
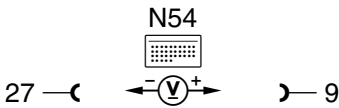
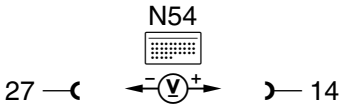
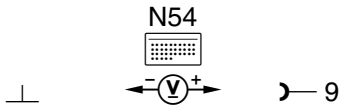
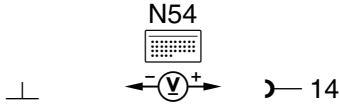

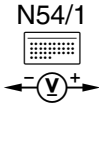
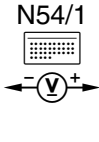
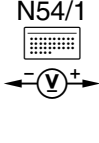
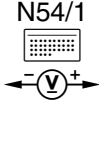


Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		RCL control module (N54) Voltage supply	 	Ignition: OFF Ignition: OFF Ignition: ON	11 – 14 V < 1 V 11 – 14 V	Wiring, Circuit 30, Circuit 31, ⇒ 1.1 Wiring, Circuit 15, Circuit 31, ⇒ 1.2
1.1		Circuit 30		Ignition: OFF	11 – 14 V	Wiring, Circuit 30
1.2		Circuit 15		Ignition: OFF Ignition: ON	< 1 V 11 – 14 V	Wiring, Circuit 15


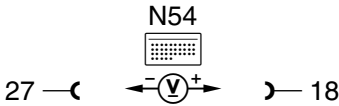

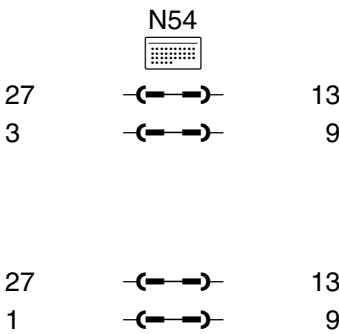

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0		IR DAS control module (N54/1) Voltage supply	 	Ignition: OFF Ignition: OFF Ignition: ON	11 – 14 V < 1 V 11 – 14 V	Wiring, Circuit 30, Circuit 31, ⇒ 2.1 Wiring, Circuit 15, Circuit 31, ⇒ 2.2
2.1		Circuit 30		Ignition: OFF	11 – 14 V	Wiring, Circuit 30
2.2		Circuit 15		Ignition: OFF Ignition: ON	< 1 V 11 – 14 V	Wiring, Circuit 15

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997





Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0		Left front door IR receiver (A26/1) IR signal control line		Lock vehicle by pointing IR transmitter at left front door IR receiver, keep IR transmitter button pressed. After vehicle completes locking process, read value. Afterwards, release button and read second value.	Difference of values between button depressed and button released approx. 0.3 – 1.5 V	Wiring, A26/1, IR transmitter key.
5.0		Left front door IR receiver (A26/1) Red indicator lamps Models 140, 202, 210 Model 129		Disconnect N54 from  . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Red indicator lamps off. Red indicator lamps light.	Wiring, A26/1

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


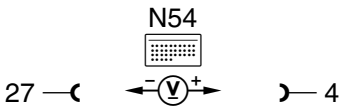


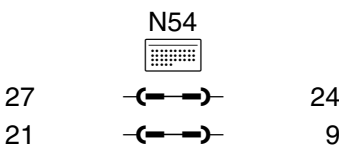

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.0		Left front door IR receiver (A26/1) Green indicator lamps Models 140, 202, 210 Model 129	N54  27 ←(→) 13 10 ←(→) 9 Model 129 27 ←(→) 13 20 ←(→) 9	Disconnect N54 from  . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Green indicator lamps off. Green indicator lamps light.	Wiring, A26/1
7.0		Trunk lid IR receiver (A26/3) Voltage supply Models 140, 202, 210 Model 129	N54 24 —(←) ←(→) 5 Model 129 24 —(←) ←(→) 12		11 – 14 V 11 – 14 V	Wiring, ⇒ 7.1, A26/3, N54
7.1		A26/3 Voltage supply Models 140, 202, 210 Model 129	A26/3 2 —(←) ←(→) 3 Model 129 7 —(←) ←(→) 3	Remove A26/3	11 – 14 V 11 – 14 V	Wiring, N54

