



## Installation Instructions

### EMPI Dual Carburetor Kit for Dual Port 1600cc Up-Right Engines - #43-4400

1. Disconnect Battery
2. Remove vehicle gas cap.
3. Remove stock air cleaner and attached components.
4. Remove distributor cap and ignition wires making sure that you identify for correct reassembly.
5. Disconnect throttle cable.
6. Remove stock fuel line to carburetor.
7. Disconnect the electric choke and idle cut-off solenoid wires. Be sure to isolate wires ends with electrical tape to prevent shorts/sparks, as these wires will no longer be used.
8. Remove manifold, carburetor and end castings. (For detailed instructions, refer to a good Repair Manual).
9. Insert clean rags in the intake ports and clean the mounting surface using a gasket scraper and or razor blade.
10. Install studs and hose fittings on new manifolds.
11. Install new (taller) air cleaner stud/bracket using 5mm x 30mm bolts and lock washers supplied.
12. Install carb base gaskets and carburetors on new manifolds. Linkage arms on carbs are to face the rear of the vehicle.
13. Remove rags from intake ports and install manifolds with carbs using intake gasket supplied.
14. Remove nut from engine case stud and upper-left backing plate screw.
15. Position linkage bracket onto engine case stud and replace nut (hand tight only). Install 6mm x 20mm screw through upper linkage bracket and into backing plate. Once in position; torque both per Manual recommendations. (Some aftermarket fan shrouds may require a 1/4-20 x 3/4" Bolt, supplied).
16. Install intake crossover tube and clamps using tubing supplied in kit. Cut just enough to connect from one manifold fitting to the other. Tubing should not rest on engine case.
17. Install fuel line from fuel pump to "T" fitting and from each side of "T" to carbs. Use new clamps supplied and be sure each is secure.
18. Assemble linkage X-Rod and install with return spring on passenger side. Bar goes behind alt/gen. stand. Notice that linkage connectors to carbs on each end are adjustable with nuts to lock them in place. Adjust the rod so that it 'pops' on to each carb arm without moving the carb arm on the carb. Be sure to secure the linkage ends position by tightening the nut against the linkage end.
19. Install the actuating rod to the linkage X-Rod on one and the throttle pivot on the other. The throttle pivot is located on the linkage bracket.
20. Install return spring to linkage bracket.
21. Install throttle cable.
22. Install new air cleaners.
23. Reinstall distributor cap and wires.
24. Reinstall fuel cap.
25. Connect battery.
26. Check to see that linkage does not bind and that it returns quickly and easily when released.
27. Crank engine for a few seconds to bring fuel to carburetors. **CHECK ALL CONNECTIONS FOR LEAKS.**
28. Adjust idle mixture screws if necessary.

This kit has been jetted for a basically stock 1600cc engine. Any other modifications to engine may require special jetting and adjustment. If you have any questions consult a professional VW mechanic. An 009 Centrifugal Advance Distributor (#00-9443-B) or equivalent should be used for this application. For appropriate torque specifications on all nuts and bolts, refer to a good VW Manual. If you have installation questions and/or problems, contact your **EMPI** distributor before proceeding.

