

Adjusting Your Linkert Carburetor

1. With motorcycle off, set high speed (front) needle out (counter clockwise) 1 ½ turns and low speed (rear) needle out (counter clockwise) 3 ½ turns from lightly closed.
2. Start motorcycle and run until warm (1-2 minutes). Make sure that choke is off.
3. With motorcycle upright, advance spark fully and close throttle. With a medium screwdriver, raise the idle speed to a fast idle (engine should be running at approximately 800-1,000 RPM). See diagram of idle speed adjustment on back of page for details.

Section A (low speed adjustment):

With spark advanced fully and throttle opening fixed by idle screw, turn low speed needle closed (clockwise) a "click" at a time. Initial setting is "rich". As you "lean" the low speed idle circuit by closing off the fuel flow, the engine RPM will climb. Continue closing the needle until further closing of the needle doesn't raise RPM but, plateaus and causes the motor to quit or slow down.

Note where maximum RPM occurs and set the low speed needle 3 clicks richer (counter clockwise) from this point.

High speed adjustment (continued from above):

Leave spark advanced, rapidly twist the throttle ½ way open and quickly close the throttle (listen to the throttle response). Close the needle 1 click and repeat the procedure until on opening the throttle, the motor begins to "hesitate". Richen the high speed needle 5 clicks from this point.

Readjusting the low speed circuit:

Because the low speed circuit "feeds" off of the high speed circuit, go back to the low speed adjustment (section A) and readjust the needle for 3 clicks richer (counter clockwise) from maximum RPM. *The adjustment will have changed slightly because you changed the fuel supply by closing off the high speed needle.*

Final idle speed adjustment:

Retard the spark fully. With a screwdriver, lower the idle speed to some slow RPM (at your discretion) just above the motor quitting (see diagram in step #3 above).

Courtesy of your friends at American Indian Specialists Fullerton, California.

Top View of Idle Adjustment (carburetor)

