

V-Twin Mfg.
BENDIX CARBURETOR, 38MM, ADJUSTABLE, CAST
VT Part No. 35-0060

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

Installation Instruction:

1. Mount new carburetor in place of old Keihin or older Bendix or Tillotson carburetor, using proper studs and mounting hardware. *On new evolution motors using the 014052 carburetor, install the vacuum spark advance tube. Make sure it is plugged if not required. Applies to New 014052 40MM Chrome Plated Carburetor Only.
2. Connect throttle, choke and fuel line. *Included with the new 014052 is an overflow tube. This tube should be run away from the exhaust to the front of the bike. Bikes already equipped with an overflow tube can use the existing tube if in good condition. Check the condition of the old tube to make sure there are no cracks or holes. *A new choke cable bracket and cable/knob assembly will be necessary for installation on all new evolution motors 1985-1988 and 1986-1987 XL 883 & 1100cc models. These new brackets and choke cable assemblies are available in the VT No. 35-9154 accessory kit.

Note: Be sure to install the choke cable with the choke in the open or normal running position. When sure of positive operation, cut off excess cable.

3. It is suggested that a good in-line filter be used to minimize fuel contamination.
4. A velocity stack or air cleaner, can now be installed. If the stock air cleaner is used on the new evolution motors a set of spacers are required between the air cleaner back and the cylinder heads. These spacers are included in the accessory kit VT No. 35-9154.

Caution: Air cleaner screws should be tighten in sequence, alternating each screw until completely tight.

5. Initial settings for the carburetor are as follows. Open the idle adjustment needle one full turn open or out from fully closed. This needle is on top of the carburetor closest to the engine. Now, adjust the main jet or high speed adjustment out approximately four full turns open or out. The lowest or closed position occurs when the tension spring is coil-bound but, not tight.
6. Start the engine and check for fuel leaks. Adjust the idle mixture screw until you obtain the highest smoothest possible idle. Adjust the overall idle speed with the idle top screw on the throttle lever.
7. With idle speed and mixture adjusted, high speed mixture can be adjusted by running engine up through first or second gear to 4500 RPM or above. Overly rich mixtures respond by breaking up or running roughly at high RPM. To lean out the main jet, turn the main jet adjustment needle in approximately 1/2 turn at a time until the engine responds by pulling cleanly through the high RPM ranges in first or second gear.
8. After the high speed mixture is adjusted, it may be necessary to slightly readjust the idle mixture the idle mixture.
9. Changes in cams, exhausts or displacements may require idle or main jet readjustments but the range of adjustments should be enough to accommodate a wide variety of engine sizes and modification levels.
10. 1340cc Engines - In some cases a lean operating condition may be experienced (white spark plug on the electrodes) with these engines even with the main jet in the full open position. To eliminate this problem, the installation of P/N C66-184-2 main jet discharge tube is recommended. This part can be ordered through your ZENITH Carburetor Dealer.

Parts List.

Item	Description
1	Idle tube
2	Idle adjusting needle
3	Idle adjusting needle spring
4	Idle tube gasket
5	Throttle body
6	Throttle body plate
7	Throttle plate screws & lockwashers
8	Flange Gasket
9	Throttle shaft seal
10	Seal retainer
11	Accelerating pump lever
12	Pump lever screw
13	Choke shaft seal
14	Seal retainer

Item	Description
15	Choke Shaft & lever
16	O-ring
17	Washer
18	Main jet & discharge tube
19	Accelerating pump
20	Fuel bowl
21	Plug
22	Float
23	Float Spring
24	Float Axle
25	Check Valve
26	Friction plate
27	Friction pin spring
28	Fuel needle valve

Item	Description
29	Bowl to body gasket
30	Choke plate
31	Choke Plate screws & lockwashers
32	Choke shaft hole plug
33	Throttle shaft seal
34	Seal Retainer
35	Throttle shaft & lever
36	Idle stop screw spring
37	Throttle stop screw
38	Throttle return spring
39	Spring retainer