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997





Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.0		Trunk lid IR receiver (A26/3) IR signal control line		Lock vehicle by pointing IR transmitter at trunk lid IR receiver, keep IR transmitter button pressed. After vehicle completes locking process, read value. Afterwards, release button and read second value.	Difference of values between button depressed and button released approx. 0.3 – 1.5 V	Wiring, A26/3, IR transmitter.
9.0	 	Trunk lid IR receiver (A26/3) Red indicator lamps		Disconnect N54 from  . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Red indicator lamps off. Red indicator lamps light.	Wiring, A26/3


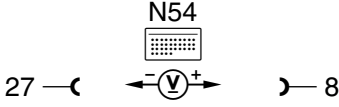

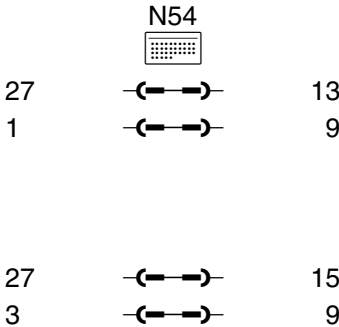

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
10.0		Trunk lid IR receiver (A26/3) Green indicator lamps Models 140, 202, 210 Model 129	N54  27 —(←→)— 24 20 —(←→)— 9 27 —(←→)— 24 2 —(←→)— 9	Disconnect N54 from  . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Green indicator lamps off. Green indicator lamps light.	Wiring, A26/3
11.0		Right front door IR receiver (A26/2) Voltage supply Model 140 Model 129	N54 13 —(←(V)→)— 22 15 —(←(V)→)— 22		11 – 14 V 11 – 14 V	Wiring, ⇒ 11.1, A26/2, N54
11.1		A26/2 Voltage supply Model 140 Model 129	A26/2 2 —(←(V)→)— 3 7 —(←(V)→)— 3	Remove A26/2	11 – 14 V 11 – 14 V	Wiring, N54

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
12.0		Right front door IR receiver (A26/2) IR signal control line Models 129, 140		Lock vehicle by pointing IR transmitter at right front door IR receiver, keep IR transmitter button pressed. After vehicle completes locking process, read value. Afterwards, release button and read second value.	Difference of values between button depressed and button released approx. 0.3 – 1.5 V	Wiring, A26/2, IR transmitter.
13.0		Right front door IR receiver (A26/2) Red indicator lamps Model 140 Model 129		Disconnect N54 from  . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Red indicator lamps off. Red indicator lamps light.	Wiring, A26/2

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


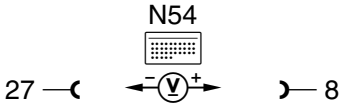
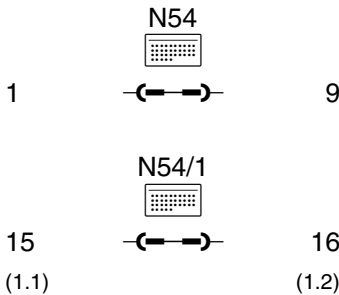


Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0		Right front door IR receiver (A26/2) Green indicator lamps Model 140 Model 129	N54 27 — — 13 2 — — 9 27 — — 15 10 — — 9	Disconnect N54 from . No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Green indicator lamps off. Green indicator lamps light.	Wiring, A26/2
15.0		RCL receiver (interior rear view mirror) (A26/7) Voltage supply Models 202, 210	N54/1 16 — — 25 (1.2) (1.11)		4.5 – 5.5 V	Wiring, ⇒ 15.1 A26/7, N54, N54/1
15.1		A26/7 Voltage supply	A26/7 13 — — 8	Remove A26/7	4.5 – 5.5 V	Wiring, N54/1

