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2009 NISSAN Titan King Cab OEM Service and Repair Workshop Manual

[Go to manual page](#)

DTC	CONSULT screen items	EV system warning lamp	Trip	HIGH VOLTAGE BATTERY (Main CPU)	HIGH VOLTAGE BATTERY 2 (Sub CPU)	Reference
P1B65-13	Cell voltage circuit (Module 6)		1	X		Refer to DTC Description .
P1B65-F1	Cell voltage circuit (Module 6)		1	X		Refer to DTC Description .
P1B65-F2	Cell voltage circuit (Module 6)		1	X		Refer to DTC Description .
P1B66-12	Cell voltage circuit (Module 7)		1	X		Refer to DTC Description .
P1B66-13	Cell voltage circuit (Module 7)		1	X		Refer to DTC Description .
P1B66-F1	Cell voltage circuit (Module 7)		1	X		Refer to DTC Description .
P1B66-F2	Cell voltage circuit (Module 7)		1	X		Refer to DTC Description .
P1B67-12	Cell voltage circuit (Module 8)		1	X		Refer to DTC Description .
P1B67-13	Cell voltage circuit (Module 8)		1	X		Refer to DTC Description .
P1B67-F1	Cell voltage circuit (Module 8)		1	X		Refer to DTC Description .
P1B67-F2	Cell voltage circuit (Module 8)		1	X		Refer to DTC Description .
P1B68-12	Cell voltage circuit (Module 9)		1	X		Refer to DTC Description .
P1B68-13	Cell voltage circuit (Module 9)		1	X		Refer to DTC Description .
P1B68-F1	Cell voltage circuit (Module 9)		1	X		Refer to DTC Description .
P1B68-F2	Cell voltage circuit (Module 9)		1	X		Refer to DTC Description .
P1B69-12	Cell voltage circuit (Module 10)		1	X		Refer to DTC Description .
P1B69-13	Cell voltage circuit (Module 10)		1	X		Refer to DTC Description .
P1B69-F1	Cell voltage circuit (Module 10)		1	X		Refer to DTC Description .
P1B69-F2	Cell voltage circuit (Module 10)		1	X		Refer to DTC Description .
P1B6A-12	Cell voltage circuit (Module 11)		1	X		Refer to DTC Description .
P1B6A-13	Cell voltage circuit (Module 11)		1	X		Refer to DTC Description .
P1B6A-F1	Cell voltage circuit (Module 11)		1	X		Refer to DTC Description .
P1B6A-F2	Cell voltage circuit (Module 11)		1	X		Refer to DTC Description .
P1B6B-12	Cell voltage circuit (Module 12)		1	X		Refer to DTC Description .

DTC	CONSULT screen items	EV system warning lamp	Trip	HIGH VOLTAGE BATTERY (Main CPU)	HIGH VOLTAGE BATTERY 2 (Sub CPU)	Reference
P1B6B-13	Cell voltage circuit (Module 12)		1	X		Refer to DTC Description .
P1B6B-F1	Cell voltage circuit (Module 12)		1	X		Refer to DTC Description .
P1B6B-F2	Cell voltage circuit (Module 12)		1	X		Refer to DTC Description .
P1B6C-12	Cell voltage circuit (Module 13)		1	X		Refer to DTC Description .
P1B6C-13	Cell voltage circuit (Module 13)		1	X		Refer to DTC Description .
P1B6C-F1	Cell voltage circuit (Module 13)		1	X		Refer to DTC Description .
P1B6C-F2	Cell voltage circuit (Module 13)		1	X		Refer to DTC Description .
P1B6D-12	Cell voltage circuit (Module 14)		1	X		Refer to DTC Description .
P1B6D-13	Cell voltage circuit (Module 14)		1	X		Refer to DTC Description .
P1B6D-F1	Cell voltage circuit (Module 14)		1	X		Refer to DTC Description .
P1B6D-F2	Cell voltage circuit (Module 14)		1	X		Refer to DTC Description .
P1B6E-12	Cell voltage circuit (Module 15)		1	X		Refer to DTC Description .
P1B6E-13	Cell voltage circuit (Module 15)		1	X		Refer to DTC Description .
P1B6E-F1	Cell voltage circuit (Module 15)		1	X		Refer to DTC Description .
P1B6E-F2	Cell voltage circuit (Module 15)		1	X		Refer to DTC Description .
P1B6F-12	Cell voltage circuit (Module 16)		1	X		Refer to DTC Description .
P1B6F-13	Cell voltage circuit (Module 16)		1	X		Refer to DTC Description .
P1B6F-F1	Cell voltage circuit (Module 16)		1	X		Refer to DTC Description .
P1B6F-F2	Cell voltage circuit (Module 16)		1	X		Refer to DTC Description .
P1BA0-16	Power supply voltage	X	1		X	Refer to DTC Description .
P1BA1-12	Cell voltage circuit	X	1		X	Refer to DTC Description .
P1BA1-13	Cell voltage circuit	X	1		X	Refer to DTC Description .
P1BA1-16	Cell voltage circuit	X	1		X	Refer to DTC Description .
P1BA1-F1	Cell voltage circuit	X	1		X	Refer to DTC Description .

