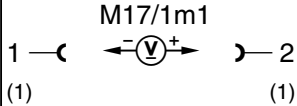



Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	Rear power bench seat adjustment switch group (S53/1) Left switch Voltage supply	<p>S53/1 3 —(3) ← ⊖ ⊕ →)— 4 (2)</p>	Ignition: ON Connectors (2 and 3) from switch (S53/1) disconnected.	11–14 V	Wiring
⇒ 2.0	Rear power bench seat adjustment switch group (S54/1) Right switch Voltage supply	<p>S54/1 4 —(6) ← ⊖ ⊕ →)— 3 (5)</p>	Ignition: ON Connectors (5 and 6) from switch (S54/1) disconnected.	11–14 V	Wiring





Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 3.0	Rear backrest/head restraint motor group, backrest fore/aft motor (M17/1m1) Voltage supply		Ignition: ON Connector (1) from motor (M17/1m1) disconnected. Press seat switch (S53/1s1): forward backward Press seat switch (S54/1s1): forward backward	11–14 V -11 to -14 V 11–14 V -11 to -14 V	Wiring, Rear power bench seat adjustment switch group (S53/1), Rear power bench seat adjustment switch group (S54/1) not connected. Rear power bench seat adjustment switch group (S54/1), Rear power bench seat adjustment switch group (S53/1) not connected.
⇒ 4.0	Rear backrest/head restraint motor group, backrest fore/aft motor (M17/1m1) Resistance		Connector (1) from motor (M17/1m1) disconnected.	0.5–15 Ω	Rear backrest/head restraint motor group, backrest fore/aft motor (M17/1m1)

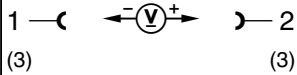
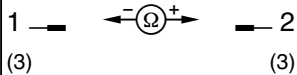
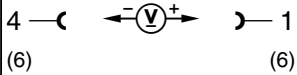
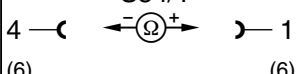
Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 5.0	Rear head restraint control module (N32/12) Voltage supply	N32/12 12 —(←(⊖)→)— 9	Ignition: ON Connector from module (N32/12) disconnected.	11–14 V	Wiring
⇒ 6.0	Rear power bench seat adjustment, head restraint raise/lower switch (S53/1s2) Electrical circuit	N32/12 16 —(←(⊖)→)— 17	Ignition: ON Connector from module (N32/12) disconnected. Press head restraint switch (S53/1s2): head restraint up head restraint down	11–14 V -11 to -14 V	Wiring, Rear power bench seat adjustment switch group (S53/1).
⇒ 7.0	Rear backrest/head restraint motor group, left rear head restraint raise/lower motor (M17/1m2) Voltage supply	M17/1m2 1 —(←(⊖)→)— 2 (2) (2)	Ignition: ON Remove covering behind head restraint Connector (2) from motor (M17/1m2) disconnected. Press head restraint switch (S53/1s2): head restraint up head restraint down	constant value for 5–10 seconds 11–14 V -11 to -14 V	Wiring, Rear power bench seat adjustment switch group (S53/1), Rear head restraint control module (N32/12).

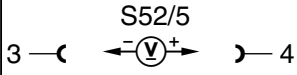
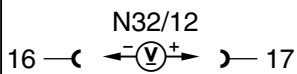
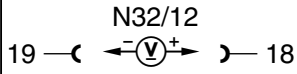
Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 8.0	Rear backrest/head restraint motor group, left rear head restraint raise/lower motor (M17/1m2) Resistance	M17/1m2 2 —  — 1 (2) (2)	Connector (2) from motor (M17/1m2) disconnected.	0.5–15 Ω	Rear backrest/head restraint motor group, left rear head restraint raise/lower motor (M17/1m2)
⇒ 9.0	Rear power bench seat adjustment switch group illumination (S53/1e1) Voltage supply	S53/1 3 —  — 2 (3) (3)	Connector (3) from switch (S53/1) disconnected. Headlamps: ON	11–14 V	Wiring
⇒ 10.0	Rear power bench seat adjustment switch group illumination (S53/1e1) Resistance	S53/1 3 —  — 2 (3) (3)	Connector (3) from switch (S53/1) disconnected.	approx. 10 Ω	Bulb, Rear power bench seat adjustment switch group (S53/1).
⇒ 11.0	Rear power bench seat adjustment, head restraint raise/lower switch (S54/1s2) Electrical circuit	N32/12 19 —  — 18	Ignition: ON Connector from module (N32/12) disconnected. Press head restraint switch (S54/1s2): head restraint up head restraint down	11–14 V -11 to -14 V	Wiring, Rear power bench seat adjustment switch group (S54/1).