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997






Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
16.0		RCL receiver (interior rear view mirror) (A26/7) IR signal control line Models 202, 210		Lock vehicle by pointing IR transmitter at RCL receiver (interior rear view mirror), keep IR transmitter button pressed. After vehicle completes locking process, read value. Afterwards, release button and read second value.	Difference of values between button depressed and button released approx. 0.3 – 1.0 V	Wiring, A26/7, IR transmitter key.
17.0		RCL receiver (interior rear view mirror) (A26/7) Red indicator lamps Models 202, 210		Disconnect N54 from  Disconnect N54/1 from  No or only 1 bridge (part no. 124 589 37 63 00) connected. Both bridges connected.	Red indicator lamps off. Red indicator lamps light.	Wiring, A26/7

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997



Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.0		RCL receiver (interior rear view mirror) (A26/7) Green indicator lamps Models 202, 210	<p>2  9</p> <p>15  16 (1.1) (1.2)</p>	<p>Disconnect N54 from .</p> <p>Disconnect N54/1 from .</p> <p>No or only 1 bridge (part no. 124 589 37 63 00) connected.</p> <p>Both bridges connected.</p>	<p>Green indicator lamps off.</p> <p>Green indicator lamps light.</p>	<p>Wiring, A26/7</p>

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997



Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
19.0		RCL control module (N54) Output SN1 Models 140, 202, 210		All doors closed and locked . Unlock vehicle by pointing IR transmitter at left front door IR receiver (A26/1), keeping IR transmitter button pressed. Unlock vehicle by pointing IR transmitter at right front door IR receiver (A26/2) (model 140 only), keeping IR transmitter button pressed. Unlock vehicle by pointing IR transmitter at trunk lid IR receiver (A26/3), keeping IR transmitter button pressed. Unlock vehicle by pointing IR transmitter at RCL receiver (interior rearview mirror) (A26/7) (models 202, 210 only), keeping IR transmitter button pressed.	11 – 14 V < 1V Green indicator lamps blink. < 1V Green indicator lamps blink. < 1V Green indicator lamps blink. < 1V Green indicator lamps blink.	Wiring, ⇒ 1.0, N54 Wiring, ⇒ 1.0, 3.0, 6.0, A26/1, N54 Wiring, ⇒ 1.0, 11.0, 14.0, A26/2, N54 Wiring, ⇒ 1.0, 7.0, 10.0, A26/3, N54 Wiring, ⇒ 1.0, 2.0, 15.0, 18.0, A26/7, N54, N54/1

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


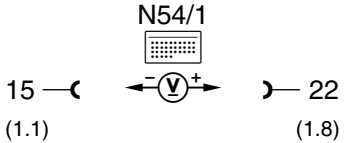
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
20.0		RCL control module (N54) Output SN2 Models 140, 202, 210		All doors closed and unlocked. Lock vehicle by pointing IR transmitter at left front door IR receiver (A26/1), keeping IR transmitter button pressed. Lock vehicle by pointing IR transmitter at right front door IR receiver (A26/2) (model 140 only), keeping IR transmitter button pressed. Lock vehicle by pointing IR transmitter at trunk lid IR receiver (A26/3), keeping IR transmitter button pressed. Lock vehicle by pointing IR transmitter at RCL receiver (interior rearview mirror) (A26/7) (models 202, 210 only), keeping IR transmitter button pressed.	11 – 14 V < 1V Red indicator lamps blink. < 1V Red indicator lamps blink. < 1V Red indicator lamps blink. < 1V Red indicator lamps blink.	Wiring, ⇒ 1.0, N54 Wiring, ⇒ 1.0, 3.0, 5.0, A26/1, N54 Wiring, ⇒ 1.0, 11.0, 13.0, A26/2, N54 Wiring, ⇒ 1.0, 7.0, 9.0, A26/3, N54 Wiring, ⇒ 1.0, 2.0, 15.0, 17.0, A26/7, N54, N54/1