DTC	CONSULT screen items	EV system warning lamp	Trip	HIGH VOLTAGE BATTERY (Main CPU)	HIGH VOLTAGE BATTERY 2 (Sub CPU)	Reference
P1BA2-49	Battery voltage isolation circuit	X	1		X	Refer to DTC Description .
P1BAD-41	Li-ion battery controller	X	1		X	Refer to DTC Description .
P1BAE-41	Li-ion battery controller	X	1		X	Refer to DTC Description .
P1BB1-08	Li-ion battery communication	X	1 or 2		X	Refer to DTC Description .
P1BB2-04	ASIC	X	1		X	Refer to DTC Description .
P1BB2-12	ASIC	X	1		X	Refer to DTC Description .
P1BB2-38	ASIC	X	1		X	Refer to DTC Description .
P1BB2-49	ASIC	X	1		X	Refer to DTC Description .
P1BB4-98	Battery pack temperature	X	1		X	Refer to DTC Description .
P1BB5-81	Current sensor	X	1		X	Refer to DTC Description .
P1BB5-87	Current sensor	X	1		X	Refer to DTC Description .
P1BB6-43	FOTA	X	1		X	Refer to DTC Description .
P1BB6-49	FOTA	X	1		X	Refer to DTC Description .
P1BB7-11	Module temperature sensor	X	1		X	Refer to DTC Description .
P1BB7-15	Module temperature sensor	X	1		X	Refer to DTC Description .
U2142-87	CAN communication error (Inverter MG/MG)	X	1	X		Refer to DTC Description .
U2143-87	CAN communication error (VCM/HCM)	X	1	X		Refer to DTC Description .
U2144-87	CAN communication	X	1		X	Refer to DTC Description .
U3D00-06	FOTA		1	X		Refer to DTC Description .
U3D00-41	FOTA		1	X		Refer to DTC Description .
U3D00-51	FOTA		1	X		Refer to DTC Description .
U3D01-06	FOTA		1	X		Refer to DTC Description .
U3D01-41	FOTA		1	X		Refer to DTC Description .
U3D01-51	FOTA		1	X		Refer to DTC Description .



Values On The Diagnosis Tool



NOTE:

- Specification data are reference values.
- The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

HIGH VOLTAGE BATTERY (MAIN CPU)

Monitor item	Condition	Values / Status
Battery SOC	Power switch ON	0 - 100 %
Battery pack voltage	Power switch ON	269 - 402 V
Total battery voltage	Power switch ON	269 - 402 V
Maximum cell voltage	Power switch ON	Displays maximum cell voltage of each cell.
Maximum voltage cell No	Power switch ON	Displays cell No. that shows maximum voltage of each cell. <div style="border: 1px solid black; padding: 5px;">  <p>NOTE: Cell No. is shown 0 to 95. For comparison, Refer to Component Description.</p> </div>
Minimum cell voltage	Power switch ON	Displays minimum cell voltage of each cell.
Minimum voltage cell No	Power switch ON	Displays cell No. that shows minimum voltage of each cell. <div style="border: 1px solid black; padding: 5px;">  <p>NOTE: Cell No. is shown 0 to 95. For comparison, Refer to Component Description.</p> </div>
Battery current	READY (Vehicle at stop)	(-10) - (+10) A
Power supply voltage	READY	9 - 14 V
Average temperature	READY	(-40) - (+70)°C
Lowest module temperature	Power switch ON	Displays minimum module temperature
Highest module temperature	Power switch ON	Displays maximum module temperature
Cell voltage 01	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 02	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 03	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 04	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 05	READY (Vehicle at stop)	2.5 - 4.2 V

Monitor item	Condition	Values / Status
Cell voltage 06	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 07	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 08	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 09	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 10	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 11	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 12	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 13	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 14	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 15	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 16	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 17	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 18	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 19	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 20	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 21	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 22	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 23	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 24	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 25	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 26	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 27	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 28	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 29	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 30	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 31	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 32	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 33	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 34	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 35	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 36	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 37	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 38	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 39	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 40	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 41	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 42	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 43	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 44	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 45	READY (Vehicle at stop)	2.5 - 4.2 V

