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2015 Nissan Altima Service and Repair Manual

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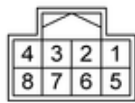
DTC Index

SIEMD-7198955

x: Applicable —: Not applicable

DTC	Self-diagnosis item (CONSULT screen items)	EV system warning lamp	Trip	Reference
B2B01-87	Communication error	—	1	DTC Description
B2B02-87	Communication error	—	1	DTC Description
B2B03-96	Internal error	—	1	DTC Description
B2B04-55	Configuration	—	1	DTC Description
B2B05-16	Voltage too low	—	1	DTC Description
B2B05-17	Voltage too low	—	1	DTC Description
B2B0C-68	Communication error	—	1	DTC Description
B2B0D-68	Communication error	—	1	DTC Description
B2B0E-68	Communication error	—	1	DTC Description
B2B0F-68	Communication error	—	1	DTC Description
B2B10-68	Communication error	—	1	DTC Description
B2B11-68	Communication error	—	1	DTC Description
B2B12-68	Communication error	—	1	DTC Description
B2B13-68	Communication error	—	1	DTC Description
B2B15-68	Communication error	—	1	DTC Description
B2B17-68	Communication error	—	1	DTC Description
B2B18-68	Communication error	—	1	DTC Description
B2B19-68	Communication error	—	1	DTC Description
B2B1A-68	Charging device	—	1	DTC Description
B2B1C-68	Charge error	—	1	DTC Description
B2B1D-87	Communication error	—	1	
B2B1E-68	Charge error	—	1	DTC Description
B2B1F-04	Communication error	—	1	DTC Description
U0079-00	Control module communication Bus G Off	—	1	DTC Description
U2143-87	CAN communication error (VCM/HCM)	—	1	DTC Description
U214F-87	CAN communication error (BCM)	—	1	DTC Description

TERMINAL LAYOUT



SIEMD-7091390-01-000377098

PHYSICAL VALUES


NOTE:

Specification data in the following table are reference values.

Terminal No. (Wire color)		Item		Condition	Reference value
+	-	Signal name	Input/Output		
1 (R)	8 (B)	12V BATTERY POWER SUPPLY	Input	Power switch: OFF	9.0 - 16.0 V
3 (SB)	—	CAN-H	Input/Output	—	—
4 (V)	—	CAN-L	Input/Output	—	—
8 (B)	—	GROUND	—	—	—
9 (BR)	—	GROUND	—	—	—
10 (G)	—	EVSE COMMUNICATION	Input/Output	—	—

DTC	Self-diagnosis item (CONSULT screen items)	12V system charge warning lamp	Mask warning lamp	EV system warning lamp	Trip	Reference
P1AA5-A2	Control unit supply voltage	x	—	x	1	DTC Description
P1AA6-9E	Input voltage sensor/ECU switch	—	—	—	1	DTC Description
P1AA6-9F	Input voltage sensor/ECU switch	—	—	—	1	DTC Description
P1AA6-A2	Input voltage sensor/ECU switch	—	—	x	1	DTC Description
P1AA6-A3	Input voltage sensor/ECU switch	—	—	x	1	DTC Description
P1AA7-A2	Voltage supply error	—	x	x	1	DTC Description
P1AA7-A3	Voltage supply error	—	x	x	1	DTC Description
P1AA8-A2	Voltage supply error	x	—	x	1	DTC Description
P1AA8-A3	Voltage supply error	x	—	x	1	DTC Description
P1AA9-21	Low voltage current sensor error 1	—	x	x	1	DTC Description
P1AA9-22	Low voltage current sensor error 1	—	x	x	1	DTC Description
P1AA9-48	Low voltage current sensor error 1	—	x	x	1	DTC Description
P1AA9-64	Low voltage current sensor error 1	—	—	x	1	DTC Description
P1AAA-21	Low voltage current sensor error 2	—	x	x	1	DTC Description
P1AAA-22	Low voltage current sensor error 2	—	x	x	1	DTC Description
P1AAA-48	Low voltage current sensor error 2	—	x	x	1	DTC Description
P1AAA-64	Low voltage current sensor error 2	—	—	x	1	DTC Description
P1AAB-18	High voltage current sensor error 1	—	—	x	1	DTC Description
P1AAB-19	High voltage current sensor error 1	—	—	x	1	DTC Description
P1AAB-64	High voltage current sensor error 1	—	—	x	1	DTC Description
P1AAC-18	High voltage current sensor error 2	—	—	x	1	DTC Description
P1AAC-19	High voltage current sensor error 2	—	—	x	1	DTC Description
P1AAC-64	High voltage current sensor error 2	—	—	x	1	DTC Description

