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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2010 NISSAN Note OEM Service and Repair Workshop Manual

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SIEMD-7196716

FUNCTIONS WITHIN THE SYSTEM

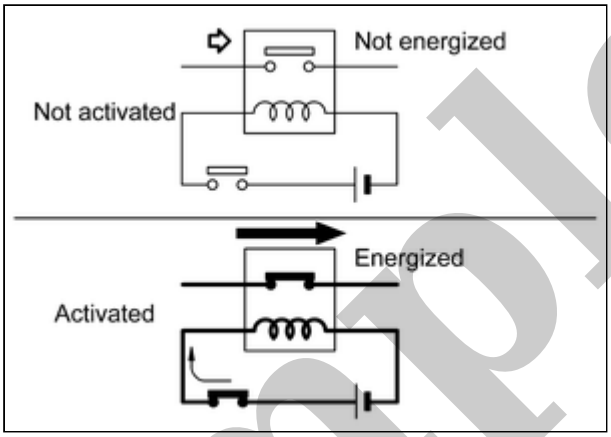
EV power relay supplies 12V power to each electric device. VCM turns on EV power relay during power switch ON and supplies power to each electric device.

INDIVIDUAL FUNCTION WITHIN THE SYSTEM

EV power relay connects and disconnects the power supply circuit by ON / OFF of the relay switch.

INDIVIDUAL OPERATION

EV power relay adopts normal open type.



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COMPONENT PARTS LOCATION

EV power is installed in the relay box of front right side of the vehicle.

SIEMD-7196717

FUNCTIONS WITHIN THE SYSTEM

The pre-charge relay is controlled by VCM. When high voltage power is required, VCM activates the pre-charge relay before activating the system main relay to prevent abrupt application of high voltage.

INDIVIDUAL FUNCTION WITHIN THE SYSTEM

The pre-charge relay connects and disconnects the power supply circuit by ON / OFF of the relay switch.

COMPONENT PARTS LOCATION

The pre-charge relay is integrated in the battery junction box of the Li-ion battery.

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

SIEMD-7196719

FUNCTIONS WITHIN THE SYSTEM

VCM inputs the brake pedal position switch signal (stop lamp SW1 signal) from the stop lamp switch, or VCM receives the stop lamp switch signal (stop lamp SW2 signal) from BCM via CAN communication, and performs various control by judging the brake pedal status.

INDIVIDUAL FUNCTION WITHIN THE SYSTEM

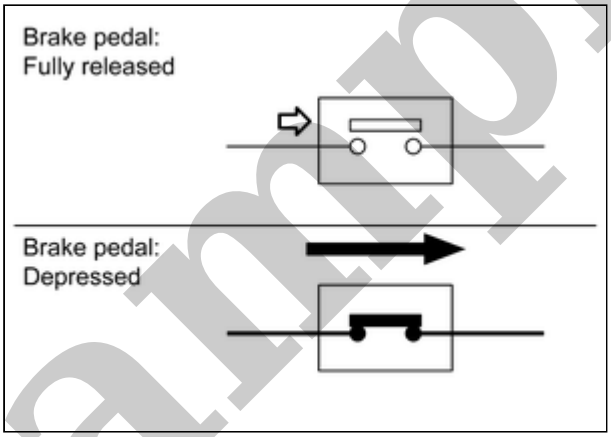
The stop lamp switch integrates switch of dual lines and inputs the brake pedal operation status to VCM and BCM.

INDIVIDUAL OPERATION

The stop lamp switch integrates switch of dual line and perform ON/OFF according to the brake pedal operation.

STOP LAMP SWITCH SIGNAL (NORMAL OPEN)

The stop lamp switch signal (stop lamp SW2) side of the stop lamp switch is a normal open type. The contacts of the stop lamp switch are normally open. When the brake pedal is depressed, the contacts are closed, and the circuit is conducted.



