

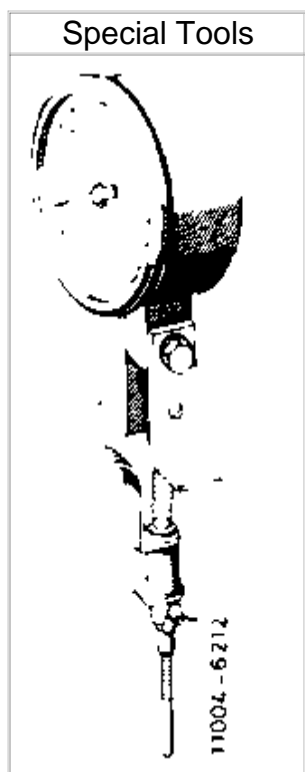
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 [Conversion Calculator](#)**1985 Mercedes Benz 380SE (126 Chassis) V8-3839cc 3.8L SOHC (116)**[Vehicle Level](#) → [Powertrain Management](#) → [Computers and Control Systems](#) → [Testing and Inspection](#) → [Component Tests and General Diagnostics](#) → [Lambda System Function Test](#) ←

Lambda System Function Test

[Notes](#)

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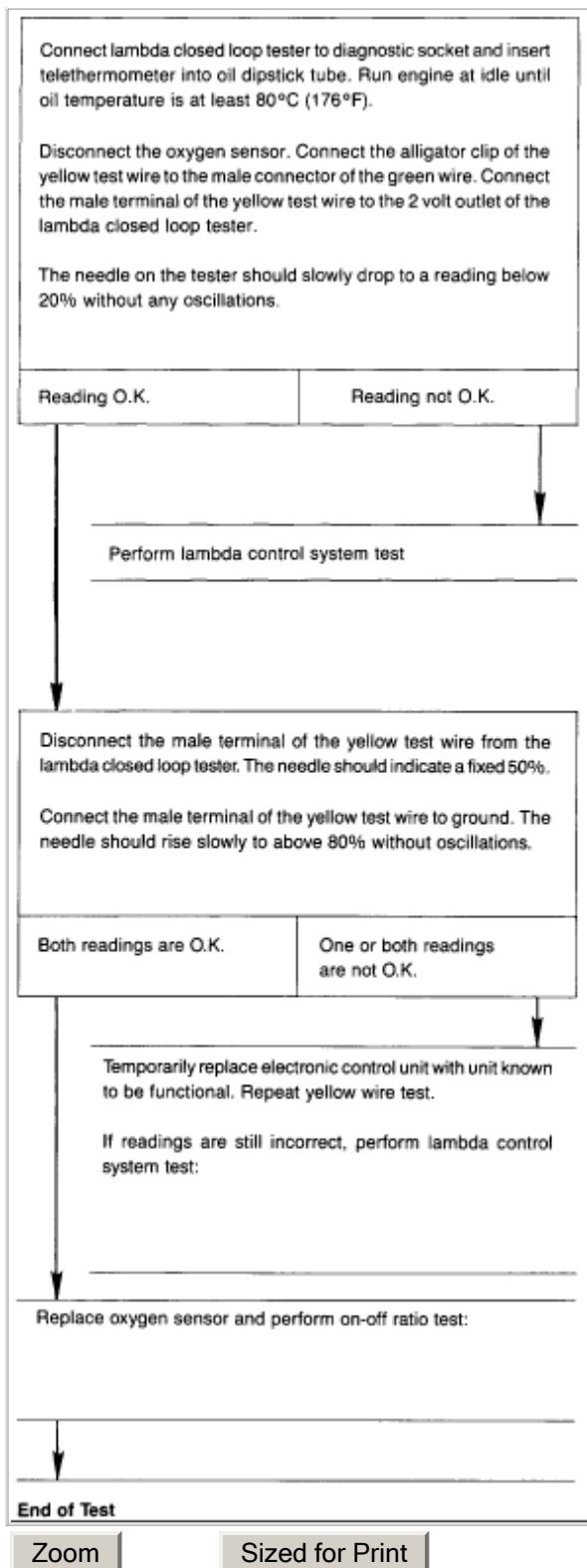
- Lambda closed loop tester with yellow test wire - 909 589 00 21 00
- Oil telethermometer - 116 589 272 100

Test Conditions:

- Ignition system must be in good working order and engine at idle speed.
- Ignition timing must be set to specification.

Testing

[Test Procedure](#)



- Follow test procedure shown in image.

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Connect lambda closed loop tester to diagnostic socket and insert telethermometer into oil dipstick tube. Run engine at idle until oil temperature is at least 80°C (176°F).

Disconnect the oxygen sensor. Connect the alligator clip of the yellow test wire to the male connector of the green wire. Connect the male terminal of the yellow test wire to the 2 volt outlet of the lambda closed loop tester.

The needle on the tester should slowly drop to a reading below 20% without any oscillations.

Reading O.K.	Reading not O.K.
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Perform lambda control system test

Disconnect the male terminal of the yellow test wire from the lambda closed loop tester. The needle should indicate a fixed 50%.

Connect the male terminal of the yellow test wire to ground. The needle should rise slowly to above 80% without oscillations.

Both readings are O.K.	One or both readings are not O.K.
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Temporarily replace electronic control unit with unit known to be functional. Repeat yellow wire test.

If readings are still incorrect, perform lambda control system test:

Replace oxygen sensor and perform on-off ratio test:

End of Test