile chrome air cleaner that fits the carburetor flange and under the Vega hood. It also has the hose fitting to accept the stock Vega emission control breather tube.





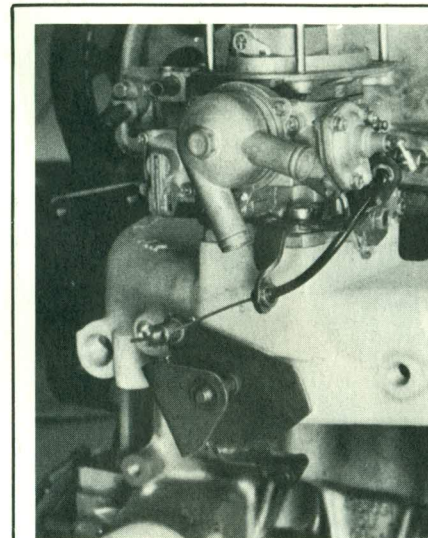
#3

plate as shown in photo #3. Note that it must go straight in without hanging up any place on the header, because when the header is on the engine there's no room to wiggle anything around due to the close port positions. If there are any tight areas such as those possible locations indicated by arrows in photo #3, then do additional filing on the header. Do not file the intake manifold.

4. When a smooth fit has been accomplished between header and intake manifold, they are ready to be installed on the engine. First, tap the intake manifold locating pins (2) further into the head so that they protrude only 1/4-inch. Now, loosely bolt up the header and then install the intake manifold. Start all the bolts before tightening any, and be sure to use the two shorter bolts supplied with the Offenhauser manifold in the two top center positions -- the Offy manifold is narrower at these points than stock.

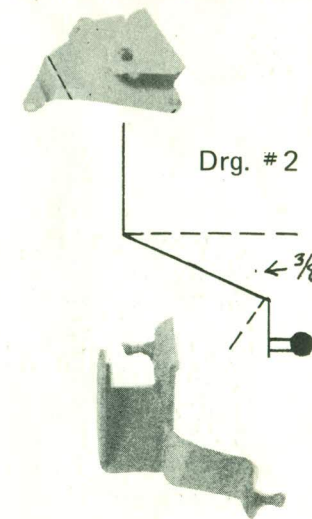
#### CARBURETOR

We recommend using a #1-206 Holley 2-barrel carburetor.



Drg. #1

CUT AS INDICATED BY DOT



Drg. #2

Carburetor must be of a 2-stage, 2-barrel design, with the primary ports of the carburetor over the primary ports of the manifold. The primary carburetor ports can be identified as the ones where the butterflies start to open at the first movement of the throttle arm. The primary ports of the manifold are the ones which go all the way to the bottom of the manifold.

1. Install new throttle arm on carb as shown in Drg. #3.
2. Mount the carburetor and be sure to use gaskets.
3. The 2-barrel carburetor will have only one vacuum outlet, which is on the side facing the head. Install windshield wiper "T" with a short hose hook-up to the carburetor. Plug in the line from the smog control solenoid, and then plug in the hose which goes to the canister located in the left front corner of the engine compartment.

#### THROTTLE LINKAGE

To make an easy and very workable hook-up of the Holley 2/B, 2-stage carburetor, we furnish our #6047-K Linkage Kit.