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2014 Nissan Versa Service and Repair Manual


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2. Control box indicator lamp (LED) illuminating status check result

- Charge connector is not connected to normal charge port.

X: Potential possibility

<Control box indicator lamp (LED) illuminating status >

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: OFF <div style="border: 1px solid green; padding: 5px; margin-top: 10px;">  NOTE: Connecting the EVSE plug to power outlet, all LED will turn ON for 0.5 sec. and then only "READY" will continue to turn ON. Other LED (CHARGE & FAULT) will turn OFF </div>	—	—	—	—	—	Connect the charge connector to the normal charging port and check the illuminating status of the control box indicator lamp (LED).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: Blink (Green) ◦ CHARGE: OFF ◦ FAULT: OFF (Always)	—	X	X	Outlet 'Earth' insufficient (Ground contact resistance large). <ul style="list-style-type: none"> ◦ There is a possibility that outlet earth is not connected. 	When symptoms occurred in pattern 1 and 3. When symptoms do not occur with Pattern 1 to 3.	Replace EVSE. Since it is estimated that there is an abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request confirmation to installation site.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: Blink (Green) ◦ CHARGE: OFF ◦ FAULT: OFF 	—	X	X	Outlet 'ground' insufficient (Ground contact resistance large). <ul style="list-style-type: none"> ◦ There is a possibility that outlet 	When symptoms occurred in pattern 1 and 3. When symptoms do not occur	Replace EVSE. Since it is estimated that there is an

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
			(Sometimes)				ground is not connected.	with Pattern 1 to 3.	abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request confirmation to installation site.
			All LED lamps OFF	—	X	X	No AC voltage input. <ul style="list-style-type: none"> ◦ Possibility of cable disconnection or concerns inside the control box or EVSE plug line. 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						When symptoms do not occur with Pattern 1 to 3.	Since it is estimated that there is an abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request confirmation to installation site.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: ON (Red) 	—	X	—	Relay abnormality <ul style="list-style-type: none"> ◦ Possibility of concerns inside the control box 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: Blink (Red) 	—	X	—	Signal line voltage concerns. <ul style="list-style-type: none"> ◦ Possibility of concerns inside the control box 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ◦ READY: Blink (Green) ◦ CHARGE: OFF ◦ FAULT: Blink (Red) 	—	X	—	Operation of EVSE plug overheat protection (High temperature) EVSE temperature detection function is abnormal (Short circuit, Disconnection). <ul style="list-style-type: none"> ◦ Insufficient connection between the plug (include 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
							NISSAN genuine adapter) and the outlet. ◦ Concerns on thermistor inside the EVSE plug.		

- Charge connector is connected to normal charge port.

X: Potential possibility

< Control box indicator lamp (LED) illuminating status >

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◦ READY: ON (Green) ◦ CHARGE: ON (Orange) ◦ FAULT: OFF	—	—	—	—	—	The vehicle, EVSE and power outlet are normal.

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
□	□	□	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: OFF 	X	X	-	Charging does not start.	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							<ul style="list-style-type: none"> ◦ There is a possibility that cable has been disconnected between the charge connector and the control box. ◦ There is a possibility that connection between charge connector and vehicle normal charge port was insufficient. (Concerns on EVSE or normal charge port) ◦ There is a possibility that the vehicle has concerns and charging prohibited. 	When symptoms occurred in pattern 1 and 2.	<ul style="list-style-type: none"> ◦ Check whether the EV system warning lamp is on turn on the power supply position and the EV system warning lamp is lit If it is, please check according to the detected DTC. ◦ Check the normal charging port. Refer to Component Inspection.
□	□	□	<ul style="list-style-type: none"> ◦ READY: Blink (Green) ◦ CHARGE: OFF (Orange) ◦ FAULT: OFF 	-	X	X	Outlet 'ground' insufficient (Ground contact resistance large).	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							<ul style="list-style-type: none"> ◦ There is a possibility that outlet ground is not connected. ◦ Disconnection of earth line of EVSE 	When symptoms do not occur with Pattern 1 to 3.	Since it is estimated that there is an abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request confirmation to installation site.
□	□	□	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: ON (Red) 	-	X	-	EVSE electric leak detection function is abnormal or relay abnormality .	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							<ul style="list-style-type: none"> ◦ Possibility of concerns inside the control box. 		