DTC	Self-diagnosis item (CONSULT screen items)	12V system charge warning lamp	Mask warning lamp	EV system warning lamp	Trip	Reference
P1AAD-18	High voltage current sensor error	—	x	x	1	DTC Description
P1AAD-19	High voltage current sensor error	—	x	x	1	DTC Description
P1AAD-48	High voltage current sensor error	x	—	x	1	DTC Description
P1AAD-49	High voltage current sensor error	—	x	x	1	DTC Description
P1AAD-64	High voltage current sensor error	—	x	x	1	DTC Description
P1AAE-31	Temperature sensor/System error 1	—	—	x	1	DTC Description
P1AAE-39	Temperature sensor/System error 1	—	—	x	1	DTC Description
P1AAE-3A	Temperature sensor/System error 1	—	—	x	1	DTC Description
P1AAE-4B	Temperature sensor/System error 1	—	—	—	1	DTC Description
P1AAF-31	Temperature sensor/System error 2	—	—	x	1	DTC Description
P1AAF-39	Temperature sensor/System error 2	—	—	x	1	DTC Description
P1AAF-3A	Temperature sensor/System error 2	—	—	x	1	DTC Description
P1AAF-4B	Temperature sensor/System error 2	—	—	—	1	DTC Description
P1AB0-64	Coolant temperature	—	—	x	1	DTC Description
P1AB1-16	Low voltage sensor error	—	x	x	1	DTC Description
P1AB1-17	Low voltage sensor error	—	x	x	1	DTC Description
P1AB1-1C	Low voltage sensor error	—	x	x	1	DTC Description
P1AB1-49	Low voltage sensor error	—	x	x	1	DTC Description
P1AB2-16	Low voltage sensor error	x	—	x	1	DTC Description
P1AB2-17	Low voltage sensor error	x	—	x	1	DTC Description
P1AB2-48	Low voltage sensor error	x	—	x	1	DTC Description
P1AB2-64	Low voltage sensor error	x	—	x	1	DTC Description
P1AB3-16	Low rectifier voltage sensor error 1	—	x	x	1	DTC Description
P1AB3-17	Low rectifier voltage sensor error 1	—	x	x	1	DTC Description

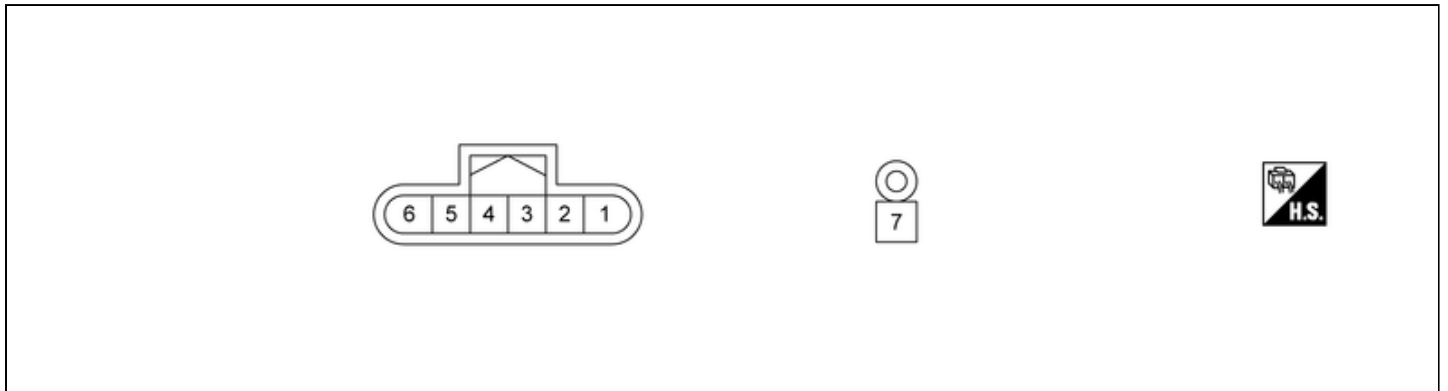
DTC	Self-diagnosis item (CONSULT screen items)	12V system charge warning lamp	Mask warning lamp	EV system warning lamp	Trip	Reference
P1AB3-64	Low rectifier voltage sensor error 1	—	x	x	1	DTC Description
P1AB4-16	Low rectifier voltage sensor error 2	—	x	x	1	DTC Description
P1AB4-17	Low rectifier voltage sensor error 2	—	x	x	1	DTC Description
P1AB4-64	Low rectifier voltage sensor error 2	—	x	x	1	DTC Description
P1AB5-64	High voltage sensor error	x	—	x	1	DTC Description
P1AB7-44	Memory read error	—	—	—	1	DTC Description
P1AB8-44	Memory write error	—	—	—	1	DTC Description
P1AB9-4B	Coolant temperature	x	—	x	1	DTC Description
P1ABA-16	Low voltage value	x	—	x	1	DTC Description
P1ABA-17	Low voltage value	x	—	x	1	DTC Description
P1ABB-17	Low voltage output voltage	x	—	x	1	DTC Description
P1ABB-48	Low voltage output voltage	x	—	x	1	DTC Description
P1ABB-49	Low voltage output voltage	—	x	x	1	DTC Description
P1ABC-16	High voltage input voltage	x	—	x	1	DTC Description
P1ABC-17	High voltage input voltage	x	—	x	1	DTC Description
P1ABD-19	High voltage input current error 1	—	—	x	1	DTC Description
P1ABE-19	High voltage input current error 2	—	—	x	1	DTC Description
P1ABF-05	Internal error	x	—	x	1	DTC Description
P1AC0-48	Reverse current	—	x	x	1	DTC Description
P1AC1-F0	Low voltage reverse current	—	—	x	1	DTC Description
P1AC1-F1	Low voltage reverse current	—	—	x	1	DTC Description
P1AC1-F2	Low voltage reverse current	—	—	x	1	DTC Description
P1AC1-F3	Low voltage reverse current	—	—	x	1	DTC Description
P1AC1-F4	Low voltage reverse current	x	—	x	1	DTC Description

