

### 3.5 Pneumatic System Equipment (PSE)

Models 129, 140, 170 as of M.Y. 1998

#### Pneumatic Test Program - PSE Control Module Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	<b>Central locking system</b> <b>Left front door</b> Vacuum supply	Connector <b>FT to PSE</b> control module <b>Black</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close doors.  Lock vehicle using interior switch (CL).	450 mbar in 1.2 sec.	PSE control module (A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0
2.0	<b>Central locking system</b> <b>Left front door</b> Pressure supply	Connector <b>FT to PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close front doors.  Unlock vehicle using interior switch (CL).	450 mbar in 0.8 s	(A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0
3.0	<b>Central locking system</b> <b>Right front/right rear</b> <b>doors (model 140 sedan),</b> <b>Passenger-side door</b> <b>(Model 129/140 coupé) or</b> <b>Passenger-side door/trunk</b> <b>lid (Model 170)</b> Vacuum supply	Connector <b>BFT or</b> <b>BFT/Fond to PSE</b> control module. <b>Black</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close doors.  Lock vehicle using interior switch (CL).	450 mbar in 1.2 s	PSE control module (A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0

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⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	<b>Central locking system</b> <b>Passenger-side/rear doors</b> <b>(Model 140),</b> <b>Passenger-side door</b> <b>(Model 129/140 coupé) or</b> <b>Passenger-side door/trunk lid (Model 170)</b> Pressure supply	Connector <b>BFT or BFT/rear</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close doors.  Unlock vehicle using CL interior switch.	450 mbar in 0.8 s	(A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0
5.0	<b>Central locking system</b> <b>Trunk lid</b> Vacuum supply	Connector <b>Heck or HD</b> to <b>PSE</b> control module. <b>Black</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close all doors Lock vehicle using CL switch	450 mbar in 1.2 s	(A37), 23 PSE ⇒ 1.0, 23 PSE ⇒ 2.0, 23 PSE ⇒ 3.0
6.0	<b>Central locking system</b> <b>Trunk lid</b> Pressure supply	Connector <b>Heck or HD</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close all doors Lock vehicle using IR transmitter. Unlock vehicle using CL interior switch.	450 mbar in 0.8 s	(A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0, 4.10 23

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⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
7.0	<b>Central locking system</b> <b>Fuel filler flap</b> Vacuum supply	Connector <b>TK or Tank</b> to <b>PSE</b> control module. <b>Black</b> connector on tester	Cap all other connections on the <b>PSE</b> control module. Close all doors. Lock vehicle using IR transmitter.	450 mbar in 1.2 s	(A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0, 4.10 23
8.0	<b>Central locking system</b> <b>Fuel filler flap</b> Pressure supply	Connect <b>TK or Tank</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester	Cap all other connections on the <b>PSE</b> control module. Close all doors. Lock vehicle using IR transmitter. Unlock vehicle using CL interior switch.	450 mbar in 0.8 s	(A37), 23 PSE/CL ⇒ 1.0, 23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 30.0
9.0	<b>Multi-contour seat backrest</b> (Models 129, 140 only) Pressure supply	Connect <b>MKL</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Ignition: <b>ON/OFF</b>	Pump runs with 4 second delay. 450 mbar in 0.8 s	(A37), 23 PSE ⇒ 2.0, 23 PSE ⇒ 9.0, 23 PSE ⇒ 10.0, 23 PSE ⇒ 11.0, 23 PSE ⇒ 12.0, 23 PSE ⇒ 13.0, 23 PSE ⇒ 14.0, 23 PSE ⇒ 15.0

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⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
10.0	<b>RHR retraction in rear</b> Vacuum supply (Model 140 sedan only)	Connector <b>Heck/KAF</b> or <b>HFE/KAF</b> to <b>PSE</b> control module. <b>Black</b> connector on tester	Cap all other connections on the <b>PSE</b> control module. Extend RHRs'. Ignition: <b>ON</b> Press RHR switch.	450 mbar in 1.2 s	(A37), See AD80.20-P-6003-01A
11.0	<b>Manifold vacuum assist</b> Vacuum supply Model 140 only)	Connector <b>MVA</b> to <b>PSE</b> control module. <b>Black</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Ignition: <b>ON/OFF</b>	Pump runs with 8 second delay. 450 mbar in 1.2 s	(A37), 23 PSE ⇒ 2.0
12.0	<b>Remote trunk release</b> Pressure supply (Model 129, 140 only)	Connector <b>Heck/KAF</b> or <b>HFE/KAF</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Press RTR switch.	450 mbar in 0.8 s	(A37), See AD80.20-P-6002-01A
13.0	<b>Retractable trunk lid grip</b> Vacuum supply (Model 129, 140 only)	Connector <b>SFG</b> to <b>PSE</b> control module. <b>Black</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. Close trunk lid.	Pump runs with a 0.5 second delay. 450 mbar in 1.2 s	(A37), D.M., B&A, Vol. 1, section 3.1, 23, D.M., B&A, Vol. 1, section 3.1, 32

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⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0	<b>Retractable trunk lid grip</b> Pressure supply (Model 129, 140 only)	Connector <b>SFG</b> to <b>PSE</b> control module. <b>Yellow</b> connector on tester.	Cap all other connections on the <b>PSE</b> control module. CL system unlocks. Open trunk lid.	450 mbar in 0.8 s	(A37), D.M., B&A, Vol.1, section 3.1, 23, D.M., B&A, Vol.1, section 3.1, 32
15.0	<b>Central locking system</b> Safety switch time		Cap the following connectors on <b>PSE</b> using rubber caps: <b>Model 140:</b> <b>HFE/KAF, MVA, OSB,</b> <b>RTR</b> <b>Model 129:</b> <b>HECK/KAF, OSB, RTR</b> <b>Model 170:</b> <b>None</b>  <b>Close drivers-side doors.</b> Unlock vehicle using CL interior switch.	PSE control module runs approx. 10 ±1seconds	(A37), 23 PSE/CL ⇒ 1.0

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⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
16.0	<b>Additional consumers</b> Safety switch time (Models 129, 140 only)		Cap the following connectors on <b>PSE</b> using rubber caps: <b>Model 140:</b> <b>FT, BFT/fond, TK, RTR, HFE/KAF</b> <b>Model 129:</b> <b>FT, BFT, Tank, RTR</b> Ignition: <b>ON</b>	PSE control module runs approx. 60seconds	(A37), See AD80.20-P-6003-01A