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
□	□	□	<ul style="list-style-type: none"> ◦ READY: ON (Green) ◦ CHARGE: OFF ◦ FAULT: Blink (Red) 	X	X	-	<p>Electric leak between EVSE control box and PDM (Power Delivery Module) or signal line voltage concerns.</p> <ul style="list-style-type: none"> ◦ Possibility of concerns inside the control box. ◦ Possibility that vehicle has concerns. [Between charge port and PDM (Power Delivery Module)] 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							When symptoms occurred in pattern 1 and 2.	Perform AC leakage check. Refer to Insulation Resistance Check .	
□	□	□	<ul style="list-style-type: none"> ◦ READY: Blink (Green) ◦ CHARGE: Blink (Orange) ◦ FAULT: Blink (Red) 	-	X	X	<p>EVSE temperature detection function is abnormal (Short circuit, Disconnection) and Charge current limit or Operation of EVSE plug overheat protection (High temperature) and Charge current limit.</p> <ul style="list-style-type: none"> ◦ Insufficient connection between plug and the outlet. ◦ Concerns on thermistor inside the EVSE plug. 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							When symptoms do not occur with Pattern 1 to 3.	Since it is estimated that there is an abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request confirmation to installation site.	
□	□	□	<p>All LED lamps OFF</p> <p>(After connecting the charge connector)</p>	X	X	X	<p>Power outlet side breaker shut down immediately after connecting the charging connector to the vehicle.</p> <ul style="list-style-type: none"> ◦ Electric leak and/or short on vehicle side. ◦ Electric leak and/or short on EVSE. ◦ Insufficient power outlet. 	When symptoms occurred in pattern 1 and 3.	Replace EVSE.
							When symptoms occurred in pattern 1 and 2.	Perform AC leakage check. Refer to Insulation Resistance Check .	
							When symptoms do not occur with Pattern 1 to 3.	Since it is estimated that there is an abnormality on the customer's outlet side, Whether it is dedicated wiring work according to NISSAN recommended work, Request	

Combination pattern			Control box indicator lamp status	Possible cause			Content	Occurrence pattern	Correspondence
1	2	3		Vehicle	EVSE	Power outlet			
								confirmation to installation site.	

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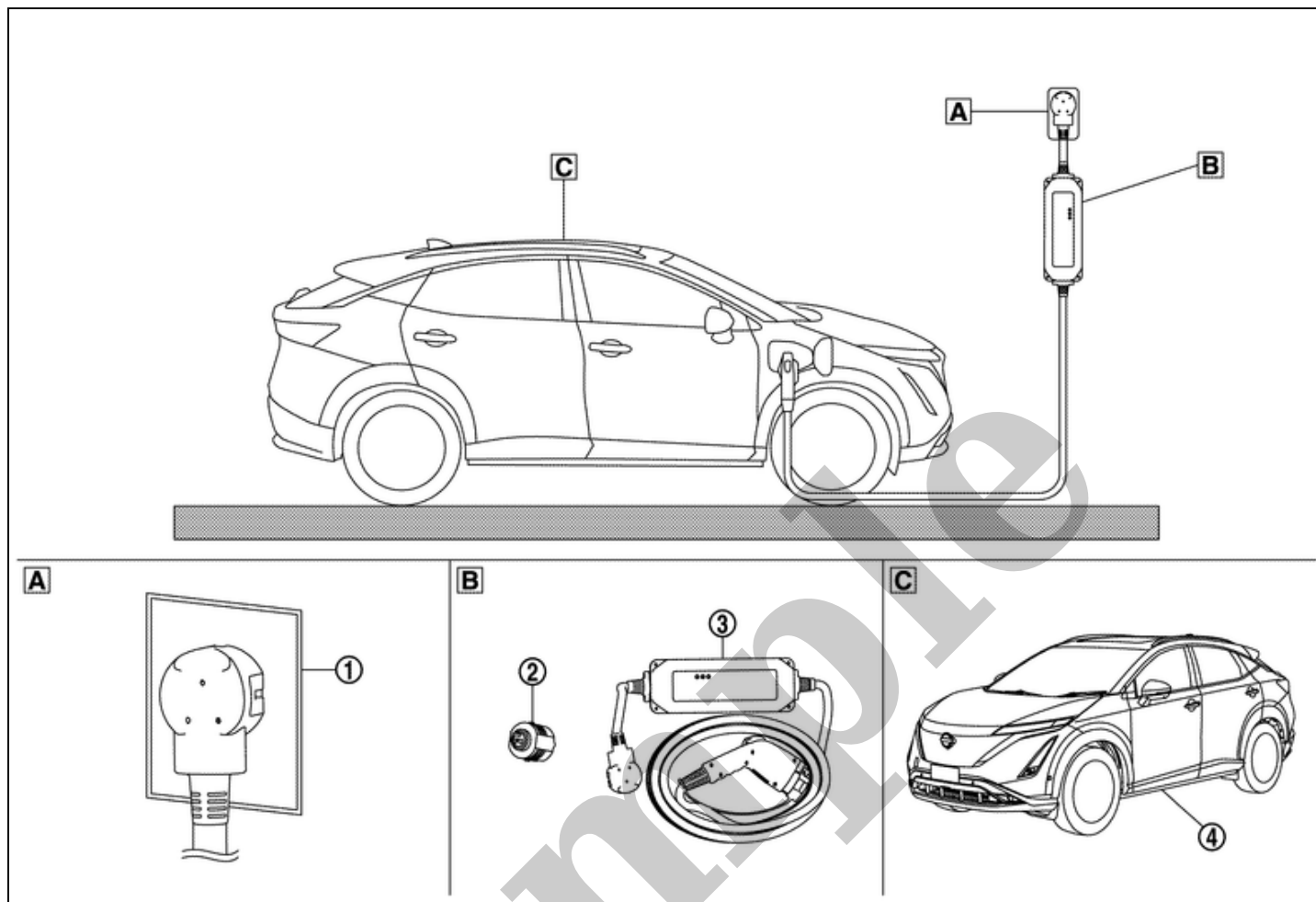
If there is no problem with the combination of patterns 1 to 3, since it is presumed that there is an abnormality on the side of the customer outlet, make a confirmation to the installation work source as to whether it is dedicated wiring work according to NISSAN recommended work.

