



Single EMPI Carburetor Kit Installation Instructions for P/N: 43-4455, 43-4456

PLEASE READ FIRST!

This kit may require some fabricating during installation. If you do not feel that you have the resources to complete this installation have the work performed by a qualified mechanic.

1. Disconnect the car's battery.
2. Remove the distributor cap, fan shroud, existing carburetor and manifold.
3. The single carb center section manifold is designed to accommodate all of the many engine width combinations and various aftermarket dual port end castings.
4. For this reason you will have to determine the width of your manifold and possibly narrow it. See Photo #1. If you are using EMPI P/N: 3236 end castings there is enough clearance for the metal manifold to go into the end castings. If you are using stock end castings you must cut the tubes both right and left. To determine the widths of the runners, mock up the manifold installation by bolting the manifold support bracket onto the rear fuel pump stud with the shaped end facing up. Sit the manifold on top the brace and put a bolt into the hole to keep it in place for measurement. You are ok with a 1/8" gap between the end casting and the runner on both ends See Photo #2. Also try to have a distance of 1 5/8" between the left edge of the alternator/generator stand and the side of the manifold for clearance between the carb float bowl and the alternator (if one is used) See Photo #3.
5. Assemble the linkage assembly onto the manifold as shown in photos #4 & 5.
6. Slide the boots and clamps onto the manifold along with the heat riser tubes and set the manifold in place by sliding the boots over the end castings and letting it rest onto the manifold brace See Photo #2.
7. If you are using a doghouse cooler and shroud you will need to slide the pre-shaped throttle tube through the hole with the "S" end facing the carb and sit the shroud onto the motor. Now with the tube facing the carb and resting near the side of the manifold, take the angle bracket and nylon clamp and mark where the hole will be on the shroud. Use the long side of the bracket against the shroud. Remove the shroud and drill a #8 hole for the sheet metal screw (furnished) or pop rivet. Fasten the tube to the bracket using the nylon clamp and #10 screw and nut See Photos #6 & 7.
8. Re-install the shroud. Install your heat riser tubes if you intend to run them.
9. Take the carb and remove the throttle control arm, replace it with the new one furnished in the hardware kit See Photos #8 & 9. Assemble the linkage per photo #10 and attach it to the carb throttle control arm.
10. You are now ready to install your carb. Place base gasket on the manifold and secure the carb with the 8mm bolts, washers, and nylock nuts. Connect the linkage to the bell crank on the manifold See Photo #11.
11. Your throttle cable is universal with both early and late model ends. Determine which is applicable for your car and cut off the opposite end. Route this through your car. You can now determine the position of your throttle cable arm, cut your cable to length and attach the cable extender. Tighten it to the bar clamp and install your return spring to the tab on the manifold and the hole in the throttle control arm on the carb See Photo #12
12. You are now ready to re-assemble the remainder of your motor, distributor cap, fan belt, fuel lines, etc. and start your motor.