4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


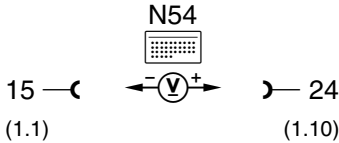
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
21.0		IR DAS control module (N54/1) Input SN1 Models 140, 202, 210	 <p>15 — (1.1) ← V → — 22 (1.8)</p>	<p>All doors closed and locked.</p> <p>Unlock vehicle by pointing IR transmitter at left front door IR receiver (A26/1), keeping IR transmitter button pressed.</p> <p>Unlock vehicle by pointing IR transmitter at right front door IR receiver (A26/2) (model 140 only), keeping IR transmitter button pressed.</p> <p>Unlock vehicle by pointing IR transmitter at trunk lid IR receiver (A26/3), keeping IR transmitter button pressed.</p> <p>Unlock vehicle by pointing IR transmitter at RCL receiver (interior rearview mirror) (A26/7) (models 202, 210 only), keeping IR transmitter button pressed.</p>	<p>11 – 14 V</p> <p>< 1V Green indicator lamps blink.</p> <p>< 1V Green indicator lamps blink.</p> <p>< 1V Green indicator lamps blink.</p> <p>< 1V Green indicator lamps blink.</p>	<p>Wiring, ⇒ 1.0, N54</p> <p>Wiring, ⇒ 1.0, 19.0 A26/1, N54</p> <p>Wiring, ⇒ 1.0, 19.0 A26/2, N54</p> <p>Wiring, ⇒ 1.0, 19.0 A26/3, N54</p> <p>Wiring, ⇒ 1.0, 2.0, 19.0 A26/7, N54, N54/1</p>







4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997










Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
22.0		IR DAS control module (N54/1) Input SN2 Models 140, 202, 210		<p>All doors closed and unlocked.</p> <p>Lock vehicle by pointing IR transmitter at left front door IR receiver (A26/1), keeping IR transmitter button pressed.</p> <p>Lock vehicle by pointing IR transmitter at right front door IR receiver (A26/2) (model 140 only), keeping IR transmitter button pressed.</p> <p>Lock vehicle by pointing IR transmitter at trunk lid IR receiver (A26/3), keeping IR transmitter button pressed.</p> <p>Lock vehicle by pointing IR transmitter at RCL receiver (interior rearview mirror) (A26/7) (models 202, 210 only), keeping IR transmitter button pressed.</p>	<p>11 – 14 V</p> <p>< 1V Red indicator lamps blink.</p> <p>< 1V Red indicator lamps blink.</p> <p>< 1V Red indicator lamps blink.</p> <p>< 1V Red indicator lamps blink.</p>	<p>Wiring, N54</p> <p>Wiring, ⇒ 1.0, 20.0, A26/1, N54</p> <p>Wiring, ⇒ 1.0, 20.0, A26/2, N54</p> <p>Wiring, ⇒ 1.0, 20.0, A26/3, N54</p> <p>Wiring, ⇒ 1.0, 2.0, 20.0, A26/7, N54, N54/1</p>

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
23.0		<p>Lock switch circuit Left front door lock switch (S86/1) (model 140), Right front door lock switch (S87/1) (models 202, 210), Trunk lid lock switch (S88/2) (models 140, 202, 210)</p> <p>Left front door lock switch (S86/1) (model 129) and ATA/CF microswitch (S88s1)</p>	<p style="text-align: center;">N54/1 </p> <p>22 —((1.8) ←(V)→)— 26 (1.12)</p> <p style="text-align: center;">N54/1 </p> <p>24 —((1.10) ←(V)→)— 26 (1.12)</p> <p style="text-align: center;">N54 </p> <p>11 —(←(V)→)— 9</p>	<p>Disconnect N54/1 from .</p> <p>Disconnect trunk lid lock switch (S88/2).</p> <p>S86/1 or S87/1: Rest position < 1V</p> <p>S86/1 or S87/1: Hold: unlock 11 – 14 V</p> <p>S86/1 or S87/1: Rest position < 1V</p> <p>S86/1 or S87/1: Hold: lock 11 – 14 V</p> <p>Disconnect N54 from .</p> <p>Disconnect trunk lid lock switch (S88/2).</p> <p>S86/1: Rest position < 1V</p> <p>S86/1: Hold: lock 11 – 14 V</p>	<p>< 1V</p> <p>11 – 14 V</p> <p>< 1V</p> <p>11 – 14 V</p> <p>< 1V</p> <p>11 – 14 V</p>	<p>Wiring, S86/1 or S87/1</p> <p>Wiring, S86/1</p>




