

# Your Ultimate Source for OEM Repair Manuals

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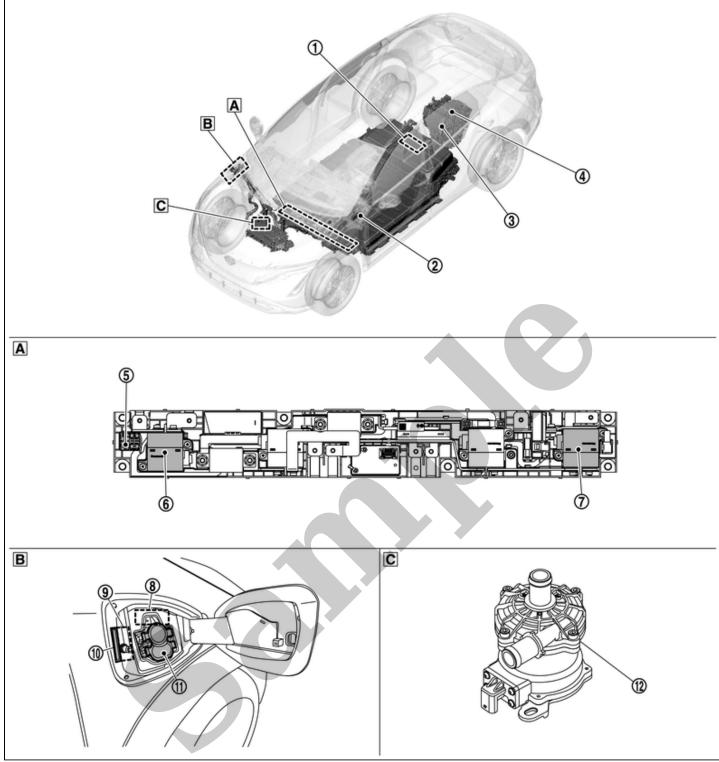
2010 NISSAN NP300 Pickup Double Cab OEM Service and Repair Workshop Manual

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	For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .				
4	System main relay 1	5	System main relay 2	6	Charge connector lock actuator For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .
7	Charge port lid actuator For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	8	Charge port light For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	9	Charge port For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .
10	Electric water pump 2				
Α	Li-ion battery junction box	В	Charge port	С	Right upper side of motor room

# 91kWh Li-ion Battery, AWD models

# Vehicle Compartment

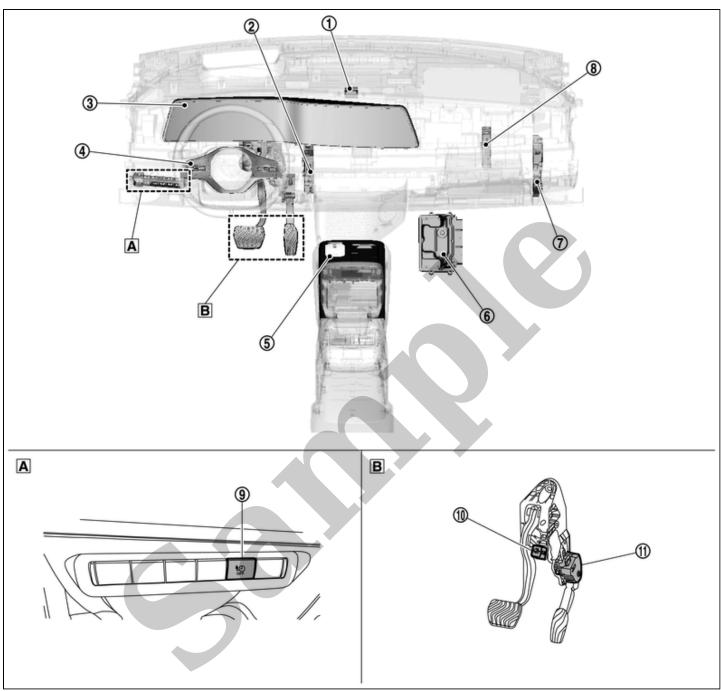


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1	Li-ion battery controller For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	2	VSP control unit	3	Inverter (rear)
4	Rear traction motor	ග	Pre-charge relay	6	System main relay 1
7	System main relay 2	8	Charge connector lock actuator For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	9	Charge port lid actuator For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .
10	Charge port light For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	1	Charge port For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	12	Electric water pump 2

Image: Image with the second secon	A Li-ion battery junction box	B Charge port	<b>C</b> Right upper side of motor room
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# **Interior Compartment**



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	Charging status indicator		TCU		Combination meter
1	For details on the installation position, Refer to <u>Component Parts Location</u> .	2	For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	3	For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .
4	ProPILOT Assist/ProPILOT Assist 2.0 steering switch	5	e-Pedal switch For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	6	VCM
7	BCM For details on the installation position, Refer to <u>Component Parts Location</u> .	8	A/C auto amp. For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	9	Immediate charging switch For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .
10	Stop lamp switch	11	Accelerator pedal position sensor		

		Accelerator pedal and brake pedal upper part	В	Switch panel	Α
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## FUNCTIONS WITHIN THE SYSTEM

The system main relay 1 that is controlled by VCM connects and disconnects the high-voltage circuit (+) side and Li-ion battery.