DTC	Self-diagnosis item (CONSULT screen items)	12V system charge warning lamp	Mask warning lamp	EV system warning lamp	Trip	Reference
P1AC2-48	Low voltage overvoltage	x	—	x	1	DTC Description
P1AC3-47	Internal error	—	—	x	1	DTC Description
P1AC3-F2	Internal error	x or —	—	x	1	DTC Description
P1AC3-F3	Internal error	x or —	—	x	1	DTC Description
P1AC3-FF	Internal error	—	—	x	1	DTC Description
P1AC4-87	Communication error	—	—	—	1	DTC Description
U1D50-88	Communication error	—	—	x	1	DTC Description
U2143-87	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F1	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F2	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F3	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F4	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F5	CAN communication error (VCM/HCM)	—	—	x	1	DTC Description
U2143-F6	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F7	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F8	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-F9	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-FA	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-FB	CAN communication error (VCM/HCM)	—	—	x	1	DTC Description
U2143-FC	CAN communication error (VCM/HCM)	—	—	x	1	DTC Description
U2143-FD	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2143-FE	CAN communication error (VCM/HCM)	—	—	—	1	DTC Description
U2144-86	CAN communication (LBC)	—	—	—	1	DTC Description
U2144-87	CAN communication (LBC)	—	—	—	1	DTC Description
U2144-8F	CAN communication (LBC)	—	—	—	1	DTC Description

DTC	Self-diagnosis item (CONSULT screen items)	12V system charge warning lamp	Mask warning lamp	EV system warning lamp	Trip	Reference
U215B-86	CAN communication error (IPDM E/R)	—	—	—	1	DTC Description
U215B-87	CAN communication error (IPDM E/R)	—	—	—	1	DTC Description
U215B-8F	CAN communication error (IPDM E/R)	—	—	—	1	DTC Description
U2A0F-88	Communication error	—	—	x	1	DTC Description

Sample

TERMINAL LAYOUT



SIEMD-7091387-01-000363807

PHYSICAL VALUES



NOTE:

Specification data in the following table are reference values.

Terminal No. (Wire color)		Item		Condition	Reference value
+	-	Signal name	Input/Output		
3 (L)	—	CAN-H (EV SYSTEM CAN 2 CIRCUIT)	Input/Output	—	—
4 (G)	—	CAN-L (EV SYSTEM CAN 2 CIRCUIT)	Input/Output	—	—
7 (B/Y)	—	12V battery output voltage	—	Power switch: OFF	—


NOTE:

- Specification data in the following table is reference values.
- The following data that the DC/DC converter transmits and receives input and output data may differ from an actual operation. The values in the table are calculated by in-vehicle charger based on signals from sensors.
- Charge does not start at power switch ON. If charge is required while power switch is ON, turn power switch OFF and charge starts and then power switch is ON.
- The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Condition	Values/Status
Input voltage	READY	240 - 440 V
DC/DC converter activation signal	Auto A/C state or READY state	DC/DC ON
	Except the above	DC/DC OFF
DC/DC converter status	<ul style="list-style-type: none"> • Auto A/C state or READY state • Receiving progress of generation command • DC/DC converter is not abnormal 	Direct
	<ul style="list-style-type: none"> • Auto A/C state or READY state • Start/End sequence of the DC/DC converter in progress 	Standby
	Except the above	Start
DC/DC converter output voltage command value	Auto A/C state or READY state	11.7 - 15.4 V
DC/DC converter output current	Auto A/C state or READY state	0 - 160 A
		0 - 250 A*
DC/DC converter temperature	Normal operation state	0-70 %
	Output limit state	70-99 %
	Output limit state	100 %
DC/DC converter available output current	Auto A/C state or READY state	0 - 160 A 0 - 250 A*
12V battery voltage	Auto A/C state or READY state	9 - 16 V
DC/DC converter input power	Auto A/C state or READY state	0 - 4.5 kW
DC/DC converter error type	Normal operation state	Not malfunction
		Type 4
	Output stop state	Type 1
		Type 2

*: Pro-Pilot 2.0 specification model