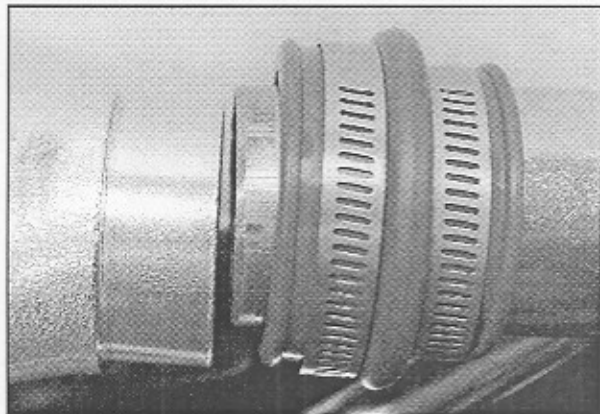


Photo # 2 Manifold 1/8" gap

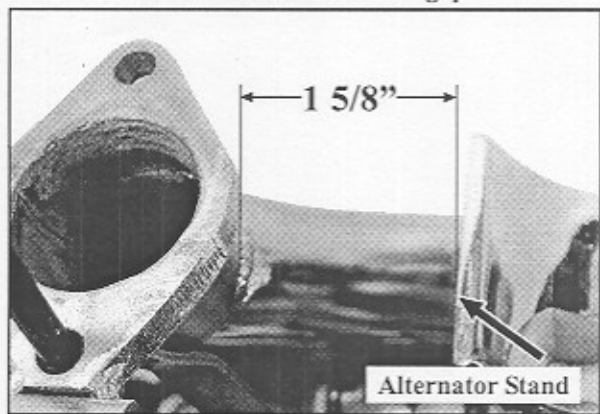


Photo #3 Manifold to stand distance

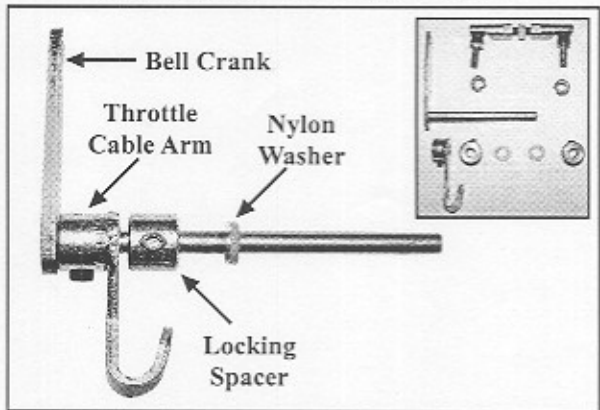


Photo # 4 Linkage Assembly

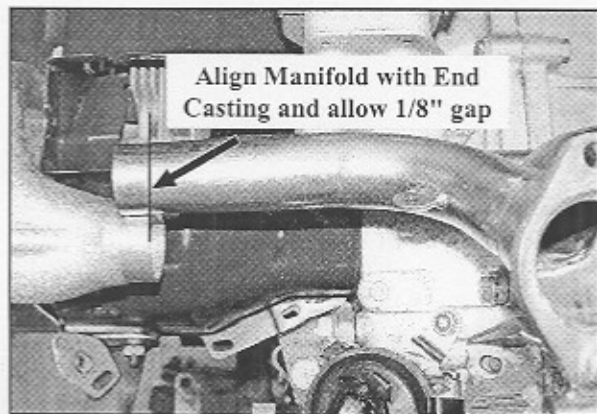


Photo # 1 Narrow Manifold if needed

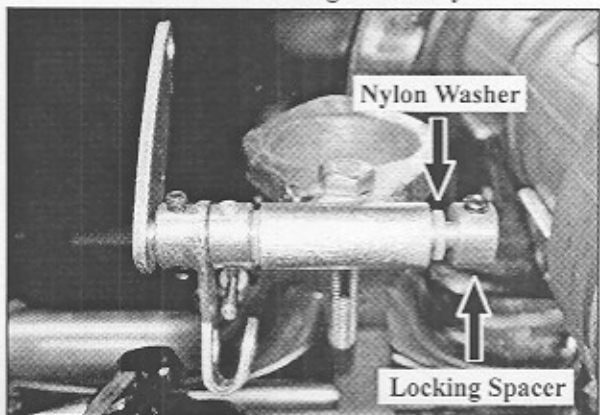
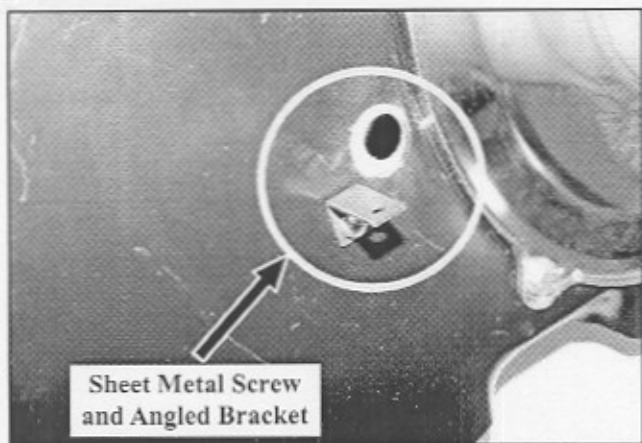
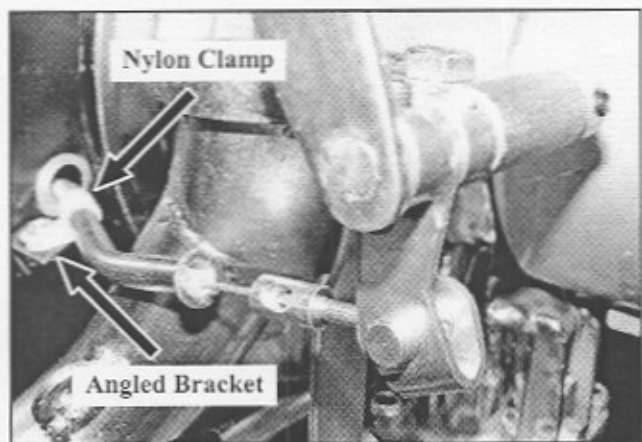