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 12.0	Rear backrest/head restraint motor group, right rear head restraint raise/lower motor (M17/1m3) Voltage supply	M17/1m3 	Ignition: ON Remove covering behind head restraint Connector (3) from motor (M17/1m2) disconnected. Press head restraint switch (S53/1s2): head restraint up head restraint down	constant value for 5–10 seconds 11–14 V -11 to -14 V	Wiring, Rear power bench seat adjustment switch group (S54/1), Rear head restraint control module (N32/12).
⇒ 13.0	Rear backrest/head restraint motor group, right rear head restraint raise/lower motor (M17/1m3) Resistance	M17/1m3 	Connector (3) from motor (M17/1m3)	0.5–15 Ω	Rear backrest/head restraint motor group, right rear head restraint raise/lower motor (M17/1m3)
⇒ 14.0	Rear power bench seat adjustment switch group illumination (S54/1e1) Voltage supply	S54/1 	Connector (6) from switch (S54/1) disconnected. Headlamps: ON	11–14 V	Wiring
⇒ 15.0	Rear power bench seat adjustment switch group illumination (S54/1e1) Resistance	S54/1 	Connector (6) from switch (S54/1) disconnected.	approx. 10 Ω	Bulb, Rear power bench seat adjustment switch group (S54/1).

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 16.0	Rear head restraint raise/lower switch (S52/5) Voltage supply		Ignition: ON Connector from switch (S52/5)	11–14 V	Wiring, Rear head restraint raise/lower switch (S52/5).
⇒ 17.0	Rear head restraint raise/lower switch (S52/5) Left electrical circuit		Ignition: ON Connector from module (N32/12) disconnected. Press switch (S52/5): head restraint up head restraint down	11–14 V -11 to -14 V	Rear power bench seat adjustment switch group (S53/1)
	Right lectric alcircuit		Press switch (S52/5): head restraint up head restraint down	11–14 V -11 to -14 V	

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 18.0	Rear backrest/head restraint motor group, left rear head restraint raise/lower motor (M17/1m2) Voltage supply	M17/1m2 1 —(←(V)→)— 2 (2) (2)	Ignition: ON Connector (2) from motor (M17/1m2) disconnected. Press head restraint switch (S52/5): head restraint up head restraint down	constant value for 5–10 seconds 11–14 V -11 to -14 V	Wiring, Rear head restraint raise/lower switch (S52/5), Rear head restraint control module (N32/12).
⇒ 19.0	Rear backrest/head restraint motor group, right rear head restraint raise/lower motor (M17/1m3) Voltage supply	M17/1m3 1 —(←(V)→)— 2 (3) (3)	Ignition: ON Connector (3) from motor (M17/1m2) disconnected. Press head restraint switch (S52/5): head restraint up head restraint down	constant value for 5–10 seconds 11–14 V -11 to -14 V	Wiring, Rear head restraint raise/lower switch (S52/5), Rear head restraint control module (N32/12).

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 20.0	Rear head restraint raise/lower switch (S52/5) illumination Voltage supply	<p>S52/5 3 —(←(V)+ →) — 5</p>	Connector from switch (S52/5) Headlamps: ON	11–14 V	Wiring, Rear head restraint raise/lower switch (S52/5).
⇒ 21.0	Rear head restraint raise/lower switch (S52/5) illumination Resistance	<p>S52/5 3 —(←(Ω)+ →) — 5</p>	Connector from switch (S52/5)	approx. 10 Ω	Wiring, Rear head restraint raise/lower switch (S52/5).

