CONVERTING FROM STROMBERGS TO SU CARBS

The Zenith Stromberg carburetors that came on the later Lotus twin cam engines are a source of frustration very greater than Locas electrics for many Lotus owners. This has been recognized for many years, Medical Committee and the Committee of the Committee of the Committee of Lord Senior Se

throttle opening range. As a relatively recent Lotus Elan owner, I was also plagued by these problems, but I chose not to attempt to make a silk purso out of a sow's ear. Instead, I decided to look into an alternative burseling system. From the rails of the sow of the control of the problems are the companied with the control of the c

emission inclusionations. VISB visa the logical children control to the control t

ready. (Curlo also carries Stromberg spaces). There are to to year of 1856 cathrotters. They are fiscaling needlo-fixed jet find lateral movement, they are fiscaling needlo-fixed jet find lateral movement. The jet in each model is workally adjustable, so that the mixture strength can be adjusted. They were easily converted to fixed meedles by purchasing an inexpensive conversion is to the folding the inseedle and machinist excession is to the folding the inseedle and machinism conversion is to the folding the inseedle and machinism conversion is to the folding the inseedle and machinism conversions.

Since the space between the two carburetors is limited, I found it necessary to mount the SUs with the float bowls on the custide, rather than between the carburetors, as they had been mounted on the Volvo. This required switching their positions, putting the front carburetor on the rear of the engine and the rear carburetor on the front.

Although the switch went smoothly, it resulted in the actuating mechanism for the thrightle butter files being located on the outside, rather than between the carburetors (see photo). However, I found a very simple solution to this problem that allowed me to use the original Lotus throttle linkage and flexible couplings.

age and traces couplings, and any access couplings, and any access couplings, and a committee is a partially hollow devoted that positions the throatin return spring. This extender was removed and diffield completely frevoid, producing a character strength of the couplings of the couplings of the couplings, was not with a haze sex. There is recorded to the appropriate diameter for the character sex of the couplings, was not with a haze sex. There is recorded extended to the root and a sex of the couplings, was not with a haze sex. There is extended extended to the couplings was not with a root sex of the couplings and the couplings and the couplings of the couplings and the couplings and the couplings and the couplings are considered using could now and self-income and the couplings of the couplings and the couplings and the couplings are considered using control core flax.)

The exact dimensions for the brass rod and the hole in the extender are not critical and can be made to fit the application. When I was done, the X₁, the bases not secretal X₁, and the threaded extender, and the original Lotus linkage could be connected without modification. Since both extenders have right hand threads, I made a special locking tall wealther out of mild fashed site locking the second of the second second second ing when the throttle was applied. (It should be need that IMSG calcurations other than AUDS31 may have slightly different throttle staff fittings, and the procedit lange for them may be easiler or

more difficult to develop.) After mounting them, it was obvious that the float bowls, which were level in the Volvo, were not in the Lotus application. Fortunately, the float bowls are adjustable, based on an adaptor grommet that goes between the float bowl and the carburetor. Unfortunately, SU does not make a grommet that will hold the float bowl level when the carburetor is inclined 15 degrees from horizontal, as is the case on the Lotus twin cam. My carburetors had 30-degree grommets. To get each float bowl level at 15 degrees inclination, I off the edge of the slot in the grammet, which locates it in the carburetor body, and placed a 1/2-in, aluminum shim on the opposite side. I then assembled the bowl to the body. When I mounted the works to the engine, it was level on the first try

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The original Lotus air box bolts directly to the carburetors using only four of the original six bolts. The unused holes in the air box, which supplied the vacuum chamber for the Stromberg carburetors, were plugged by making a new mating gasket for the SUs. Additionally, four new holes

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hole. I used a piace of phinoide and glued if in place over the red with Shoe Good. Seek to a time-shoe of the seek of the see

hotwoon the frame and the starter motor and ter-

minated just below the oil pan. No additional securing of this vent tube appears to be required With the new carburetors installed, the question of hood clearance needed to be addressed. A small ball of clay placed on top of each carburetor was used to indicate the amount of clearance available. The rear carburetor had plenty of clearance. The front carburetor was close. In my application, I found that the bonnet would close and. when the engine was running smoothly, there was no hood contact. However, when the engine was turned off, the front carburetor would tap the hood. To eliminate this, I filed a small amount off the plastic knob on top of the piston damper. Additionally, using a body grinder, I removed a small amount of fiberglass from the underside of the hood where evidence of contact was noted. This

provided sufficient clearance for my car. Because of the techniques used for body construction, some cars may need no adjustment for clearance, while others may require more than mine did. At worst case, a modest amount of bodywork on the front of the bulge in the hood may be required. Make sure that the front of the bonnet is adjusted so that it is flush with the bulg.

If it is low, it will reduce carburetor clearance. The SU HS6 carburetor's specifications for application to the Lotus twin cam engine are presented in Table 1. Used carburetors, rebuild kits, and carbs rebuilt to Lotus specification can all be purchased from Joe Curto Inc.

For those who wish to experiment, the needle profiles for two different needles are presented in Table 2. These specifications are for a stock twin an engine with the crossover place and secondary the control of the

Adjusting the carburetors is covered completely in the Haynes manual, but here is a brief description:

Before Installation, the main jet must be centered in the caburetor body with respect to the needle. Start with the jet adjusted to be flush with he top of the jet holder. Loosen the jet locking nut so that the jet holder is free to move laterally. Place the piston with attached needle into the arburetor body and boil down the suction chamber. With the piston resting and fully closing the ven-

SU HS6 CARB SPECS USED ON LOTUS ELAN

Jet 0.100°

Needle 0A8

Suction spring Red

Float setting Front carb — 1/3, Rear carb — 1/3.

NOTE: The different float settings for the front and rear carburetors are to compensate for the upward cant of the front of the engine. The fuel should be approximately level with the main jet when it is failly depressed by the choke mechanism.

TABLE 1