Monitor item	Condition	Values / Status
Cell voltage 46	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 47	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 48	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 49	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 50	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 51	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 52	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 53	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 54	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 55	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 56	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 57	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 58	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 59	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 60	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 61	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 62	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 63	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 64	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 65	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 66	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 67	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 68	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 69	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 70	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 71	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 72	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 73	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 74	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 75	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 76	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 77	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 78	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 79	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 80	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 81	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 82	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 83	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 84	READY (Vehicle at stop)	2.5 - 4.2 V
Cell voltage 85	READY (Vehicle at stop)	2.5 - 4.2 V

Monitor item	Condition		Values / Status
Cell voltage 86	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 87	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 88	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 89	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 90	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 91	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 92	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 93	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 94	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 95	READY (Vehicle at stop)		2.5 - 4.2 V
Cell voltage 96	READY (Vehicle at stop)		2.5 - 4.2 V
Cell controller status 08	Power switch ON	Cell controller 8 is normal	OK
		Malfunction is detected at cell controller 8	NG
Cell controller status 07	Power switch ON	Cell controller 7 is normal	OK
		Malfunction is detected at cell controller 7	NG
Cell controller status 06	Power switch ON	Cell controller 6 is normal	OK
		Malfunction is detected at cell controller 6	NG
Cell controller status 05	Power switch ON	Cell controller 5 is normal	OK
		Malfunction is detected at cell controller 5	NG
Cell controller status 04	Power switch ON	Cell controller 4 is normal	OK
		Malfunction is detected at cell controller 4	NG
Cell controller status 03	Power switch ON	Cell controller 3 is normal	OK
		Malfunction is detected at cell controller 3	NG
Cell controller status 02	Power switch ON	Cell controller 2 is normal	OK
		Malfunction is detected at cell controller 2	NG
Cell controller status 01	Power switch ON	Cell controller 1 is normal	OK
		Malfunction is detected at cell controller 1	NG
Battery pack temp status	Power switch ON	Battery pack temperature sensor is normal	OK
		Open circuit or short to batter is detected at battery pack temperature sensor circuit.	Open / Short to wire
		Short to ground is detected at battery pack temperature sensor circuit.	Short to ground
Current sensor power supply voltage	Power switch ON		7 - 16 V
Module temperature 01	Power switch ON		(-40) - (+70)°C
Module temperature 02	Power switch ON		(-40) - (+70)°C
Module temperature 03	Power switch ON		(-40) - (+70)°C
Module temperature 04	Power switch ON		(-40) - (+70)°C
Module temperature	Power switch ON		(-40) - (+70)°C

Monitor item	Condition		Values / Status
05			
Module temperature 06	Power switch ON		(-40) - (+70)°C
Module temperature 07	Power switch ON		(-40) - (+70)°C
Module temperature 08	Power switch ON		(-40) - (+70)°C
Module temperature 09	Power switch ON		(-40) - (+70)°C
Module temperature 10	Power switch ON		(-40) - (+70)°C
Module temperature 11	Power switch ON		(-40) - (+70)°C
Module temperature 12	Power switch ON		(-40) - (+70)°C
Battery SOC (Minimum)	Power switch ON		0 - 100 %
Battery SOC (Maximum)	Power switch ON		0 - 100 %
Battery pack activation time	Power switch ON		Displays LBC startup time (min)
Water temperature	Power switch ON		(-40) - (+70)°C
Battery pack total mileage	Power switch ON		Displays total mileage of battery pack (km)
Interlock switch 1	Power switch ON		Displays lock status of high voltage harness (FR) and service plug
Interlock switch 2	Power switch ON		Displays lock status of high voltage harness (PTC)
Interlock switch 3	Power switch ON		Displays lock status of high voltage harness (RR)
Interlock switch 4	Power switch ON		Displays lock status of high voltage harness (QC)
Relay 4 control request	Power switch ON		Displays quick charge relay control request status
Relay 4 status	Power switch ON		Displays status of quick charge relay controller
Highest temperature module	Power switch ON		Displays module No. that shows maximum temperature
Lowest temperature module	Power switch ON		Displays module No. that shows minimum temperature
Cell condition 96	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 95	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 94	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG

Monitor item	Condition		Values / Status
Cell condition 93	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 92	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 91	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 90	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 89	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 88	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 87	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 86	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 85	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 84	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 83	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 82	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 81	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 80	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 79	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition 78	Power switch ON	Cell is normal	OK