Photo # 5 Linkage on Manifold



Sheet Metal Screw
and Angled Bracket

Photo # 6 Throttle Tube Mount



Nylon Clamp

Angled Bracket

Photo # 7 Throttle Cable End installed

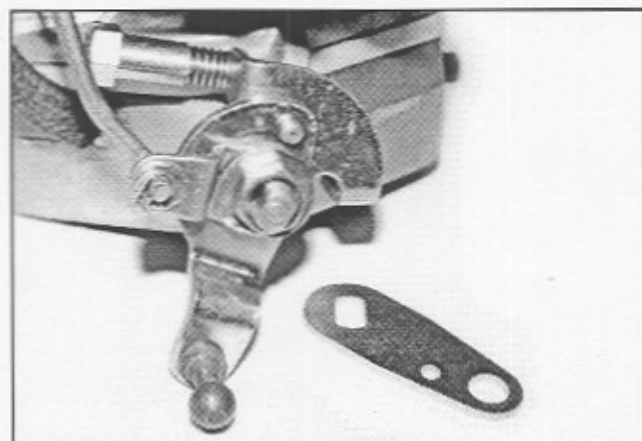


Photo # 8 Original Arm on Carb and Replacement Arm

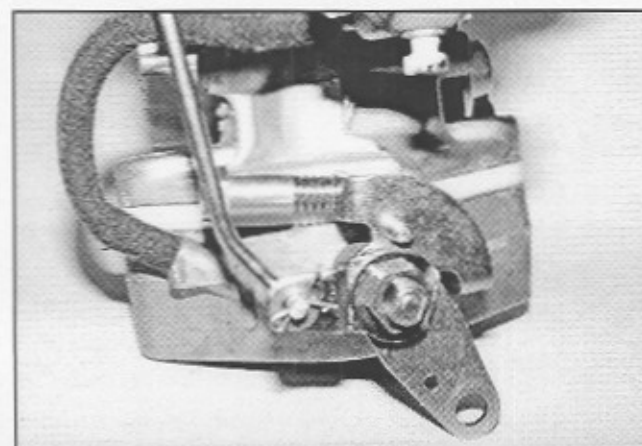


Photo # 9 New Arm on Carb

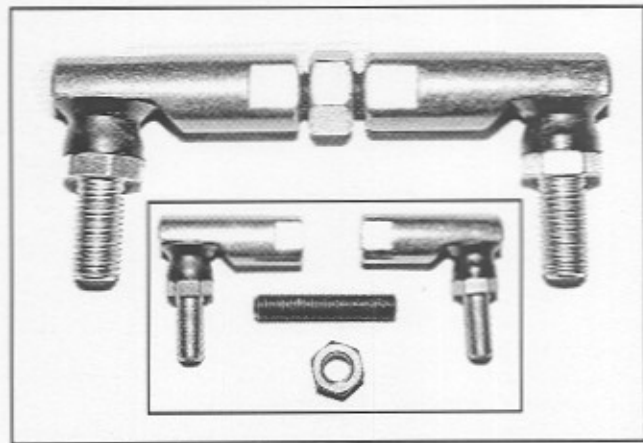


Photo # 10 Assemble Linkage

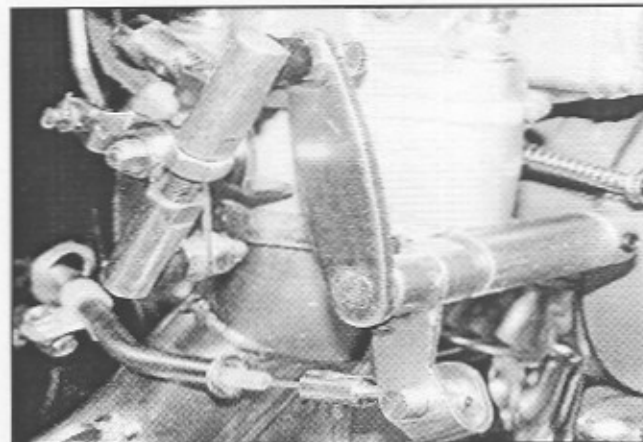


Photo # 11 Carb Linkage to Bell Crank on Manifold

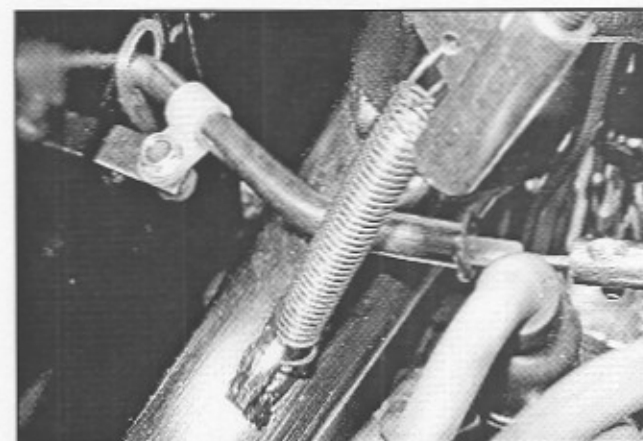


Photo # 12 Return Spring installed

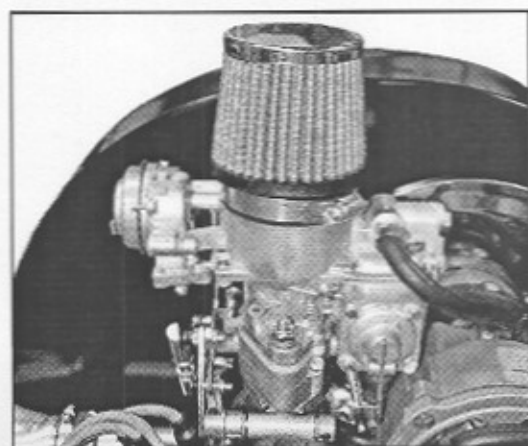


Photo # 13 Complete with Air Cleaner