

[Select Vehicle](#) | [New TSBs](#) | [Technician's Reference](#)Component Search:  [Conversion Calculator](#)**1993 Mercedes Benz 300E 4Matic (124 Chassis) L6-2960cc 3.0L SOHC (103)**[Vehicle Level](#) → [Powertrain Management](#) → [Computers and Control Systems](#) → [Testing and Inspection](#) → [Diagnostic Trouble Code Tests and Associated Procedures](#) → [Manufacturer Code Charts](#) → [Transfer Case](#) ←

Transfer Case

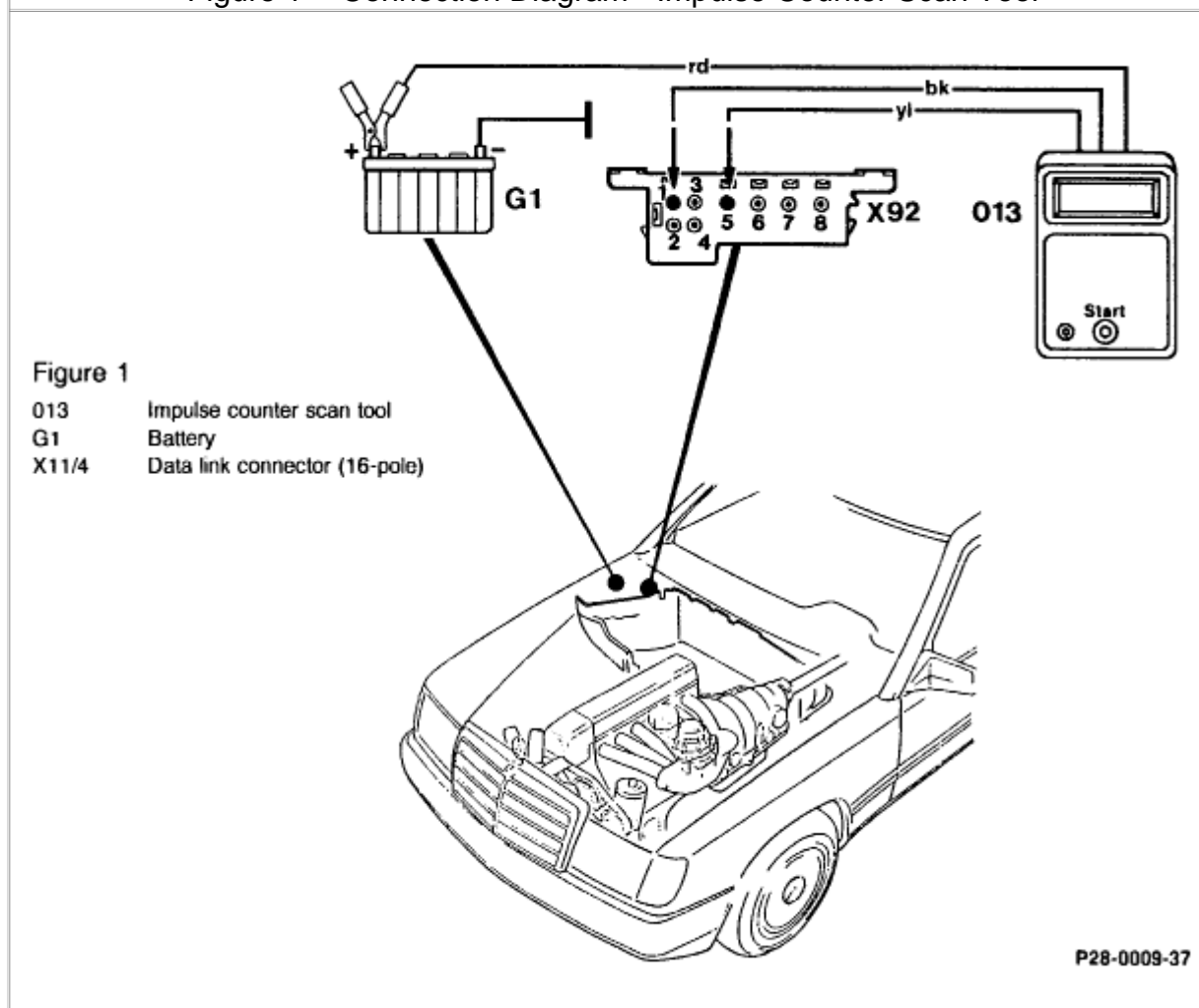
[Notes](#)

Diagnosis - Diagnostic Trouble Code (DTC) Memory [12]

