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2012 NISSAN Rogue OEM Service and Repair Workshop Manual

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Symptom		Possible cause	Action
	are simultaneously connected.	connected at the same time.	Description.
		Connection detection circuit of normal charge port is abnormal.	Check normal charge port.
		In-vehicle charger is abnormal	Perform self-diagnosis of in-vehicle charger
	VCM recognizes that quick charge connector is not connected.	Quick charge connector is not connected.	Normal operation
		Connection detection circuit of quick charge port is abnormal.	Perform self-diagnosis of VCM
			Check the harness between quick charge port and VCM
			Check quick charge port
	VCM prohibits charging	Fail-safe of VCM.	Refer to Fail-safe.
	Activation signal from V2H cannot be received	Activation signal circuit malfunctions	Perform self-diagnosis of VCM
			Check the harness between quick charge port and VCM
			Check quick charge port
	Judged as full charge	—	Check V2H
	V2H detects high voltage circuit insulation degradation	—	Normal operation
V2H does not permit	V2H malfunctions	—	Check V2H

Symptom	Possible cause	Action
Normal charge does not start	There is no power the outlet	Confirm that there is not a power failure
		Check that breaker is ON
	Plug is not connected correctly	Confirm the plug is connected to the outlet correctly
	Selector lever is in except P range	Shift selector lever in P range
	Electric shift control system error	Perform self-diagnosis of Electric shift control module
	Li-ion battery is fully charged	Normal operation
	Timer charge is set	Timer charge is cancelled, or immediate charge switch is ON.
	Both normal charge connector and quick charge connector are connected.	Disconnect a connector of quick charge connector.
	Normal charge connector is not connected correctly.	Insert normal charge connector until click sound can be heard.
	Connection of normal charge connector and normal charge port is abnormal.	Check normal charge connector and normal charge port
	VCM prohibits charging. (In-vehicle charger, VCM, LBC etc. are abnormal)	Perform self-diagnosis of detect DTC.Refer to Fail-safe . Refer to DTC Index .
	Any failure of vehicle, EVSE, or power outlet	Refer to Symptom Table .
	Others	Refer to Symptom Description .

When not connected to V2H

Symptom		Possible cause	Action
Quick charge does not completed	Charge is not completed even if it is fully charged	Abnormal LBC	Perform self-diagnosis of LBC
	—	DTC is detected	Perform full self-diagnosis
	—	Quick charger malfunctions	Check quick charger

When connected to V2H

Symptom	Possible cause	Action
Quick charge is not completed	Power consumption on the residential side is large	Normal operation
	DTC is detected	Perform full self-diagnosis
	V2H malfunctions	Check V2H
	V2H charge request activates	Normal operation

When not connected to V2H

Symptom		Possible cause	Action
Full charge cannot be achieved	—	—	Quick charge starts under extremely low charge level of Li-ion battery
	Charge power is low or charging stops.	Power consumption is large during charge.	A/C power consumption is large.
			Power consumption of auxiliaries is large.
	Meter indication does not reach maximum.	—	Abnormal LBC
Charge power is low	Chargeable power is limited	LBC limits chargeable power	



Perform quick charge again

Refer to [Diagnosis Procedure](#).

Refer to [Work flow](#).

Check self-diagnosis result of Li-ion battery

When connected to V2H

Symptom		Possible cause	Action
Full charge cannot be achieved	Charge with V2H connection is not fully charged	Fully charged, but then discharged	Normal operation
		—	Normal operation
		Power consumption on the residential side is large	 NOTE: Charge power of V2H varies depending on power usage in the house, so charging time may be longer.
		DTC is detected on the vehicle	Check self-diagnosis result
Full charge cannot be achieved	Charge with V2H connection is not fully charged	V2H detects abnormality	Check error message that is displayed on V2H
		Li-ion battery charge level gauge in combination meter does not maximize even when V2H is set to 100% charge	Normal operation  NOTE: Since calculation method of charge amount is different between V2H and VCM, the Li-ion battery charge level gauge may not display full charge even if battery is 100% charged with V2H.

Diagnosis Procedure

SIEMD-7197062

Symptom		Possible cause	Action
Normal charge does not completed	Charge is not completed even if it is fully charged	Abnormal LBC	Perform self diagnosis of LBC

Sample

Diagnosis Procedure

SIEMD-7197063

Symptom		Possible cause	Action	
Power switch does not turn OFF	VCM recognizes that power switch is not OFF	Power is continuously supplied to the power ON power supply terminal of VCM.	Abnormal power switch.	Refer to Component Function Check .
	Immediate charging switch signal is continuously received.		Abnormal immediate charging switch signal circuit.	Refer to Diagnosis Procedure .
			Abnormal immediate charging switch.	

Sample


Diagnosis Procedure

SIEMD-7197057

Symptom		Possible cause	Action
Immediate charge does not start	Normal charge is not possible		Refer to Diagnosis Procedure .
	Immediate charge start condition are not satisfied.	—	Turn ON the immediate charging switch.
		Immediate charge is not accepted even if immediate charge switch is operated.	More than 15 minutes passed from operating immediate charge switch to connecting charge connector.
	—		Others

Sample

Symptom		Possible cause	Action	
READY status cannot be achieved	READY condition is not satisfied	BCM does not output READY signal	BCM error Preform self diagnosis of BCM	
		READY signal is not input to VCM	CAN communication error Check CAN communication between BCM and VCM	
		VCM recognizes that select lever is except P and N range.	Electric shift control system error Preform self diagnosis of electric shift control system	
		VCM recognizes that charge connector is connected	Normal charge connector connection detection circuit error	<ul style="list-style-type: none"> • Preform self diagnosis of VCM • Preform self diagnosis of normal charger
			Quick charge connector connection detection circuit error	
		READY is prohibited by VCM failsafe	EV control system error Preform self diagnosis of VCM, ACU and LBC	
		VCM recognizes remaining energy is too low	Remaining energy is too low	Charge Li-ion battery
	LBC error		Preform self diagnosis of LBC	
Despite READY state, READY to drive indicator does not turn ON	Abnormal combination meter.	Preform self diagnosis of combination meter		

Symptom		Possible cause	Action
Timer A/C does not operate	Start condition of the timer A/C is not satisfied	Timer A/C is not set	Set timer A/C
		A/C before getting in is set	Normal operation  NOTE: If timer A/C and A/C before getting in are requested at the same time, A/C before getting in is given priority.
		When plug is OFF, the setting to operate is ON. However, when plug is OFF, charge amount is at empty lamp indicate level.	Charge and set charge amount to turn OFF status of empty lamp
	A/C system does not start	A/C auto amp does not recognize timer A/C	A/C auto amp is abnormal
	—	A/C system power supply is abnormal	Refer to Diagnosis Procedure .