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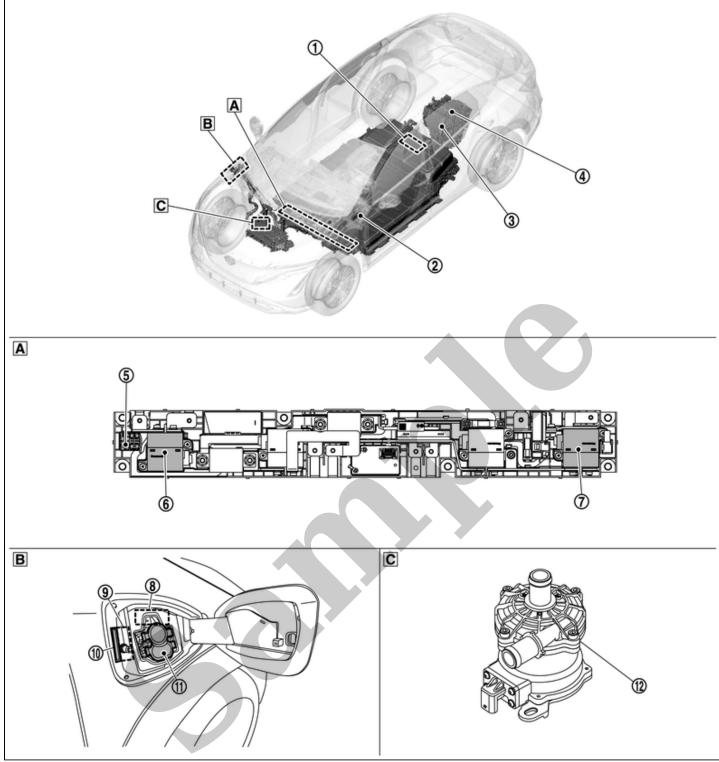
2010 NISSAN NP300 Pickup Double Cab OEM Service and Repair Workshop Manual

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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

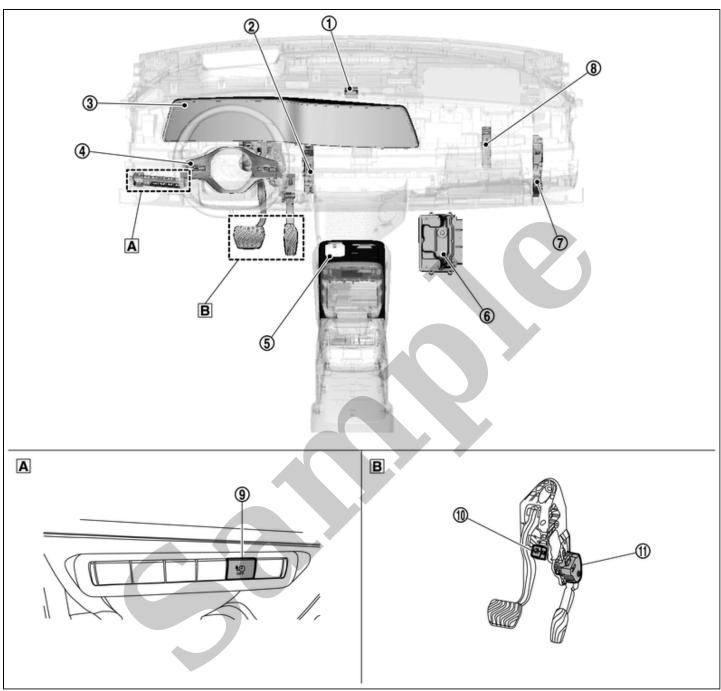


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1	Li-ion battery controller For details on the installation position, Refer to <u>Component Parts</u> <u>Location</u> .	2	VSP control unit	3	Inverter (rear)
4	Rear traction motor	ග	Pre-charge relay	6	System main relay 1
7	System main relay 2	8	Charge 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	C Right upper side of motor room
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Interior Compartment



SIEMD-7196706-02-000277999

	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

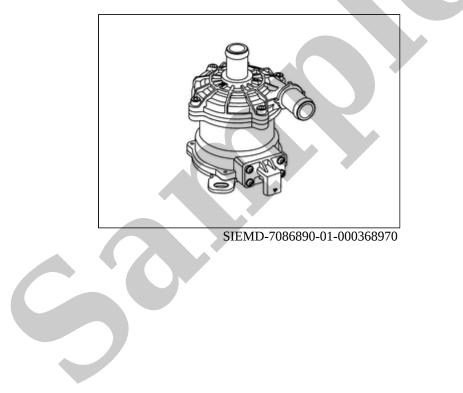
The electric water pump 1 feeds coolant by pressure, which circulates in the high voltage system cooling circuit.

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

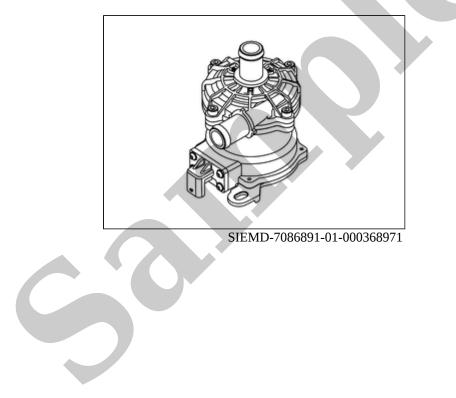
The electric water pump 2 feeds coolant by pressure, which circulates in the Li-ion battery.

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

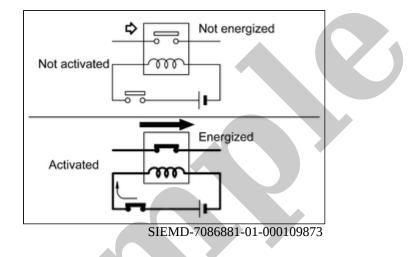
The electric water pump relay supplies 12V power to the electric water pump 1 and electric water pump 2. VCM turns on the electric water pump relay during power switch ON and supplies power to the electric water pump 1 and electric water pump 2.

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.