Sample

Symptom Table

SIEMD-7200598

Charge by EVSE is composed of three factors, which are vehicle, EVSE and power supply outlet and it is necessary to determine which factor is causing the concerns.



SIEMD-7200598-01-000391567

①	Power outlet for normal charge	②	Genuine NISSAN adapter	③	EVSE
④	Vehicle				

1. CONFIRMATION OF USAGE AC POWER SOURCE

Confirm the usage AC power source when symptoms occurred.

Which AC power source is used?

>>

Only 240 V is used: GO TO [3](#).

>>

Only 120 V is used: GO TO [2](#).

>>

Both 120 V and 240 V are used: GO TO [2](#).

2. CHECK GENUINE NISSAN ADAPTER

Confirm that symptom is occurred with the following combination.

- Customer's Genuine NISSAN adapter

- Outlet that is confirmed to operate normally (120 V power outlet)
- EVSE that is confirmed to operate normally
- Vehicle that is confirmed to operate normally

Does the symptom occur?

YES>>

Replace Genuine NISSAN adapter.




NO>>

GO TO [3](#).

3. SYMPTOM CONFIRMATION PROCEDURE

Perform the following procedure with each combination of patterns to check the status of the indicator lamp (LED) on the control box (EVSE) and the DTC.

Combination patterns for confirming symptom (Vehicle, EVSE and power outlet)

<p>Pattern 1</p>	<ul style="list-style-type: none"> • Outlet that is confirmed to operate normally (240 V power outlet) <div style="border: 1px solid green; padding: 5px; margin: 10px 0;">  NOTE: If 120 V power outlet is used, be sure to use Genuine NISSAN adapter that is confirmed to operate normally. </div> <ul style="list-style-type: none"> • Customer's EVSE • Customer's vehicle
<p>Pattern 2</p>	<ul style="list-style-type: none"> • Outlet that is confirmed to operate normally (240 V power outlet) <div style="border: 1px solid green; padding: 5px; margin: 10px 0;">  NOTE: If 120 V power outlet is used, be sure to use Genuine NISSAN adapter that is confirmed to operate normally. </div> <ul style="list-style-type: none"> • EVSE that is confirmed to operate normally • Customer's vehicle
<p>Pattern 3</p>	<ul style="list-style-type: none"> • Outlet that is confirmed to operate normally (240 V power outlet) <div style="border: 1px solid green; padding: 5px; margin: 10px 0;">  NOTE: If 120 V power outlet is used, be sure to use Genuine NISSAN adapter that is confirmed to operate normally. </div> <ul style="list-style-type: none"> • Customer's EVSE • Vehicle that is confirmed to operate normally

1. Turn power switch ON.

2. Erase "self-diagnostic result." using CONSULT.
3. Turn OFF the charging timer.



NOTE:

In case of malfunction on timer charge setting, confirm from the symptoms.

4. Turn power switch OFF.
5. Connect the EVSE plug to the power outlet and confirm the illumination of the control box indicator lamp (LED). (Charge connector is not connected to normal charge port.)

CAUTION:

- Check that the plug is connected to the power outlet correctly.
- Check that breaker of the power outlet and the hand switch is not OFF.

6. Connect the charge connector to the normal charge port and confirm the illumination of the control box indicator lamp (LED).

CAUTION:

- Confirm that charge connector has been connected to the normal charge port correctly. (All the charge indicator lamp will turn ON for approx. 30 seconds.)
- Confirm that Li-ion battery is not fully charged. (All the charge indicator lamp will turn ON for approx. 5 minutes)
- Confirm that charging timer is not set. [Charge indicator lamp will repeatedly turn ON from the driver's seat side. (It will turn OFF after approx. 5 minutes).]
- Confirm that power supply position is not ON.
- Confirm that 12V battery is not discharged.
- Confirm that normal charge connector & quick charge connector are not connected at same time.

7. Disconnect the charge connector.
8. Turn power switch ON.
9. Perform "all self-diagnostics" using CONSULT. When DTC is detected, perform diagnosis of the corresponding DTC.
10. Turn power switch OFF.
11. Disconnect the EVSE plug from the power outlet.

CAUTION:

Be sure to unplug it once you change the combination.

>>

GO TO [4](#).

4. CONTROL BOX INDICATOR LAMP (LED) ILLUMINATING STATUS CHECK RESULT

- Charge connector is not connected to normal charge port.

X: Potential possibility

<Control box indicator lamp (LED) illuminating status >