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2009 NISSAN XTerra OEM Service and Repair Workshop Manual




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Monitor item	Condition		Values / Status
Cell condition2 34	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 33	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 32	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 31	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 30	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 29	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 28	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 27	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 26	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 25	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 24	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 23	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 22	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 21	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 20	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 19	Power switch ON	Cell is normal	OK

Monitor item	Condition		Values / Status
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 18	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 17	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 16	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 15	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 14	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 13	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 12	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 11	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 10	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 09	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 08	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 07	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 06	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 05	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 04	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG

Monitor item	Condition		Values / Status
Cell condition2 03	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 02	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
Cell condition2 01	Power switch ON	Cell is normal	OK
		Cell malfunction is detected with cell diagnosis	NG
CPU reset status	Power switch ON	Displays main CPU reset status	
Vehicle ID	Power switch ON	Displays VIN	
Vehicle total distance	Power switch ON	Displays mileage of vehicle (km)	
Power switch ON time	Power switch ON	Displays duration of power switch ON (min)	
Battery information	Power switch ON	0 - 100 %	

HIGH VOLTAGE BATTERY 2 (SUB CPU)

Monitor item	Condition	Values / Status
Maximum voltage cell No	Power switch ON	<p>Displays cell No. that shows maximum voltage of each cell.</p> <div style="border: 1px solid green; padding: 5px;">  NOTE: Cell No. is shown 0 to 95. For comparison, Refer to Component Description. </div>
Minimum voltage cell No	Power switch ON	<p>Displays cell No. that shows minimum voltage of each cell.</p> <div style="border: 1px solid green; padding: 5px;">  NOTE: Cell No. is shown 0 to 95. For comparison, Refer to Component Description. </div>
Insulation resistance	Power switch ON	<p>1,300,000 Ω</p> <div style="border: 1px solid green; padding: 5px;">  NOTE: Since the insulation resistance is not displayed above the upper limit of the display range, it may differ from the actual insulation resistance value. </div>
Insulation resistance sensor	Power switch ON	0.40 - 0.44 V
Sub CPU power supply voltage	Power switch ON	9 - 14 V
Relay status	Pre-charge relay ON status	Pre-charge
	Main relay 1 and main relay 2 are ON status	On

Monitor item	Condition	Values / Status
	Main relay 1 and main relay 3 are ON status	Off
	Relay ON / OFF transition	Operating
	Checking status by VCM	Relay P check
	Checking status by VCM	Relay N check

Sample

Refer to [Fail-safe](#).

Sample

DTC Inspection Priority Chart

SIEMD-7377547

Diagnosis priority (Group)	DTC	
1	P1B00-16	Power supply voltage
	P1BA0-16	Power supply voltage
	U2142-87	CAN communication error (Inverter MG/MG)
	U2143-87	CAN communication error (VCM/HCM)
	U2144-87	CAN communication
2	P1B0C-98	Battery pack temperature
	P1B0C-FB	Battery pack temperature
	P1B0D-41	Li-ion battery controller
	P1B0E-41	Li-ion battery controller
	P1B0F-49	Li-ion battery controller
	P1B12-04	ASIC
	P1B12-08	ASIC
	P1B12-12	ASIC
	P1B12-13	ASIC
	P1B12-38	ASIC
	P1B12-41	ASIC
	P1B12-49	ASIC
	P1B12-96	ASIC
	P1B21-43	FOTA
	U3D00-06	FOTA
	U3D00-41	FOTA
	U3D00-51	FOTA
	U3D01-06	FOTA
	U3D01-41	FOTA
	U3D01-51	FOTA
	P1BA2-49	Battery voltage isolation circuit
	P1BAD-41	Li-ion battery controller
	P1BAE-41	Li-ion battery controller
	P1BB1-08	Li-ion battery communication
	P1BB2-04	ASIC
	P1BB2-12	ASIC
	P1BB2-38	ASIC
	P1BB2-49	ASIC
	P1BB4-98	Battery pack temperature
	P1BB6-43	FOTA
P1BB6-49	FOTA	
3	P1B01-12	Cell voltage circuit
	P1B01-13	Cell voltage circuit

Diagnosis priority (Group)	DTC	
	P1B01-62	Cell voltage circuit
	P1B01-F1	Cell voltage circuit
	P1B01-F2	Cell voltage circuit
	P1B03-01	Current sensor
	P1B04-11	Module temperature sensor
	P1B04-15	Module temperature sensor
	P1B04-62	Module temperature sensor
	P1B05-11	Module temperature sensor
	P1B05-15	Module temperature sensor
	P1B05-62	Module temperature sensor
	P1B07-11	Water temperature sensor A
	P1B07-15	Water temperature sensor A
	P1B15-11	High voltage relay thermistor
	P1B15-15	High voltage relay thermistor
	P1B18-11	Interlock detecting switch 1
	P1B18-12	Interlock detecting switch 1
	P1B18-15	Interlock detecting switch 1
	P1B19-11	Interlock detecting switch 2
	P1B19-12	Interlock detecting switch 2
	P1B19-15	Interlock detecting switch 2
	P1B1A-11	Interlock detecting switch 3
	P1B1A-12	Interlock detecting switch 3
	P1B1A-15	Interlock detecting switch 3
	P1B1B-11	Interlock detecting switch 4
	P1B1B-12	Interlock detecting switch 4
	P1B1B-15	Interlock detecting switch 4
	P1B1E-1C	Current sensor
	P1B1F-81	Current sensor
	P1B1F-87	Current sensor
	P1B20-11	Relay 4 control circuit
	P1B20-15	Relay 4 control circuit
	P1B30-11	Module temperature sensor 1
	P1B30-15	Module temperature sensor 1
	P1B30-62	Module temperature sensor 1
	P1B31-11	Module temperature sensor 2
	P1B31-15	Module temperature sensor 2
	P1B31-62	Module temperature sensor 2
	P1B32-11	Module temperature sensor 3
	P1B32-15	Module temperature sensor 3
	P1B32-62	Module temperature sensor 3

