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2018 NISSAN 370Z Roadster OEM Service and Repair Workshop Manual

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Diagnosis Procedure

SIEMD-7255962

Refer to [Precautions for ProPILOT Assist 2.0](#).

Sample

Symptom Table

SIEMD-7255956

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Symptoms	Reference page
ProPILOT Assist 2.0 cannot be turned ON	Diagnosis Procedure
Vehicle speed/vehicle-to-vehicle control function does not operate normally	Diagnosis Procedure
Lane keeping support function does not operate normally	Diagnosis Procedure
ProPILOT Assist 2.0 display does not turn blue	Diagnosis Procedure
ProPILOT Assist 2.0 display changes from blue to green	Diagnosis Procedure

Sample

Diagnosis Procedure

SIEMD-7255957

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Possible cause	Inspection item	Reference page
ProPILOT Assist 2.0 switch is stuck	ADAS control unit 2: Check "MAIN SW" of data monitor item	CONSULT Function (ICC/ADAS 2)
	Check self-diagnosis result of ADAS control unit 2	DTC Index
VCM cannot read ON/OFF of ProPILOT Assist 2.0 switch	Check self-diagnosis result of VCM	DTC Index
ADAS control unit 2 cannot receive ProPILOT Assist 2.0 switch operation signal via CAN communication	Check self-diagnosis result of ADAS control unit 2	DTC Index

Sample

Diagnosis Procedure

SIEMD-7255959

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Possible cause		Inspection item	Reference page
Vehicle speed/vehicle-to-vehicle distance control function does not operate normally		Symptom diagnosis: Refer to "Vehicle speed/vehicle-to-vehicle distance control function does not operate normally"	Diagnosis Procedure
"Steering assist" that is set in the combination meter is OFF		Check if "steering assist" set in the combination meter is turned off	Operation
Lane markers cannot be detected	Front camera unit malfunction	Check self-diagnosis result of front camera unit	DTC Index
	Misidentification of lane marker	After checking that symptom is under normal operation, explain to the customer that lane marker may not be detected correctly depending on the situation	Precautions for ProPILOT Assist 2.0
Holding steering wheel cannot be detected	Misidentification of holding steering wheel	After checking that symptom is under normal operation, explain to the customer that steering holding may not be detected correctly depending on the situation	Precautions for ProPILOT Assist 2.0
Not driving in the center of the lane		Check driving situation and explain to customer that lane keeping function does not work when vehicle is not driving in center of the lane	Precaution for ProPILOT Assist 2.0 System Service
Turn signal is operated		Check driving situation and explain to customer that lane keeping function does not work when turn signal is operated	Precaution for ProPILOT Assist 2.0 System Service
Wiper is operated with high speed		Check driving situation and explain to customer that lane keeping function does not work when wiper is operated with high speed	Precaution for ProPILOT Assist 2.0 System Service
When driving on a road with HD map, point such as tollhouse, exit, junction, or lane disappearance is ahead		Check driving situation and explain to customer that lane keeping function does not work when tollhouse, exit, junction, or lane disappearance is ahead	Precaution for ProPILOT Assist 2.0 System Service


Diagnosis Procedure

SIEMD-7255960

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Possible cause		Inspection item	Reference page
Not driving highway or motorway		Explain to customer that steering assist operation display does not turn blue when not driving on highway or a motorway with HD map after checking the driving situation	Diagnosis Procedure
Driving vehicle speed is out of operating conditions	Vehicle driving speed exceeds speed limit of road	Explain to customer that steering assist operation display does not turn blue when vehicle driving speed exceeds speed limit of road	Diagnosis Procedure
	Driving on the road with speed limit 60 km/h (37 MPH) or less	Explain to customer that lane change support function is not operated while driving on the road with 60 km/h (37 MPH) or less as speed limit	System Description
Detecting that the driver is not looking forward	Drive does not look forward	Explain to customer that steering assist operation display does not turn blue when drive does not look forward	Diagnosis Procedure
	Misidentification of driver monitor camera	After checking that symptom is under normal operation, explain to customer that driver monitor camera may not identify correctly depending on the situation	Precautions for ProPILOT Assist 2.0
HD map data related	Driving on the road where HD map data is not maintained	After checking the driving route, explain to customer that steering assist operation display does not turn blue on the road where HD map data is not maintained	System Description
	Driving near sharp curve, tollhouse, exit, road split, junction, lane reduction sections	After checking the driving situations, explain to customer that steering assist operation display does not turn blue on the road near sharp curve, tollhouse, exit, road split, junction, lane reduction sections	System Description
	Driving on a road without a median strip	After checking the driving situations, explain to customer that steering assist operation display does not turn blue on the road where there is no median strip	System Description
	Not receiving GNSS signal	After checking the driving situations, explain to customer that steering assist operation display does not turn blue when GNSS signal cannot be received	System Description
Wiper is operated with low speed		After checking the driving situations, explain to customer that steering assist operation display does not turn blue when wiper is operated with low speed	System Description
Depressing accelerator pedal		After checking the driving situations, explain to customer that steering assist operation display does not turn blue when depressing accelerator pedal	System Description
Warning is operated	Approach warning sounds	After checking the driving situations, explain to customer that steering assist operation display does not turn blue when approach warning sounds	System Description
	Lane departure warning sounds	After checking the driving situations, explain to customer that steering assist operation display does not turn blue when LDW/I-LI sounds	System Description
12 V system components are operated under overload condition		<ul style="list-style-type: none"> Check with customer that A/C, wiper, headlights, power socket, etc. are not overloaded. Explain that steering assist operation display does not turn blue in the above state 	-

