

CO Series 2500 Motorcycle Road Testing

The CO Series 2500 with the optional printer is designed to go on the road where good diagnosis begins. The following information explains how this is done with the Blanke Industries CO analyzer.

Insert the probe into the exhaust pipe and secure it with the bungee cord around a frame member and through the metal bracket supporting the probe handle so it will not move or fall out of the exhaust pipe.

Secure a tank bag large enough for the analyzer, water separator and sample hose to fit inside it. A Marsee “Mighty Mini Tankbag-Magnetized”, P.N. RM-3002 is recommended. Place the analyzer in the tank bag. Connect the sample hose to the analyzer and place the water separator so the arrow showing flow direction is pointing to the top of the analyzer.

Fasten the remote switch tightly below the grip on the left handle bar using the Velcro strap on the switch enclosure. The switch button should be comfortably under the riders left thumb with the remote switch enclosure away from the clutch lever. The wire and strain relief from the switch should point toward the steering head. Then plug the connector of the remote switch into the analyzer.

Use the supplied Velcro straps to take up any slack from the hose and the remote switch cable to insure a loose hose or cable cannot be melted or get in any moving parts of the motorcycle - like the wheels.

Recommended Testing Procedure

Before road testing, set idle at best smooth running condition using mixture and idle speed adjustments. Now press Switch 1, saving Low Idle CO.

Speed engine up to between 2500 and 3000 rpm, lower on big twins, and press Switch 2, saving High Idle CO.

Data Logging

To initiate data logging for a road test, press Switch 3. The two green LEDs on the analyzer and the remote switch turn on and stay on indicating data is being stored.

Close the cover on the tank bag so the analyzer is out of sight for safety purposes. The sample hose and the remote switch can exit the bag between the two zipper ends that close the bag. The analyzer is now ready for road testing. Check again to be sure no loose hoses, probes or cables can interfere with a safe road test.

WARNING! DO NOT BE WATCHING THE DISPLAY WHILE DOING A ROAD TEST.



CO Series 2500

While road testing, duplicate the conditions where the reported problem occurs. When it happens, press the button on the remote switch. This freezes the past five seconds of CO data, then stores the next ten seconds of it. The graph of this data shows whether the problem is caused by a too lean or a too rich mixture.

After the trigger is pressed, and data is being saved, the green LEDs flash on and off once per second. After about fifteen seconds, the green LEDs on the analyzer and the remote switch stay on continuously indicating the analyzer is ready to receive more CO data.

Up to six sets of data can be recorded. After the final set of CO results is logged, the green LED flashes twice per second to signify the memory is full. To complete the data logging and to save the data, press Switch 3 again. Both green LEDs will then be off. The analyzer can now be turned off and the data is saved in memory ready to be printed.

Prepare to Print

Disconnect the remote switch from the analyzer. Disconnect the hose from the analyzer. Remove the analyzer from the tank bag.

Printing

Connect the printer to the analyzer. Turn on the printer and the analyzer and press the Print Switch. This prints Low Idle and High Idle CO and the logged data.

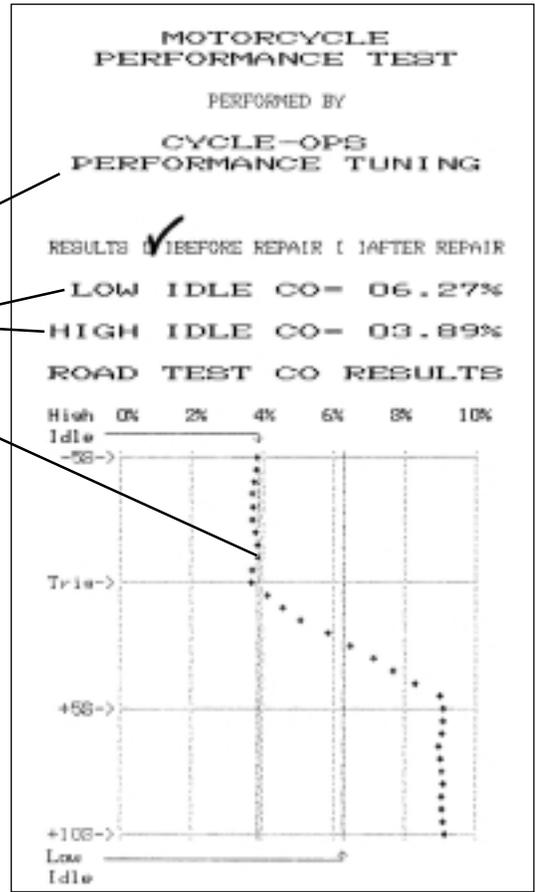
The printer will first print the header where the business identifying information is written. The next data presented is the Low Idle and High Idle CO results. The last data shown is up to six graphs of the CO versus time for up to six road tests.

Multiple printouts of saved results are available by pressing the print button again after saved results are printed. However, if the analyzer is turned off and on again after printing, the memory is cleared and no saved results are available.

Clearing Memory

Turning the unit on and off twice will erase saved results if the data has not yet been printed. If data was printed, turning the unit off and on one time will erase the results.

After clearing memory, the analyzer is now ready for more testing.



Printout of a 30 to 80 MPH Roll-on Test