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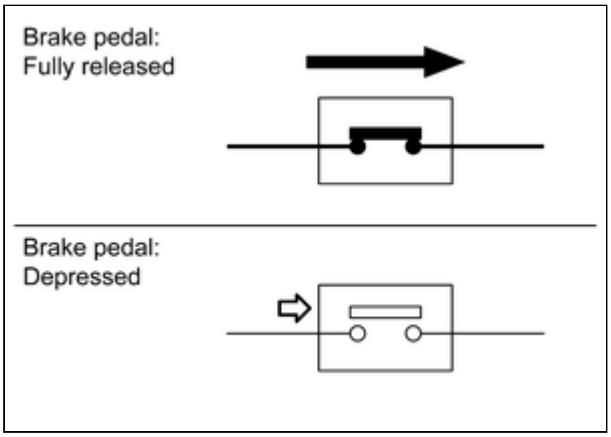
BRAKE PEDAL POSITION SWITCH SIGNAL (NORMAL CLOSE TYPE)

The brake pedal position switch signal (stop lamp SW1 signal) side of the stop lamp switch is a normal close type switch, therefore the contact is normally closed. When the brake pedal is depressed, the contact is opened and the circuit is cut off.



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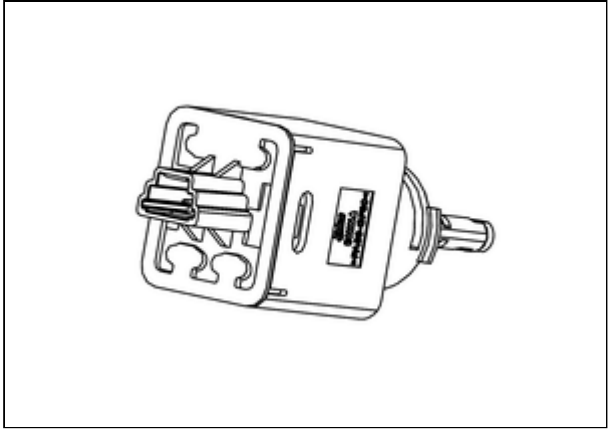
COMPONENT PARTS LOCATION

The stop lamp switch is installed to the brake pedal bracket.



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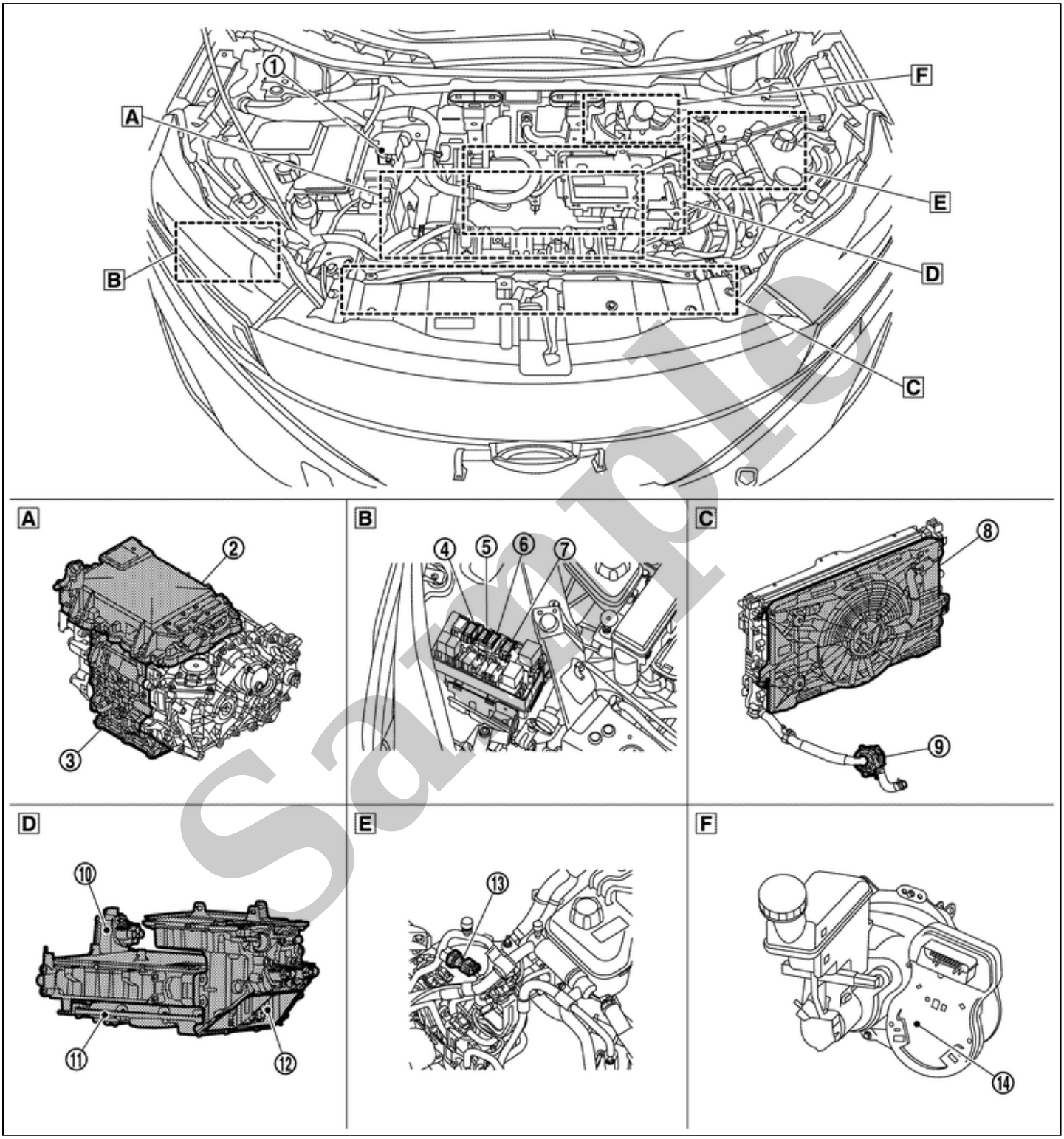
Motor Room Compartment