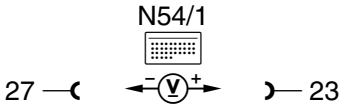
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
24.0		<p>Lock switch circuit Left front door lock switch (S86/1) (model 140), Right front door lock switch (S87/1) (models 202, 210), Trunk lid lock switch (S88/2) (models 140, 202, 210)</p> <p>Left front door lock switch (S86/1) (model 129) and ATA/CF microswitch (S88s1)</p>	<p style="text-align: center;">N54/1 </p> <p>22 —((1.8) )— 26 (1.12)</p> <p style="text-align: center;">N54/1 </p> <p>24 —((1.10) )— 26 (1.12)</p> <p style="text-align: center;">N54 </p> <p>11 —()— 9</p>	<p>Disconnect N54/1 from .</p> <p>Connect trunk lid lock switch (S88/2).</p> <p>S88/2: Rest position</p> <p>S88/2: Hold: unlock</p> <p>S88/2: Rest position</p> <p>S88/2: Hold: lock</p> <p>Disconnect N54 from .</p> <p>Connect trunk lid lock switch (S88/2).</p> <p>S88/2: Rest position</p> <p>S88/2: Hold: lock</p>	<p>< 1V</p> <p>11 – 14 V</p> <p>< 1V</p> <p>11 – 14 V</p> <p>< 1V</p> <p>11 – 14 V</p>	<p>Wiring, S88/2</p> <p>Wiring, S88s1</p>


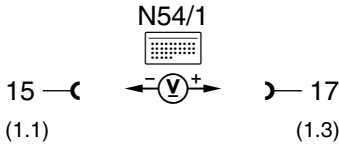
4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


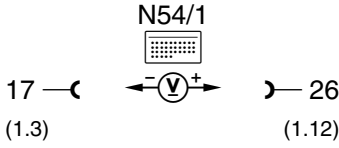
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
25.0		Left front door actuator (S47) Switch and working element Model 129		Disconnect N54 from  .	11 – 14 V	Wiring, S47
26.0		RCL control module (N54) output deactivation (PSE/CL) Model 129		<p>All doors closed and locked.</p> <p>Disconnect supply pump (M14/1, M14/2)</p> <p>Unlock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.</p>	<p>Green indicator lamps blink, vehicle unlocks.</p> <p>11 – 14 V for approx. 0.6 seconds. (values measurable by using Fluke 83, 88).</p>	<p>Wiring, ⇒ 3.0, 4.0, 6.0 – 8.0, 10.0 – 12.0, 14.0, N54</p>






Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
27.0		IR DAS control module (N54/1) output deactivation (PSE/CL, CF, ATA) Models 140, 202		All doors closed and locked . Unlock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.	11 – 14 V < 1V Green indicator lamps blink, vehicle unlocks.	Wiring, N54, N54/1, PSE control module (A37), CF control module (N57), ATA control module (N26). Wiring, ⇒ 3.0, 4.0, 6.0 – 8.0, 10.0 – 12.0, 14.0 – 16.0, 18.0, 19.0, 21.0, N54, N54/1


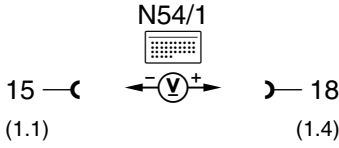
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
28.0		IR DAS control module (N54/1) output deactivation (PSE/CL, CF, ATA) Model 210		All doors closed and locked . Unlock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.	< 1V 6 – 8 V Green indicator lamps blink, vehicle unlocks.	Wiring, N54, N54/1, Combination control module (N10-1). Wiring, ⇒ 3.0, 4.0, 6.0 – 8.0, 10.0, 15.0, 16.0, 18.0, 19.0, 21.0, N54, N54/1