When the pre-charge to the condenser in the inverter (front) is completed while high voltage power is supplied, VCM activates the system main relay 1 ON to supply power from the Li-ion battery to the EV system.

#### **INDIVIDUAL FUNCTION WITHIN THE SYSTEM**

The system main relay 1 connects and disconnects of the power supply circuit by ON / OFF of the relay switch.

# **COMPONENT PARTS LOCATION**

The system main relay 1 is integrated in the battery junction box of Li-ion battery .

The Li-ion battery is installed under the floor of the vehicle.

## FUNCTIONS WITHIN THE SYSTEM

The system main relay 2 that is controlled by VCM connects and disconnects the high-voltage circuit (-) side and Li-ion battery.

VCM activates the system main relay 2 ON to supply power from the Li-ion battery to the EV system while high voltage power is supplied.

# INDIVIDUAL FUNCTION WITHIN THE SYSTEM

The system main relay 2 connects and disconnects of the power supply circuit by ON / OFF of the relay switch.

# **COMPONENT PARTS LOCATION**

The system main relay 2 is integrated in the battery junction box of the Li-ion battery.

The Li-ion battery is installed under the floor of the vehicle.

VCM controls the electric water pump 1 to adjust the amount of pressure feed according to the vehicle speed and water temperature.

# INDIVIDUAL FUNCTION WITHIN THE SYSTEM

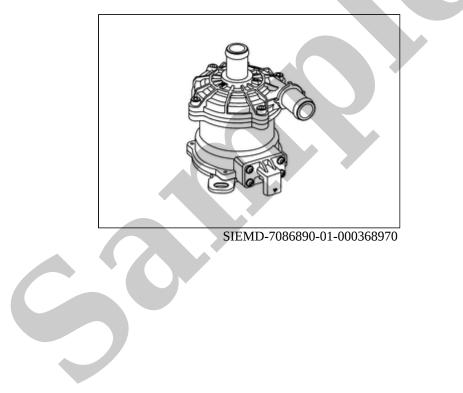
The electric water pump 1 feeds coolant by pressure, which circulates in the high voltage system cooling circuit.

# INDIVIDUAL OPERATION

The electric water pump 1 integrates an interface circuit that monitors the pump function for any malfunction, and it transmits a malfunction signal to VCM if necessary.

# **COMPONENT PARTS LOCATION**

The electric water pump 1 is installed in the lower side of the electric compressor.



VCM controls the electric water pump 2 to adjust the amount of pressure feed according to the vehicle speed and water temperature.

## INDIVIDUAL FUNCTION WITHIN THE SYSTEM

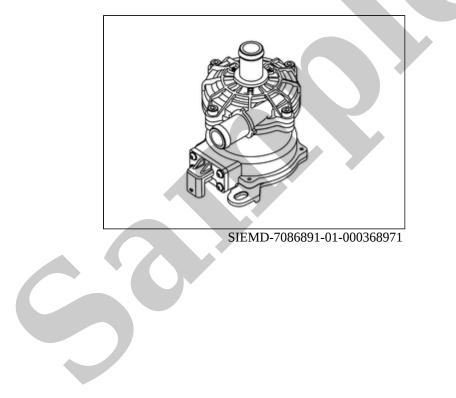
The electric water pump 2 feeds coolant by pressure, which circulates in the Li-ion battery.

# **INDIVIDUAL OPERATION**

The electric water pump 2 integrates an interface circuit that monitors the pump function for any malfunction, and it transmits a malfunction signal to VCM if necessary.

# **COMPONENT PARTS LOCATION**

The electric water pump 2 is installed on the front suspension member of front right of vehicle.



#### **Component Description**

## FUNCTIONS WITHIN THE SYSTEM

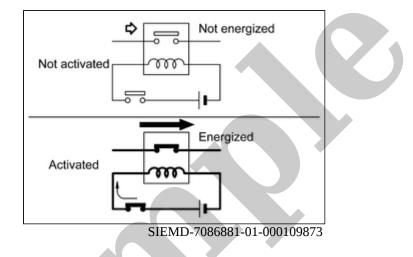
The electric water pump relay supplies 12V power to the electric water pump 1 and electric water pump 2. VCM turns on the electric water pump relay during power switch ON and supplies power to the electric water pump 1 and electric water pump 2.

## INDIVIDUAL FUNCTION WITHIN THE SYSTEM

The electric water pump relay connects and disconnects the power supply circuit by ON / OFF of the relay switch.

## INDIVIDUAL OPERATION

The electric water pump adopts normal open type.



#### **COMPONENT PARTS LOCATION**

The electric water pump is installed in the relay box of front right side of the vehicle.