Diagnosis priority (Group)	DTC	
	P1B33-11	Module temperature sensor 4
	P1B33-15	Module temperature sensor 4
	P1B33-62	Module temperature sensor 4
	P1B34-11	Module temperature sensor 5
	P1B34-15	Module temperature sensor 5
	P1B34-62	Module temperature sensor 5
	P1B35-11	Module temperature sensor 6
	P1B35-15	Module temperature sensor 6
	P1B35-62	Module temperature sensor 6
	P1B36-11	Module temperature sensor 7
	P1B36-15	Module temperature sensor 7
	P1B36-62	Module temperature sensor 7
	P1B37-11	Module temperature sensor 8
	P1B37-15	Module temperature sensor 8
	P1B37-62	Module temperature sensor 8
	P1B38-11	Module temperature sensor 9
	P1B38-15	Module temperature sensor 9
	P1B38-62	Module temperature sensor 9
	P1B39-11	Module temperature sensor 10
	P1B39-15	Module temperature sensor 10
	P1B39-62	Module temperature sensor 10
	P1B3A-11	Module temperature sensor 11
	P1B3A-15	Module temperature sensor 11
	P1B3A-62	Module temperature sensor 11
	P1B3B-11	Module temperature sensor 12
	P1B3B-15	Module temperature sensor 12
	P1B3B-62	Module temperature sensor 12
	P1B3C-11	Module temperature sensor 13
	P1B3C-15	Module temperature sensor 13
	P1B3C-62	Module temperature sensor 13
	P1B3D-11	Module temperature sensor 14
	P1B3D-15	Module temperature sensor 14
	P1B3D-62	Module temperature sensor 14
	P1B3E-11	Module temperature sensor 15
	P1B3E-15	Module temperature sensor 15
	P1B3E-62	Module temperature sensor 15
	P1B3F-11	Module temperature sensor 16
	P1B3F-15	Module temperature sensor 16
	P1B3F-62	Module temperature sensor 16
	P1B60-12	Cell voltage circuit (Module 1)

Diagnosis priority (Group)	DTC	
	P1B60-13	Cell voltage circuit (Module 1)
	P1B60-F1	Cell voltage circuit (Module 1)
	P1B60-F2	Cell voltage circuit (Module 1)
	P1B61-12	Cell voltage circuit (Module 2)
	P1B61-13	Cell voltage circuit (Module 2)
	P1B61-F1	Cell voltage circuit (Module 2)
	P1B61-F2	Cell voltage circuit (Module 2)
	P1B62-12	Cell voltage circuit (Module 3)
	P1B62-13	Cell voltage circuit (Module 3)
	P1B62-F1	Cell voltage circuit (Module 3)
	P1B62-F2	Cell voltage circuit (Module 3)
	P1B63-12	Cell voltage circuit (Module 4)
	P1B63-13	Cell voltage circuit (Module 4)
	P1B63-F1	Cell voltage circuit (Module 4)
	P1B63-F2	Cell voltage circuit (Module 4)
	P1B64-12	Cell voltage circuit (Module 5)
	P1B64-13	Cell voltage circuit (Module 5)
	P1B64-F1	Cell voltage circuit (Module 5)
	P1B64-F2	Cell voltage circuit (Module 5)
	P1B65-12	Cell voltage circuit (Module 6)
	P1B65-13	Cell voltage circuit (Module 6)
	P1B65-F1	Cell voltage circuit (Module 6)
	P1B65-F2	Cell voltage circuit (Module 6)
	P1B66-12	Cell voltage circuit (Module 7)
	P1B66-13	Cell voltage circuit (Module 7)
	P1B66-F1	Cell voltage circuit (Module 7)
	P1B66-F2	Cell voltage circuit (Module 7)
	P1B67-12	Cell voltage circuit (Module 8)
	P1B67-13	Cell voltage circuit (Module 8)
	P1B67-F1	Cell voltage circuit (Module 8)
	P1B67-F2	Cell voltage circuit (Module 8)
	P1B68-12	Cell voltage circuit (Module 9)
	P1B68-13	Cell voltage circuit (Module 9)
	P1B68-F1	Cell voltage circuit (Module 9)
	P1B68-F2	Cell voltage circuit (Module 9)
	P1B69-12	Cell voltage circuit (Module 10)
	P1B69-13	Cell voltage circuit (Module 10)
	P1B69-F1	Cell voltage circuit (Module 10)
	P1B69-F2	Cell voltage circuit (Module 10)
	P1B6A-12	Cell voltage circuit (Module 11)