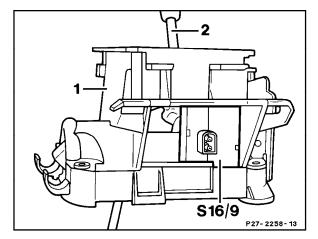
| Test step DTC | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|---------------|--------------------------|--------------------------------------|--|----------------------------|---|
| ⇒ 1.0 | Voltage supply | N15/1 □□□□□ 1 — (→ Û →) — 21 | Igition: ON | 11 – 14 V | Wiring, Ground (component compartment) (W16), Overvoltage protection relay module (K1/2). |
| ⇒ 2.0 ¹) Ч | Accelerator pedal signal | N15/1 | WOT | < 1 V < 2 V 2 – 3 V | Wiring, TB switch (S29/4), TCM (N15/1). |
| | Reference voltage | N15/1 | WOT | < 1 V < 2 V 2 – 3 V | Wiring, ⇒ 2.1. |
| ⇒ 2.1 | TB Switch (S29/4) | S29/4x2 3 - - - 1 | Ignition: OFF | 900 – 1600 Ω | S29/4 |
| | | S29/4x2 3 - - | Disconnect TB switch AP potentiometer connector (S29/4x2). | $2.0-3.8~\mathrm{k}\Omega$ | |

¹⁾ The voltage should increase continually when bringing the accelerator pedal to WOT.

| Test step DTC | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|---------------|-------------------------|--|----------------|------------------|--|
| ⇒ 3.0 | Transmission range | N15/1 □□□□□ 1 — | in: P-R-N-D | > 10 V < 1 V | Wiring, ⇒ 3.2, TCM (N15/1), Overvoltage protection relay module (K1/2). |
| ⇒ 3.1 | Non - USA vehicles only | | | | |
| ⇒ 3.2 | Transmission range | X22/5 5 - - - (Ω) ⁺ 4 | | < 5 Ω > 20 kΩ | Wiring, TR "D" contact switch (S16/9) |
| ⇒ 4.0 | Non - USA vehicles only | | | | |

| Test step DTC | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|----------------|----------------------------|-----------------|--|----------------------------|---|
| ⇒ 5.0 5 | Engine speed signal TN | N15/1 | Engine: at Idle | 6 V | Wiring, ⇒ 5.1, TCM (N15/1). |
| ⇒ 5.1 | Control module | N15/1 | Engine: at Idle TCM (N15/1) disconnected. | 6 V | DI control module (N1/3), Engine systems (MAS) control module (N16), CFI control module (N3). |
| ⇒ 6.0 Б | Vehicle speed signal (VSS) | N15/1 | Drive vehicle at approximately 31 mph (50 km/h) on a dynamometer. ABS/ASR control module (N30/1) disconnected. | 6 V ~ | Wiring, Instrument cluster (A1), DM, B&A, Vol. 1, section 1.2 23, Combination relay (N10), Hall-effect speed sensor (B6). |
| ⇒ 7.0 | Digital load signal | N15/1 | Vacuum line on DI control | approx. 0.8 V ~ > 2 V ~ | Wiring, TCM (N15/1), DI control module (N1/3). |

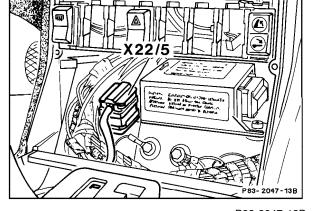
| Test step DTC | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|---------------|---|--|--|--|---|
| ⇒ 8.0 | Kickdown switch (S16/6) Activation | N15/1 | Engine: at Idle Depress kickdown switch by hand (behind pedal). | < 1 V > 10 V | Wiring. ⇒ 8.1, TCM (N15/1), Kickdown switch (S16/6). |
| ⇒ 8.1 | Kickdown solenoid valve (Y3/1y1), internal resistance | N15/1 | Ignition: OFF TCM (N15/1) disconnected. | 10 – 30 Ω | Wiring, Valve block (Y3/1). |
| 9 | Valve block control valve (Y3/1y2) Activation in 4GR | N15/1 □□□□□ 2 — → Û → → 22 | Engine: at Idle Engine speed > 1000 rpm | > 5 V ~ | Wiring ⇒ 9.1, TCM (N15/1) |
| | Activation in 5GR | | Drive vehicle on a dynamometer at approximately 50 mph (80 km/h). TR "D" | < 1 V ~ | $\Rightarrow 2.0,$ $\Rightarrow 5.0 - 7.0$ |
| ⇒ 9.1 | Coil resistance | N15/1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ | Ignition: OFF TCM (N15/1) disconnected. | $2-10~\Omega$ (see control valve resistance table) | Valve block control valve (Y3/1y2) |



P27-2258-13

P54-2032-13

P54-2032-13 Figure 2



P83-2047-13B

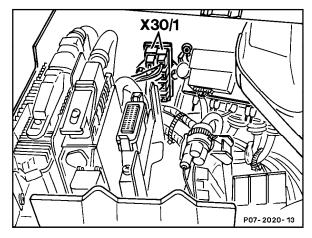
Figure 1

Transmission range "D" contact switch S16/9

X22/2 AT/engine connector

Figure 3

5-speed AT/engine connector X22/5



P07-2020-13

Figure 4

X30/1 Multi-function connector block

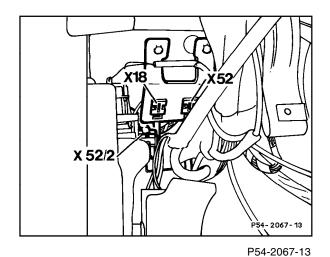
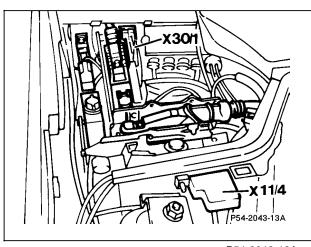


Figure 5

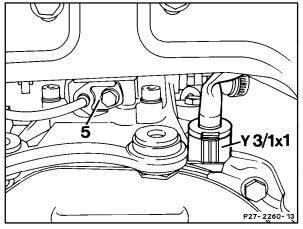
Interior/taillamp harness connector X18



P54-2043-13A

Figure 6

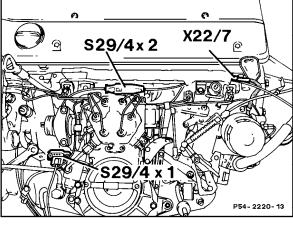
X11/4 Data link connector (DTC readout) X30/1 Multi-function connector block



P27-2260-13

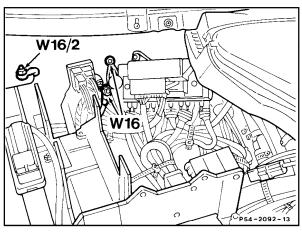
Figure 8

Y3/1x1 Valve block connector (5-speed AT)



P54-2220-13

AP potentiometer connector S29/4x2

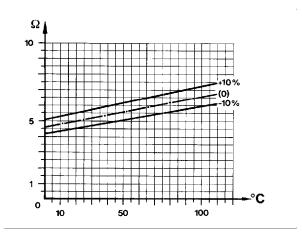


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Figure 9

W16 Ground (component compartment)

Figure 7



P27-0187-13

W1

P54-2054-13

Figure 10

Valve block control valve (y3/1y2), temperature dependant resistance table

Figure 11

Main ground (behind instrument cluster) W1