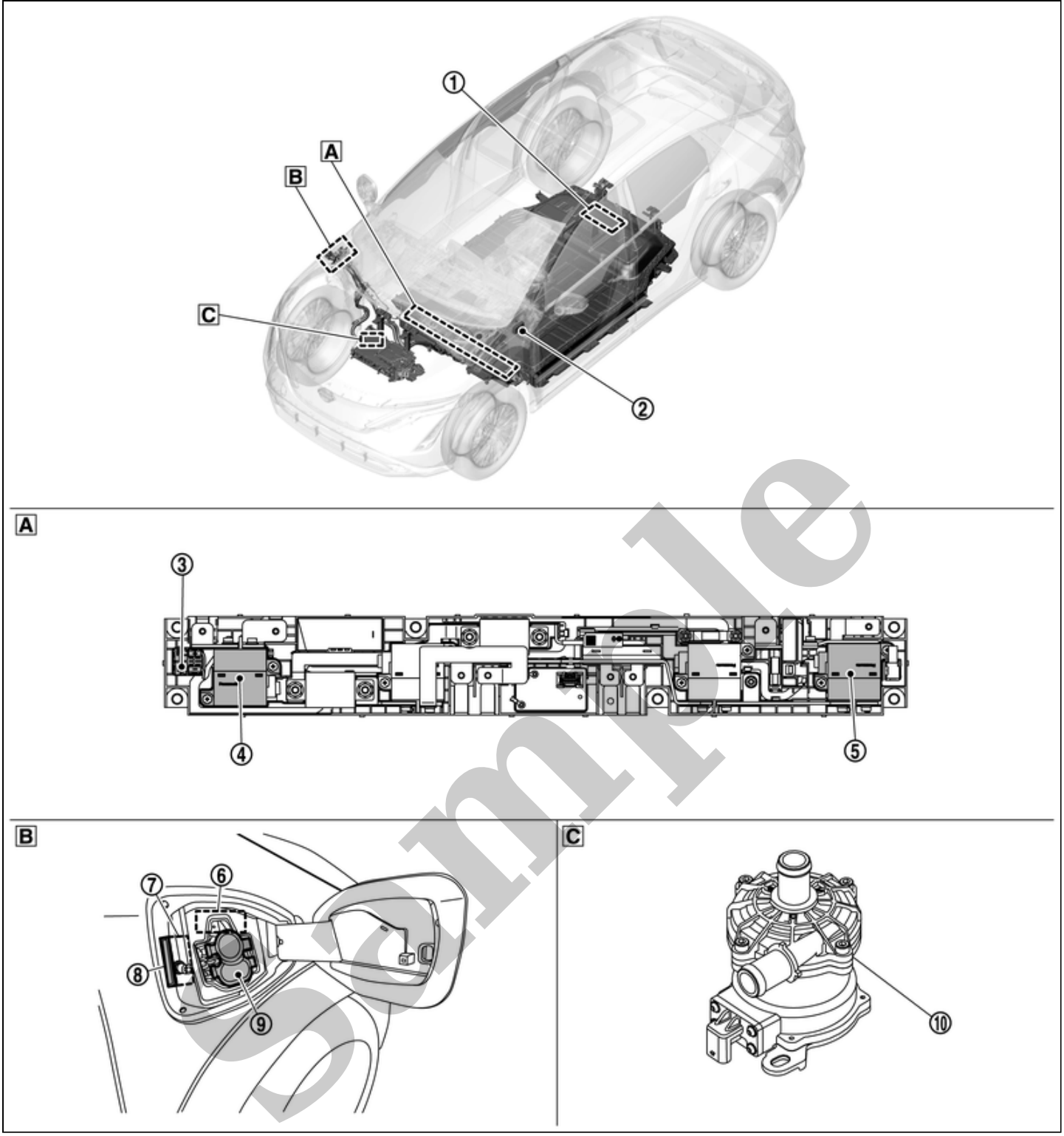
SIEMD-7196706-04-000385010

①	12V battery For details on the installation position, Refer to Component Parts Location.	②	Inverter (front) For details on the installation position, Refer to Component Parts Location.	③	Front traction motor For details on the installation position, Refer to Component Parts Location.
④	Electric water pump relay	⑤	12V main relay	⑥	Traction motor oil pump relay For details on the installation position, Refer to Component Parts Location.

⑦	EV power relay	⑧	Cooling fan control module	⑨	Electric water pump 1
⑩	On-board charger For details on the installation position, Refer to Component Parts Location.	⑪	DC/DC converter For details on the installation position, Refer to Component Parts Location.	⑫	High voltage junction box For details on the installation position, Refer to Component Parts Location.
⑬	Refrigerant pressure sensor	⑭	Electrically-driven intelligent brake unit For details on the installation position, Refer to Component Parts Location.		
A	Lower side of electric power train	B	Front right side of motor room, inside of relay box	C	Radiator area
D	Upper side of electric power train	E	Rear center side of motor room	F	Rear right side of motor room