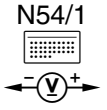
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
29.0		<p>RCL control module (N54) output activation (PSE/CL) Model 129</p>	<p>9 —  ←  N54  — 23</p> <p style="text-align: center;">←  →</p>	<p>All doors closed and unlocked.</p> <p>Lock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.</p>	<p>< 1V</p> <p>Red indicator lamps blink, vehicle locks. 11 – 14 V for approx. 0.6 seconds. (values measurable by using Fluke 83, 88).</p>	<p>Wiring, ⇒ 3.0 – 5.0, 7.0 – 9.0, 11.0 – 13.0, N54, N54/1, Supply pump (M14/1, M14/2), Power soft top control module (N57), ATA control module (N26).</p>



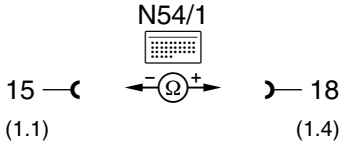



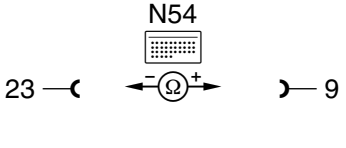




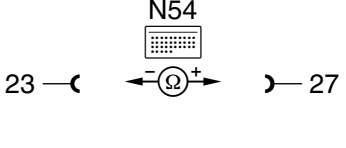




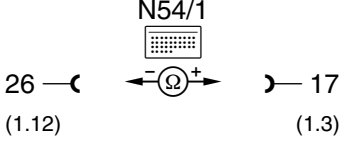


Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
30.0		IR DAS control module (N54/1) output activation (PSE/CL, CF, ATA) Models 140, 202		All doors closed and unlocked . Lock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.	11 – 14 V < 1V Red indicator lamps blink, vehicle locks.	Wiring, N54/1, A37, N57, N26 Wiring, ⇒ 3.0 – 5.0, 7.0 – 9.0, 11.0 – 13.0, 15.0 – 17.0, 20.0, 22.0, N54/1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
31.0		IR DAS control module (N54/1) output activation (PSE/CL, CF, ATA) Model 210		All doors closed and unlocked . Lock vehicle by pointing IR transmitter at one IR receiver, keeping IR transmitter button pressed.	< 1V 11 – 14 V Red indicator lamps blink, vehicle locks.	Wiring, N54, N54/1, N10-1 Wiring, ⇒ 3.0 – 5.0, 7.0 – 9.0, 15.0 – 17.0, 20.0, 22.0, N54, N54/1



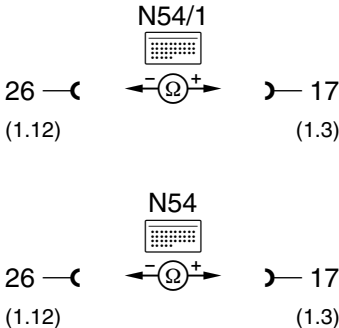



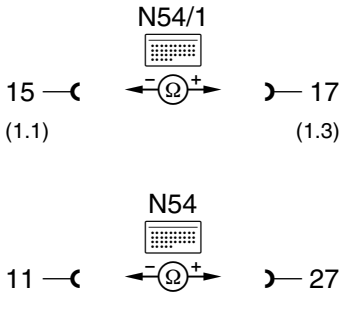

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
32.0		Control line activation (PSE/CL, CF, ATA) Γ Γ- Models 140, 202		Disconnect N54/1 from  Disconnect PSE control module (A37).	>20 kΩ	Wiring.
33.0	 	Control line deactivation/activation (PSE/CL) Γ Γ+ Model 129		Disconnect N54 from  Disconnect PSE control module (A37). Disconnect ground wire from  .	>20 kΩ	Wiring.
34.0	 	Control line deactivation/activation (PSE/CL) Γ Γ- Model 129		Disconnect N54 from  Disconnect PSE (M14/1, M14/2). Disconnect ground wire from  .	>20 kΩ	Wiring.
35.0	 	Control line deactivation/activation (PSE/CL, CF, ATA) Γ Γ+ Model 210		Disconnect N54/1 from  Disconnect combination control module (N10-1). Disconnect ground wire from  .	>20 kΩ	Wiring.



