

Diagnosis – Function Test (Central Locking)

Preparation for Test:

1. Review C/1, C/2, 11, 12, 13, 20, 21, 22, 31, 32
2. IRCL system for CL is functional,
3. Vehicle unlocked,
4. All doors and trunk lid closed,
5. Side windows open,
6. Battery voltage 11 to 14 V,
7. Fuses ok,
8. Connect HHT and readout DTC'S.

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Locking vehicle by pointing IR transmitter at the RCL receiver (roof frame) (A26/9) or via the IR receivers in the doors (A26/1, A26/2).	Locking vehicle using transmitter key.	All doors and filler flap lock in 3 sec.	Vehicle does not lock and pump motor in PSE control module (A37) does not run : PSE version coding incorrect: see 3.4 PSE C/2, PSE (A37), Vehicle does not lock even though pump motor in PSE control module (A37) runs : 4.9 12, 32 PSE/CL ⇒ 2.0, 32 PSE/CL ⇒ 4.0, 32 PSE/CL ⇒ 6.0, 32 PSE ⇒ 1.0, 32 PSE ⇒ 3.0, 32 PSE ⇒ 5.0

¹⁾ Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
<p>⇒ 2.0 "Selective" unlocking of the vehicle by pointing the IR transmitter at the RCL receiver (roof frame) (A26/9) or via the IR receivers in the doors (A26/1, A26/2).</p>	<p>Select "selective" opening. Unlocking vehicle using transmitter key.</p>	<p>All doors, trunk lid and filler flap unlock in 3 sec.</p>	<p>Vehicle does not unlock and pump motor in PSE control module (A37) does not run: Wiring, PSE version coding incorrect, see 3.4 PSE C/2, PSE (A37).</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs: 23 PSE/CL ⇒ 1.0, 4.9 12, 32 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 5.0, 32 PSE ⇒ 2.0, 32 PSE ⇒ 6.0</p>

1) Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
<p>⇒ 3.0 "Global" unlocking of the vehicle by pointing the IR transmitter at the RCL receiver (roof frame) (A26/9) or via the IR receivers in the doors (A26/1, A26/2).</p>	<p>Select "global" opening. Unlocking vehicle using transmitter key.</p>	<p>All doors, trunk lid and filler flap lock in 3 sec.</p>	<p>Vehicle does not unlock and pump motor in PSE control module (A37) does not run: Wiring, PSE version coding incorrect, see 3.4 PSE C/2</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs: 23 PSE/CL ⇒ 1.0, 4.9 12, 32 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 3.0, 32 PSE/CL ⇒ 5.0, 32 PSE ⇒ 2.0, 32 PSE ⇒ 4.0, 32 PSE ⇒ 6.0</p>

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
<p>⇒ 4.0 Lock vehicle via interior switch (CL)</p>	<p>Unlock vehicle via IR transmitter. Press interior switch in direction: Lock</p>	<p>All doors lock in 3 sec. Fuel filler flap does not lock.</p>	<p>Vehicle does not unlock and pump motor in PSE control module (A37) does not run: PSE version coding incorrect, see 3.4 PSE C/2, Wiring, PSE (A37).</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs.</p> <p>23 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 2.0, 32 PSE/CL ⇒ 4.0, 32 PSE ⇒ 1.0, 32 PSE ⇒ 3.0</p>

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 5.0 Unlock vehicle via interior switch (CL)	Press interior switch in direction: Unlock	All doors unlock in 3 sec.	Vehicle does not unlock and pump motor in PSE control module (A37) does not run: PSE version coding incorrect, see 3.4 PSE C/2, Wiring, PSE (A37). Vehicle does not unlock even though pump motor in PSE control module (A37) runs: 23 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 3.0, 32 PSE ⇒ 2.0, 32 PSE ⇒ 4.0
⇒ 6.0 Unlock vehicle by opening one of the front doors.	Select "selective" opening. Vehicle locked via interior switch. Open one of the front doors via door interior handle.	Door which was unlocked via door interior handle, unlocks.	Vehicle unlocks at all doors and the PSE control module (A37) runs: Transmitter key, PSE (A37).

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
<p>⇒ 7.0 Unlock vehicle by opening one of the front doors.</p>	<p>Select "global" opening. Vehicle locked via interior switch. Open one of the front doors via door interior handle.</p>	<p>All doors unlock in 3 sec.</p>	<p>Vehicle does not unlock and pump motor in PSE control module (A37) does not run: PSE version coding incorrect, see 3.4 PSE C/2, Wiring, PSE (A37).</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs:</p> <p>23 PSE/CL ⇒ 2.0, 32 PSE/CL ⇒ 1.0, 32 PSE/CL ⇒ 3.0, 32 PSE ⇒ 2.0, 32 PSE ⇒ 4.0</p>

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 8.0 Unlock vehicle via lock switch on front door or trunk lid lock switch (only USA J).	Turn mechanical key in front door lock switch or trunk lid lock switch towards unlock.	All doors, trunk lid and filler flap unlock in 3 sec.	Vehicle does not unlock and pump motor in PSE control module (A37) does not run: Wiring, PSE (A37). Vehicle does not unlock even though pump motor in PSE control module (A37) runs: 4.9 23, 4.9 23, 32 PSE/CL ⇒ 1.0, 32 PSE ⇒ 2.0

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 9.0 Lock vehicle via lock switch on front door or trunk lid lock switch (only USA J).	Turn mechanical key in front door lock switch or trunk lid lock switch towards unlock.	All doors, trunk lid and filler flap lock in 3 sec.	Vehicle does not lock and pump motor in PSE control module (A37) does not run : Wiring, PSE (A37). Vehicle does not lock even though pump motor in PSE control module (A37) runs : 4.9 23, 4.9 23, 32 PSE/CL ⇒ 2.0, 32 PSE ⇒ 1.0


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<p>⇒ 10.0 Subsequent locking of vehicle via remote central locking (RCL).</p>	<p>Remove ignition key. Lock vehicle via RCL. Unlock vehicle via RCL. Do not open any doors within 40 seconds. Do not press interior switch (CL).</p>	<p>All doors and filler flap lock.</p>	<p>Vehicle does not lock and pump motor in PSE control module (A37) does not run: PSE version coding incorrect, see 3.4 PSE C/2, Wiring, PSE (A37).</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs:</p> <p>23 PSE/CL ⇒ 2.0, 23 PSE/CL ⇒ 3.0, 23 PSE/CL ⇒ 4.0, 23 PSE/CL ⇒ 5.0, 32 PSE/CL ⇒ 2.0, 32 PSE/CL ⇒ 4.0, 32 PSE/CL ⇒ 6.0, 32 PSE ⇒ 1.0, 32 PSE ⇒ 3.0 32 PSE ⇒ 5.0</p>

1) Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
<p>⇒ 11.0 Automatic locking of vehicle via remote central locking (RCL).</p>	<p>"Automatic locking activated". Drive vehicle with a speed of 9mph.  The "Automatic locking" feature should not have been deactivated via the CL interior switch (S6s1) or via the HHT.</p>	<p>All doors lock. Fuel filler flap does not lock.</p>	<p>Vehicle does not lock and pump motor in PSE control module (A37) does not run: PSE version coding incorrect, see 3.4 PSE C/2, Wiring, PSE (A37).</p> <p>Vehicle does not unlock even though pump motor in PSE control module (A37) runs:</p> <p>32 PSE/CL ⇒ 2.0, 32 PSE/CL ⇒ 4.0, 32 PSE ⇒ 1.0, 32 PSE ⇒ 3.0</p>

1) Observe Preparation for Test, see 22.