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2014 NISSAN Altima Sedan OEM Service and Repair Workshop Manual

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ON-BOARD CHARGER

CONSULT display	Fail safe operation
P0D22-00	Normal charge is stopped
P0D2A-00	
P0D3A-00	
P0D3B-00	
P0D3F-00	
P0D40-00	
P0D4E-00	
P0D4F-00	
P0D53-00	
P0D54-00	
P0D67-00	
P0D85-00	
P0E5E-00	
P1C50-43	Normal charge is paused
P1C50-4B	
P1C60-19	Normal charge is stopped
P1C61-82	
P1C62-82	
P1C63-97	
P1C64-17	
P1C64-38	
U1D40-87	
U2143-83	
U2143-87	
U2144-83	
U2A0F-88	


CPLC

CONSULT display	Fail safe operation
B2B01-87	Quick charge is stopped
B2B02-87	
B2B0C-68	
B2B0D-68	
B2B0E-68	
B2B0F-68	
B2B10-68	

CONSULT display	Fail safe operation
B2B11-68	
B2B12-68	
B2B13-68	
B2B15-68	
B2B17-68	
B2B18-68	
B2B19-68	
B2B1A-68	
B2B1C-68	
B2B1D-87	
B2B1E-68	
B2B1F-04	
U0079-00	
U2143-87	
U214F-87	

DC/DC converter

CONSULT display	Fail safe operation	
P1AA8-A2	DC/DC converter output is stopped	
P1AA8-A3		
P1AA9-64	DC/DC converter output current is stopped	
P1AAA-64		
P1AAB-18		
P1AAB-19		
P1AAB-64		
P1AAC-18		
P1AAC-19		
P1AAC-64	DC/DC converter output is stopped	
P1AAD-48		
P1AAE-31		DC/DC converter output current is stopped
P1AAE-39		
P1AAE-3A		
P1AAE-4B		
P1AAF-31		
P1AAF-39		

CONSULT display	Fail safe operation
P1AAF-3A	
P1AAF-4B	
P1AB0-64	
P1AB2-16	DC/DC converter output is stopped
P1AB2-17	
P1AB2-48	
P1AB2-64	
P1AB5-64	
P1AB9-4B	DC/DC converter output is stopped
P1ABA-16	
P1ABA-17	
P1ABB-17	
P1ABB-48	
P1ABC-16	
P1ABC-17	DC/DC converter output current is stopped
P1ABD-19	
P1ABE-19	DC/DC converter output is stopped
P1ABF-05	
P1AC1-F0	DC/DC converter output current is stopped
P1AC1-F1	
P1AC1-F2	
P1AC1-F3	
P1AC1-F4	DC/DC converter output is stopped
P1AC2-48	
P1AC3-F2	DC/DC converter output current is limited.  NOTE: When P1AC3-F2 and P1AC3-F3 are detected at the same time, DC/DC converter output is stopped.
P1AC3-F3	
U1D50-88	DC/DC converter output voltage is fixed.
U2143-F1	<ul style="list-style-type: none"> High voltage is less than 30 V: DC/DC converter is sleep status. High voltage is 30 V or more: Status of DC/DC converter is fixed to the status before DTC occurred.
U2143-F5	DC/DC converter output voltage is fixed.
U2143-F7	<ul style="list-style-type: none"> High voltage is less than 30 V: DC/DC converter is sleep status.

CONSULT display	Fail safe operation
	<ul style="list-style-type: none"> High voltage is 30 V or more: Status of DC/DC converter is fixed to the status before DTC occurred.
U2143-FB	DC/DC converter output voltage is fixed.
U2143-FC	
U2143-FD	<ul style="list-style-type: none"> High voltage is less than 30 V: DC/DC converter is sleep status. High voltage is 30 V or more: Status of Dc/DC converter is fixed to the status before DTC occurred.
U2A0F-88	DC/DC converter output voltage is fixed.

Sample

WARNING LAMP / INDICATOR LAMP

Item	Location/Function
Plug in indicator lamp	For location, Refer to Design .
	For function, Refer to Plug In Indicator Lamp .

WARNING LAMP / INDICATOR LAMP (VEHICLE INFORMATION DISPLAY)

Item	Location/Function
Remove charge connector warning	Refer to System Description .

Sample

HANDLING OF CHARGE CABLE, CHARGE PORT, AND CHARGE CONNECTOR

- Never touch metal terminals of the charge port or the charge connector.
- Never modify or disassemble control box, socket, charge cable, charge connector, or charge port.
- Never apply excessive force to the charge cable.
 - Never pull.
 - Never twist.
 - Never drag.
 - Never place a heavy item on charge cable.
 - Never place near a heating device (heater, etc.).
- Never drop or subject to strong impact.
- When storing, be sure to attach the cap to the connector before storing.
- When storing, store in a location away from direct sunlight, not exposed to rain or wind, and where dust and dirt do not enter.
- Use only with a designated socket especially wired for EV/PHEV with NISSAN recommended work or equivalent means. (This is because there is an extremely high risk of electric shock if the ground line is connected incorrectly.)
- Never allow the control box to be submerged in water.
- If you have a pacemaker or implantable cardioverter-defibrillator (ICD) implant, keep a distance of at least 15 cm between you and the EVSE control box.


PRECAUTIONS FOR CHARGING


- Use genuine NISSAN charge cables only.
- Never use an extension cord or conversion adapter except genuine NISSAN adapter.
- Be sure to use an independent specification current or higher charging station or socket.