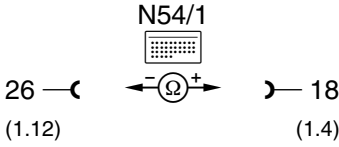



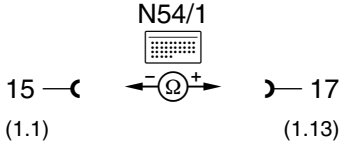


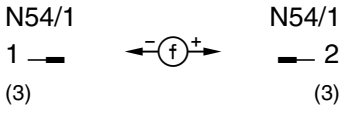

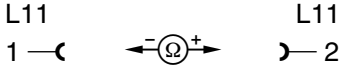
4.8 Infrared Remote Central Locking (RCL)

Models 129, 140, 202, 210 M.Y. 1997


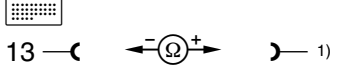

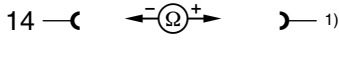

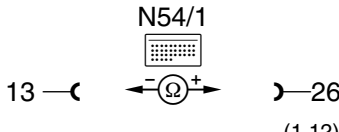


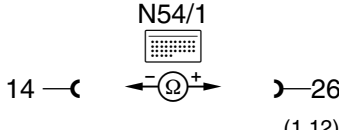


Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
36.0		Control line deactivation (PSE/CL, CF, ATA) Γ1+ Models 140, 202 Model 129		Disconnect N54/1 from  Disconnect PSE control module (A37 or M14/1, M14/2). Disconnect ground wire from  Disconnect ATA control module (N26). Disconnect power soft top control module (N52) (model 129 only).	>20 kΩ	Wiring.
37.0		Control line deactivation (PSE/CL, CF, ATA) Γ1- Models 140, 202 Model 129		Disconnect N54/1 from  Disconnect PSE control module (A37 or M14/1, M14/2). Disconnect ATA control module (N26). Disconnect power soft top control module (N52) (model 129 only).	>20 kΩ	Wiring.

Electrical Test Program – Test








⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
38.0		Control line activation (PSE/CL, CF, ATA) Γ1+ Models 140, 202		Disconnect N54/1 from  Disconnect PSE control module (A37). Disconnect ground wire from  .	>20 kΩ	Wiring.
39.0		Control line deactivation/activation (PSE/CL, CF, ATA) Γ1- Model 210		Disconnect N54/1 from  Disconnect combination control module (N10-1).	>20 kΩ	Wiring.
40.0		Coil for transponder (L11) activation		Disconnect connector 3 from N54/1 Ignition: ON	125 kHz for approx. 0.2 – 0.8 seconds. (values measurable by using Fluke 83, 88).	N54/1
41.0		Coil for transponder (L11) Resistance		Disconnect connector 3 from N54/1	4 – 6 Ω	L11

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
42.0		CAN L data line Motor electronics activation -//- (CAN only)	N54/1 	Disconnect N54/1 from  Disconnect engine control module.	<1 Ω	Wiring.
43.0		CAN H data line Motor electronics activation -//- (CAN only)	N54/1 	Disconnect N54/1 from  Disconnect engine control module.	<1 Ω	Wiring.
44.0		CAN L data line Motor electronics activation Γ1+ (CAN only)	N54/1 	Disconnect N54/1 from  Disconnect ground wire from  Disconnect engine control module.	>20 kΩ	Wiring.
45.0		CAN H data line Motor electronics activation Γ1+ (CAN only)	N54/1 	Disconnect N54/1 from  Disconnect ground wire from  Disconnect engine control module.	>20 kΩ	Wiring.

1) Prior to testing, please see appropriate ETM (group 7) to determine control module harness socket number.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
46.0		CAN L data line Motor electronics activation Γ1- (CAN only)	 15 —((1.1)	Disconnect N54/1 from  . Disconnect engine control module.	>20 kΩ	Wiring.
47.0		CAN H data line Motor electronics activation Γ1- (CAN only)	 15 —((1.1)	Disconnect N54/1 from  . Disconnect engine control module.	>20 kΩ	Wiring.
48.0		CAN H/CAN L data line Motor electronics activation Γ1 to each other (CAN only)	 13 —(Disconnect N54/1 from  . Disconnect engine control module.	>20 kΩ	Wiring.