66kWh Li-ion Battery, 2WD models

Vehicle Compartment



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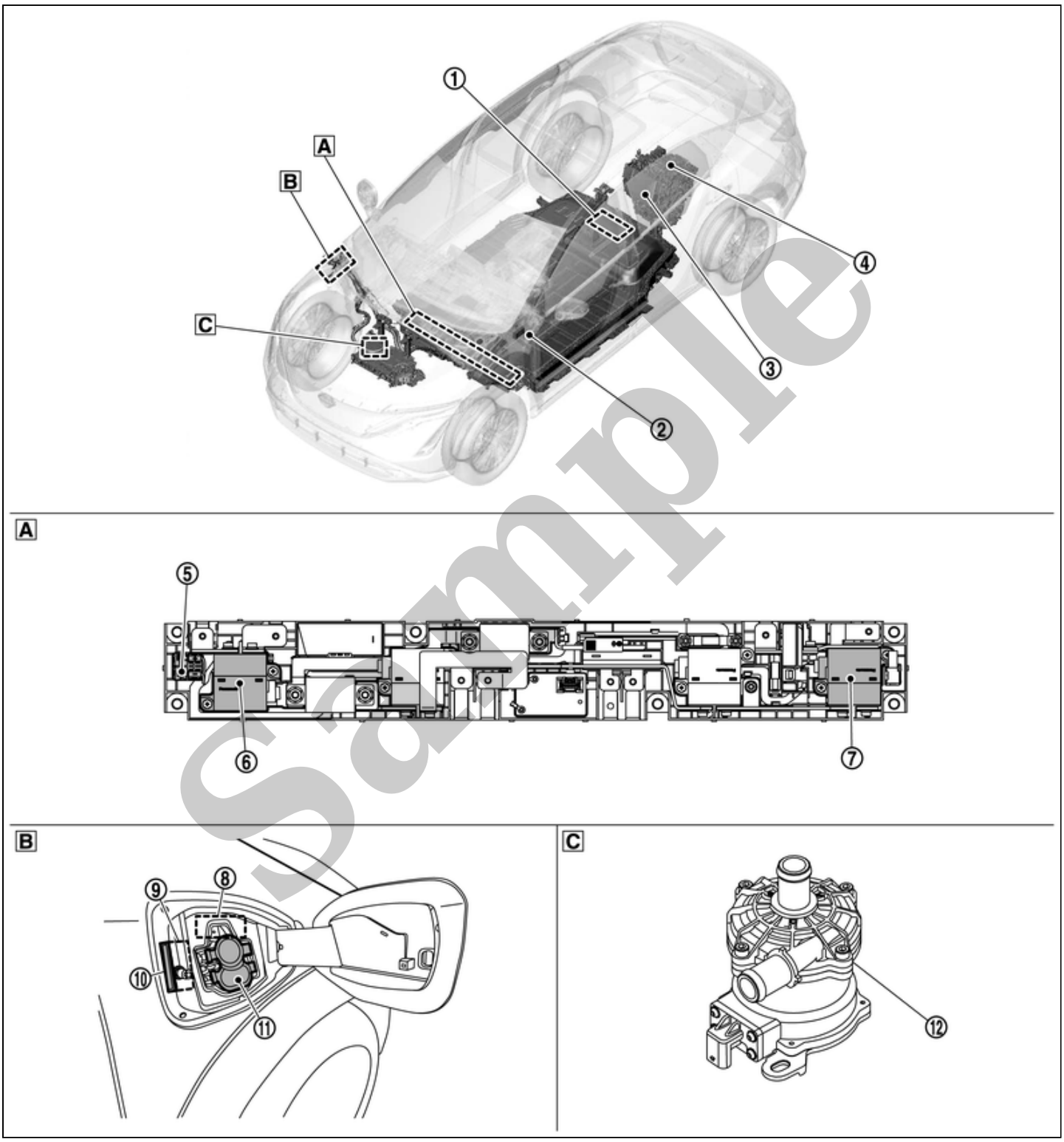
①	Li-ion battery controller For details on the installation position, Refer to Component Parts Location.	②	VSP control unit	③	Pre-charge relay
④	System main relay 1	⑤	System main relay 2	⑥	Charge connector lock actuator For details on the installation position, Refer to Component Parts Location.
⑦	Charge port lid actuator For details on the installation position, Refer to Component Parts Location.	⑧	Charge port light For details on the installation position, Refer to Component Parts Location.	⑨	Charge port For details on the installation position, Refer to Component Parts Location.
⑩	Electric water pump 2				