Test Preparation for DTC Readout

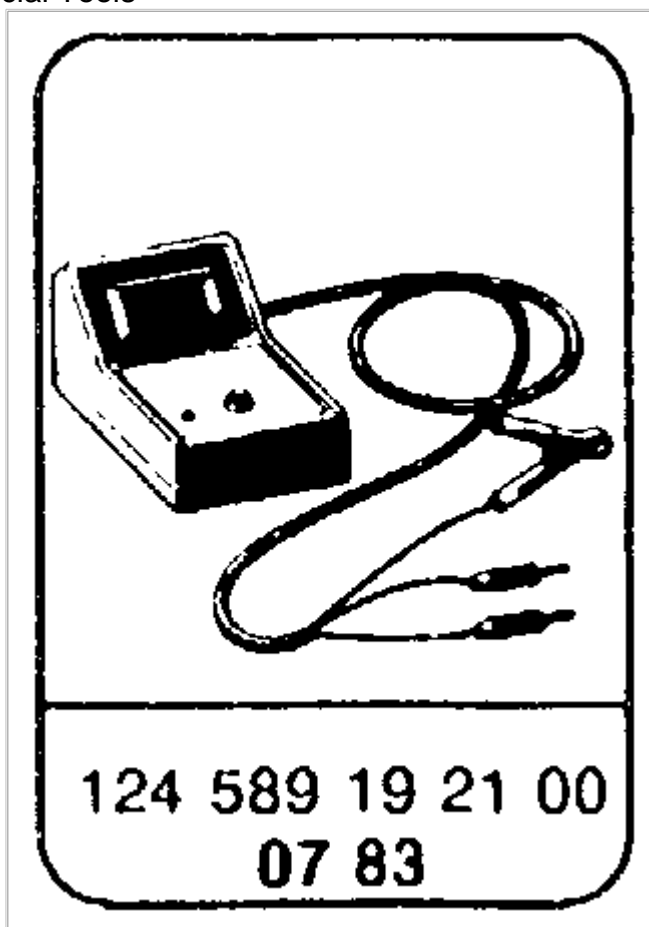
Note: A stored DTC is erased, if the connector of the [4MATIC control module](#) (N30/3) is unplugged or if the battery is disconnected.

Figure 1 -- Connection Diagram - Impulse Counter Scan Tool

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1. Connect impulse counter scan tool to [data link connector](#) (X11/4). **Note:** Connect yellow wire from impulse counter scan tool as follows: [4MATIC control module](#) (N30/3) -- socket 5
2. Engine: At idle.
3. Read DTC memory of [4MATIC control module](#) (N30/3). See: [Transmission and Drivetrain\Transfer Case\Testing and Inspection\Scan Tool Connecting \[0\]](#) **Note:** After successful repair erase DTC memory with engine running. The following faults are not stored by the [4MATIC control module](#):
 - 4MATIC function indicator lamp (A1e25) defective.
 - 4MATIC [MIL](#) (A1e24) defective.
 - Oil pressure switch (A7/2s1) defective.

Special Tools



Zoom

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Diagnostic trouble code (DTC)	Possible cause	Test step/Remedy 1)
1	No faults recognized. In case of complaint:	□23 (entire test)
2	4MATIC control module (N30/3)	N30/3
3	Stop lamp switch (4-pole) (S9/1)	□23 ⇒ 810 910
4	Left front axle VSS sensor (L6/1)	□23 ⇒ 1810
5	Right front axle VSS sensor (L6/2)	□23 ⇒ 1810
6	Rear axle VSS sensor (L6)	□23 ⇒ 1810
7	Axle VSS sensors (L6, L6/1, L6/2) or ABS control module (N30)	Check wiring for open circuit, Check N30.
8	Overvoltage protection relay module (87E/87L/30a, 9-pole) (K1/2) or front axle drivetrain valve (A7/2y1) or central differential lock valve (A7/2y2)	□23 ⇒ 1810 210 1810 1740 1810 1910 2010
9	Overvoltage protection relay module (87E/87L/30a, 9-pole) (K1/2), central differential lock valve (A7/2y2) or rear axle differential lock valve (A7/2y3) or stop lamp switch (4-pole) (S9/1)	□23 ⇒ 1810 210 810 910 1810 1740 1810 1910 2010
10	Overvoltage protection relay module (87E/87L/30a, 9-pole) (K1/2) or rear axle differential lock valve (A7/2y3) or stop lamp switch (4-pole) (S9/1)	□23 ⇒ 1810 210 910 910 1810 2010
11	Overvoltage protection relay module (87E/87L/30a, 9-pole) (K1/2) or steering angle sensor (N49)	□23 ⇒ 110 210 1010 1110 1210

1) Observe Preparation for Test, [see □22](#)

Zoom

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