



Mercedes-Benz

service information

TO: OUR MERCEDES-BENZ PASSENGER CAR DEALERS

DATE: April 1994

REF. NO. MBNA 07.4/1; 58/74

SUBJECT: MODELS 124, 129, 140 WITH ENGINES 119/120 LH-SFI
ELIMINATION OF 9-POLE DIAGNOSTIC CONNECTOR (X11)
AND TDC SENSOR (L1)

As of July 1993 production, the 9-pole diagnostic connector (X11) and TDC sensor (L1) have been eliminated from the engine compartment on the above-mentioned vehicles.

Note:

On engine 120, there is a left and right diagnostic connector and corresponding TDC sensor (X11/2, X11/3, L1/1, L1/2, respectively).

Due to the elimination of the 9-pole diagnostic connector from the engine compartment, an adaptor cable must now be used to replicate this function and supply the needed signals (connectors "A" and "B") from the ignition control modules (N1/3, N1/4, N1/5) and 38-pole data link connector (X11/4) (Figure 1). As a result, an engine analyzer can still be used for diagnostic purposes.

The Lambda (λ) output signal has been incorporated in to the 38-pole diagnostic connector (X11/4). The signal can be read using the engine analyzer or the Lambda meter via the adaptor, using socket 14 (engine 119) or sockets 14 and 15 (engine 120) of the 38-pole data link connector (X11/4), (Figure 1) or with the Hand-Held Tester (HHT).

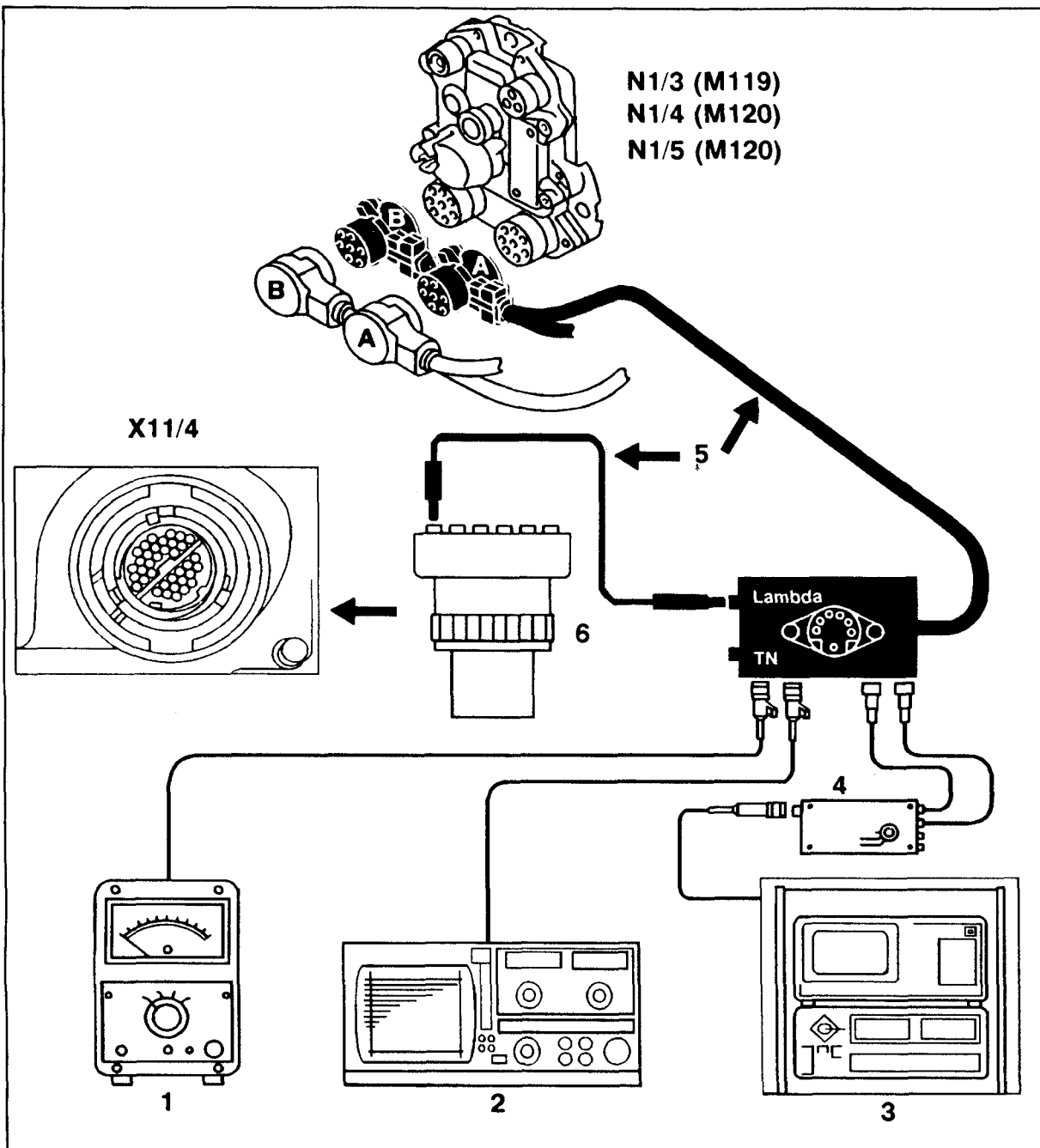
Due to the elimination of the TDC sensor (L1), the ignition angle must be verified with the HHT, or a strobe light can be used if necessary.

Diagnostic test connections are included with the adaptor and are to be followed accordingly.

Note:

When using the Bear Dace engine analyzer, 2 adaptor cables will be necessary for diagnosis on engine 120. In addition, it is considered normal if the "- 20°" icon flashes on the Bear Dace engine analyzer, since this signal is not in the adapter cable socket.

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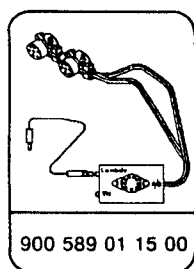


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Figure 1

- 1 Lambda (λ) meter
- 2 Engine analyzer
- 3 Engine analyzer
- 4 Dual ignition adaptor
- 5 9-pole adaptor cable (900 589 01 15 00)
- 6 DTC adaptor (140 589 14 63 00)

Please refer to section 0 of the Diagnostic Manual, Engines, Volume 2 for test equipment connections.

Special Tools

Description	Part Number	Group/category	Dealer Net (\$)
9-pole adaptor cable	900 589 01 15 00	07.4/C	362.00