A	Li-ion battery junction box	B	Charge port	C	Right upper side of motor room

66kWh Li-ion Battery, AWD models

Vehicle Compartment



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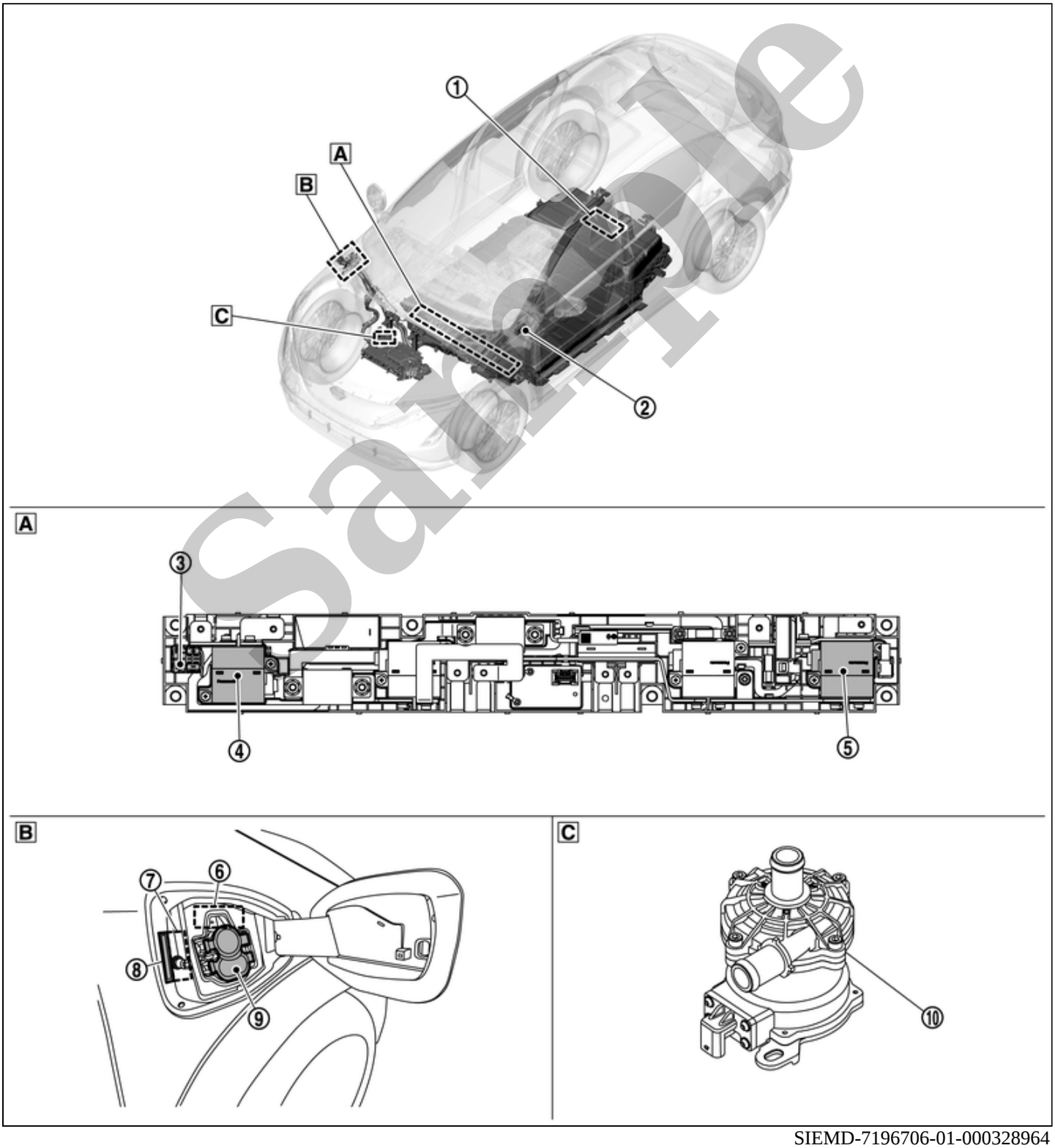
①	Li-ion battery controller For details on the installation position, Refer to Component Parts Location.	②	VSP control unit	③	Inverter (rear)
④	Rear traction motor	⑤	Pre-charge relay	⑥	System main relay 1
⑦	System main relay 2	⑧	Charge connector lock actuator	⑨	Charge port lid actuator

			For details on the installation position, Refer to Component Parts Location.		For details on the installation position, Refer to Component Parts Location.
⑩	Charge port light For details on the installation position, Refer to Component Parts Location.	⑪	Charge port For details on the installation position, Refer to Component Parts Location.	⑫	Electric water pump 2
A	Li-ion battery junction box	B	Charge port	C	Right upper side of motor room

91kWh Li-ion Battery, 2WD models

Vehicle Compartment



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①	Li-ion battery controller	②	VSP control unit	③	Pre-charge relay