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Possible cause		Inspection item	Reference page
Driving road after high-way and motor-way		After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when it is no longer high-way or motorway with HD map  NOTE: <ul style="list-style-type: none"> • HD map data is stored in HD map module • Since map data is different from map data used in navigation system, even when road map is displayed on navigation system screen, "There is no HD map" is displayed on combination meter, and ProPILOT Assist 2.0 display may turns from blue to green 	Diagnosis Procedure
Driving speed is out of operation conditions	Driving speed is 10 km/h (6 MPH) approximately above speed limit	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when Driving speed is 10 km/h (6 MPH) approximately above speed limit	Diagnosis Procedure
	Driving on road with speed limit of 50 km/h (31 MPH) or less	Explain that when speed limit drops below 50 km/h (31 MPH) while driving with blue display of ProPILOT Assist 2.0, ProPILOT Assist 2.0 display turns from blue to green	System Description
When detecting that driver does not look forward	Driver does not look forward	Explain to customer that when driver does not look forward even though system warns driver, ProPILOT Assist 2.0 display turns from blue to green	Diagnosis Procedure
	Misidentification of driver monitor camera	After checking that symptom is under normal operation, explain to customer that driver monitor camera may not identify correctly depending on the situation	Precautions for ProPILOT Assist 2.0
HD map data related	Approaching road where HD map data is not maintained	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when approaching road where HD map data is not maintained	Diagnosis Procedure
	When tollhouse, exit, road split, junction, or lane reduction is ahead	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when tollhouse, exit, road split, junction, or lane reduction is ahead	Diagnosis Procedure
	Approaching road where a two-way traffic section	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when approaching road where a two-way traffic section	Diagnosis Procedure
	Not receiving GNSS signal	After checking the driving situation, explain to customer that ProPILOT Assist 2.0 display turns from blue to green when GNSS signal cannot be received	Diagnosis Procedure
	When HD map and actual road are different	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when HD map and actual road are different	—
Wiper is operated with low speed		After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when wiper is operated with low speed	Diagnosis Procedure
Depressing accelerator pedal		After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when depressing accelerator pedal	Diagnosis Procedure
Warning is operated	Approach warning sounds	After checking driving situation with customer, and explain that ProPILOT Assist 2.0 display turns from blue to green when approach warning sounds	Diagnosis Procedure

Possible cause	Inspection item	Reference page
	Lane departure warning sounds	Diagnosis Procedure
12 V system components are operated under overload condition	<ul style="list-style-type: none"> • Check with customer that A/C, wiper, headlights, power socket, etc. are not overloaded • Explain that ProPILOT Assist 2.0 display turns from blue to green in the above state 	—

Sample

Diagnosis Procedure

SIEMD-7255958

Check whether symptom is due to normal operation before performing diagnosis. Refer to [Precautions for ProPILOT Assist 2.0](#).

Possible cause		Inspection item		Reference page
ProPILOT Assist 2.0 switch cannot be turned ON		Symptom diagnosis: Refer to "ProPILOT Assist 2.0 cannot be turned ON"		Symptom Table
Cannot set	SET-SW is stuck	ADAS control unit 2: Check "SET/CRUISE SW" of data monitor item		Diagnosis Description
		Check self-diagnosis result of ADAS control unit 2		DTC Index
	VCM cannot read SET-SW operation	Check self-diagnosis result of VCM		DTC Index
		ADAS control unit 2 cannot receive SET-SW operation signal via CAN communication (Check CAN communication)		DTC Index
Cancelled	CANCEL SW is stuck	ADAS control unit 2: Check "CANCEL SW" of data monitor item		Diagnosis Description
		Check self-diagnosis result of ADAS control unit 2		DTC Index
	Brake pedal position SW is stuck	ADAS control unit 2: Check "Stop lamp SW" of data monitor item		Diagnosis Description
		Check self-diagnosis result of ADAS control unit 2		DTC Index
Abnormal vehicle speed	Sensor of wheel side is malfunction	Check self-diagnosis result of ABS actuator and control unit (control unit)		DTC Index
	Tire slips	Check cancellation factor 1 and check whether vehicle was traveling on slippery road surface		Diagnosis Description
	VDC activates	Check cancellation factor 1 and check whether VDC was activated		Diagnosis Description
Vehicle ahead cannot be detected	Distance sensor is dirty	When detecting "Front radar detection performance degradation" during cancellation factor 1 check, clean around distance sensor		Diagnosis Description
	Distance sensor malfunction	Check self-diagnosis result of ADAS control unit 2		DTC Index
When vehicle ahead is not detected, vehicle speed drops below 25 km/h (16 MPH)		Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function		Cancellation condition: System Description
Detected driver leaving	Seat belt is not fastened	Driver's seat belt buckle switch malfunction	ADAS control unit 2: Check "Driver's seat belt state" of data monitor item	Diagnosis Description
		Driver unfastens seat belt	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description
	Not detected sitting driver	Driver leaves driver's seat	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description
Detected that driver's seat, passenger seat, or rear seat door is open	Door switch malfunction	BCM: Check each "DOOR SW" of data monitor item		Cancellation condition: CONSULT Function (BCM - BCM)

Possible cause	Inspection item	Reference page	
	Driver's seat, passenger seat, or rear seat door is opened	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description
AT shift selector is except D or manual mode position	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description	
Drive mode selector is set to SNOW	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description	
Electric parking brake is applied	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description	
VDC is turned OFF	Check driving situation with customer, and if situation is as shown on the left, explain that it is just condition for canceling vehicle speed/vehicle-to-vehicle distance control function	Cancellation condition: System Description	