Charge cable	Specification current
120V EVSE (L1)	12A
120V/240V EVSE with 120V outlet (L1/L2)	12A
120V/240V EVSE with 240V outlet (L1/L2)	30A
Charging device	According to the charging device operation manual.

- Never touch the plug or genuine NISSAN adapter with wet hands.
- If the male terminal of EVSE plug or genuine NISSAN adapter is dirty or wet, wipe it with a clean, dry cloth.
- If the female terminal of genuine NISSAN adapter is dirty or wet, clean it with an air blow gun.
- Check that there is no foreign material such as water or dust in the charge port or the charge connector or genuine NISSAN adapter.

WARNING:

-  Since there may be a risk of electric shock, never touch the charge connector or charge port or genuine NISSAN adapter if they contain foreign material.

-  **Since there may be a risk of electric shock or electric leakage, never connect the charge connector, charge port or genuine NISSAN adapter if they contain foreign material.**

- Never use the charge cable if it is worn, or if there are any deep scratches or other damage where the core wires are visible.
- Never use the EVSE charge connector, control box, plug or genuine NISSAN adapter if it is broken, scratched, cracked, or otherwise damaged.
- Check that there is no rust, corrosion, or damage on the charge port, charge connector or genuine NISSAN adapter. Check that there is no loosening at the time of connection.

WARNING:



Since electric leakage, electric shock, short-circuit, or fire may occur, never charge if any malfunction is found.

- Never perform charging when the connection is heavily exposed to water.
- Never perform charging with the body cover attached.
- Never perform charging when there may be a risk of lightning.
- Stop charging immediately when an unusual odor or smoke is found during charging.
- Never place hand near the cooling fan during charging.



NOTE:

The cooling fan may automatically start operation during charging when the power switch is turned OFF.

- After charging, securely close the cover and lid of the charge port to prevent entry of water or dust.
- To turn on READY after charging, operate after disconnecting the charge connector from the charge port.



NOTE:

When the charge connector is connected to the charge port, READY is disabled.

- To prevent electric shock or fire arising from electric leakage, use a waterproof plug with grounding connected to the ground fault interrupter.
- Never connect to a socket providing other than the rated voltage.

WARNING:

If electric outlet with a low current rating is used or if multi-outlets installed and used in combination with another device, electric outlet may cause the breaker down, abnormal heating or resulting in a fire.

- For charging, never use a generator or any other power source other than specified.



NOTE:

Charging may not be performed correctly or a malfunction may occur.

- When quick charging is performed, be sure to use a quick charger compatible with the vehicle.

EVSE

WARNING:

- **Precautions on the electrical outlet**

- Use a grounded electrical outlet that complies with standards and regulations.
- Do not use an electrical outlet if the Plug is loose when inserted in the outlet or if there is damage or corrosion on the outlet side.
- Before you connect the EVSE be sure to check the rated current shown on the EVSE to ensure that the outlet and circuit has enough current capacity to charge your vehicle safely.
- The EVSE draws a constant 12 A with 120 V outlet or 30 A with 240 V outlet, you must ensure that the outlet and household wiring used for charging is rated at this level and complies with the latest electrical wiring standard and regulations in your country or area.
- If in any doubt about the outlet and circuit, consult a qualified electrician.

CAUTION:

- Be sure to connect the EVSE to an outlet with the rated voltage only.
- The Control Box will become hot while the EVSE is charging. This is not a malfunction.

Charging device

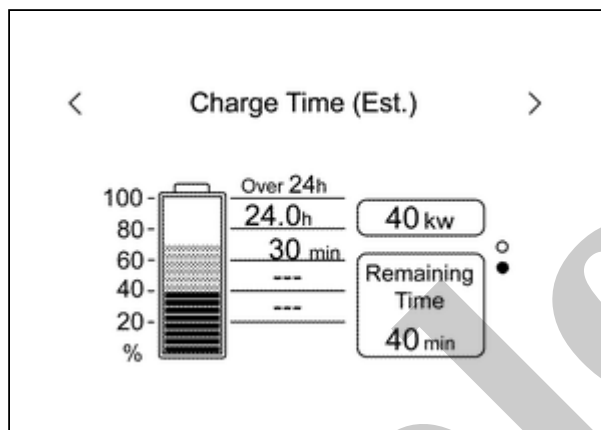
WARNING:

Be sure to follow the precautions for using the charging device that can be installed in your home. Failing to do so could result in serious injury or death.

OUTLINE

There are two types of Li-ion battery charge. Normal charge converts commercial power supply to DC power, and quick charge uses special charger.

- For information of specification of charge mode, Refer to [Specifications](#).
- "Expected charge time" can be confirmed on vehicle information display in the combination meter.



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- "Expected charge time" can be set on vehicle information display in combination meter. For the information display, Refer to [System Description](#).

DESCRIPTION

- Li-ion battery charging is mainly controlled by VCM.
- VCM activates EV system by connecting charge connector, performing remote control, or using built-in timer to start charge to Li-ion battery. The following charge modes are available.

Methods of charging Description		Description
Normal charge	Immediate charge	Refer to System Description .
	Timer charge	
	Remote charge	
Quick charge		Refer to System Description .
Regeneration charge		Refer to System Description .

CHARGING STATUS INDICATOR AND CHARGING SOUND SYSTEM

The charge connector connection status and charge receiving status can be checked with the charging status indicator lamp and the electronic sound from Vehicle Sound for Pedestrians (VSP).

- For charging status indicator, Refer to [Component Description](#).
- For charging sound system, Refer to [System Description](#).