Electrical Test Program - Test

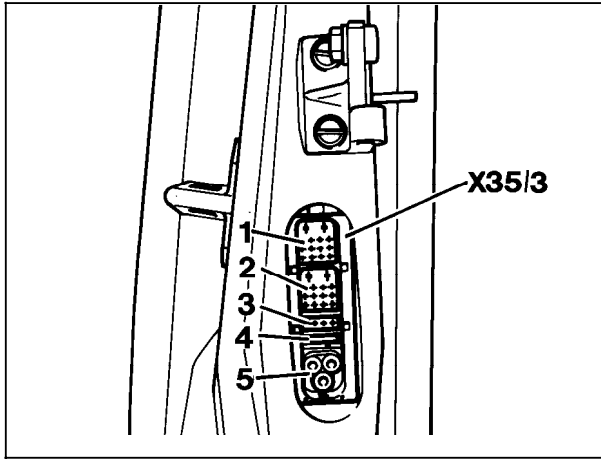


Figure 1
X35/3 Left rear door plug connection
P54-2808-13

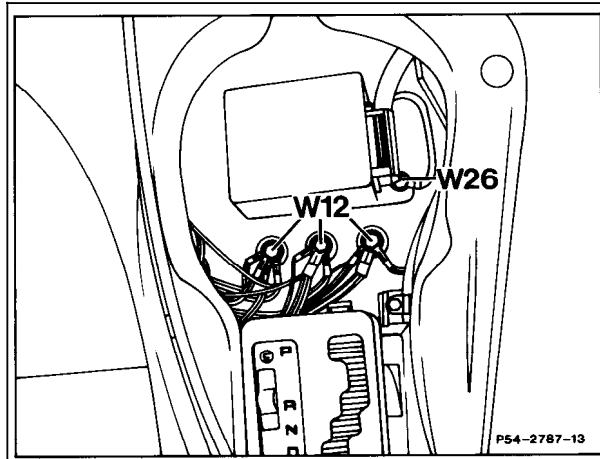


Figure 2
W12 Ground (center console)
W26
P54-2787-13

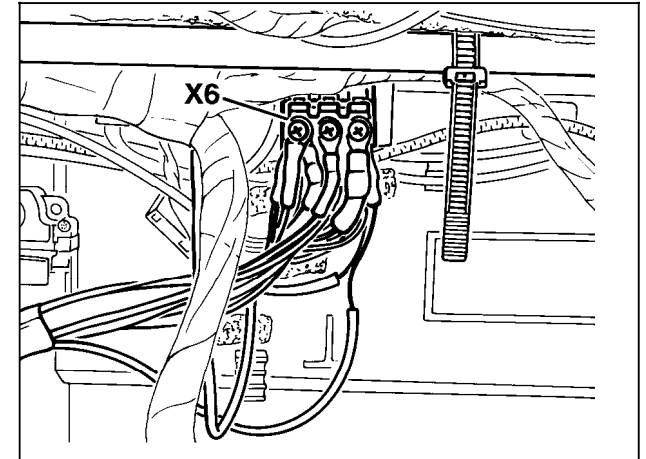


Figure 3
X6 Terminal block (terminal 58d) (3- or 4-pole)
P82-3066-13

Electrical Test Program - Test

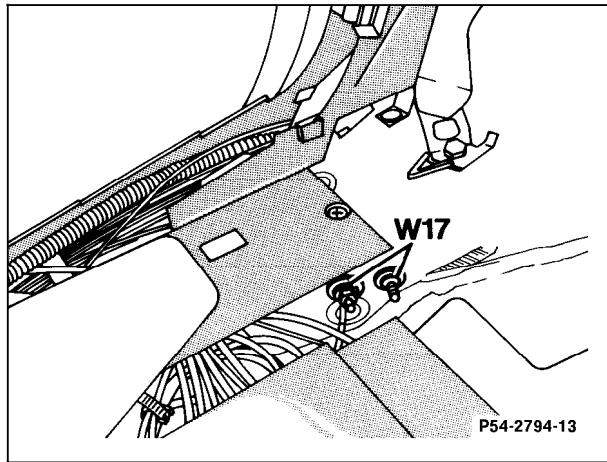


Figure 4

P54-2794-13

W17 Ground (right rear seat)