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2018 NISSAN Kicks OEM Service and Repair Workshop Manual

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Work Procedure

SIEMD-7267338

Vehicle specification needs to be written with CONSULT because it is not written after replacing the chassis control module.

For details the operation, refer to “CONSULT Operation Manual”.

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to chassis control module according to "Replace ECU" in CONSULT Operation Manual.

>>

WORK END

SIEMD-7267337

Vehicle specification needs to be written with CONSULT because it is not written after replacing the chassis control module.

For details the operation, refer to “CONSULT Operation Manual”.

Work Procedure [After Replacing Chassis Control Module]

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to chassis control module according to "Replace ECU" in CONSULT Operation Manual.

>>

GO TO 2.

2. PERFORM NECESSARY WORK

1. Perform configuration. Refer to Work Procedure.
2. Perform MAC key writing. Refer to Work Procedure.
3. Perform self-diagnosis for “CHASSIS CONTROL”.
4. Erase the memory of self-diagnosis results.

>>

WORK END

Symptom Table

SIEMD-7268449

Perform self-diagnosis using CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected. Refer to DTC Index.

Symptom		Possible cause	Inspection item
Intelligent trace control inoperative/ineffective	No intelligent trace control assist	Intelligent trace control selected OFF in the information display.	Change intelligent trace control selection in the information display to ON.
		VDC OFF setting is engaged.	VDC OFF setting to the OFF.
		Brake pad wear.	Check the brake pads and replace if necessary.
		Certain roads, inclement weather or driving conditions.	System is functioning normally, confirm the driving condition with the customer.
	Excessive lag on turns	Wheel alignment.	Repair alignment malfunction.
		• Road wheel tire condition is abnormal. • Road wheel tire size is abnormal.	Check the road wheel tire.
		Certain roads, inclement weather or driving conditions.	System is functioning normally, confirm the driving condition with the customer.

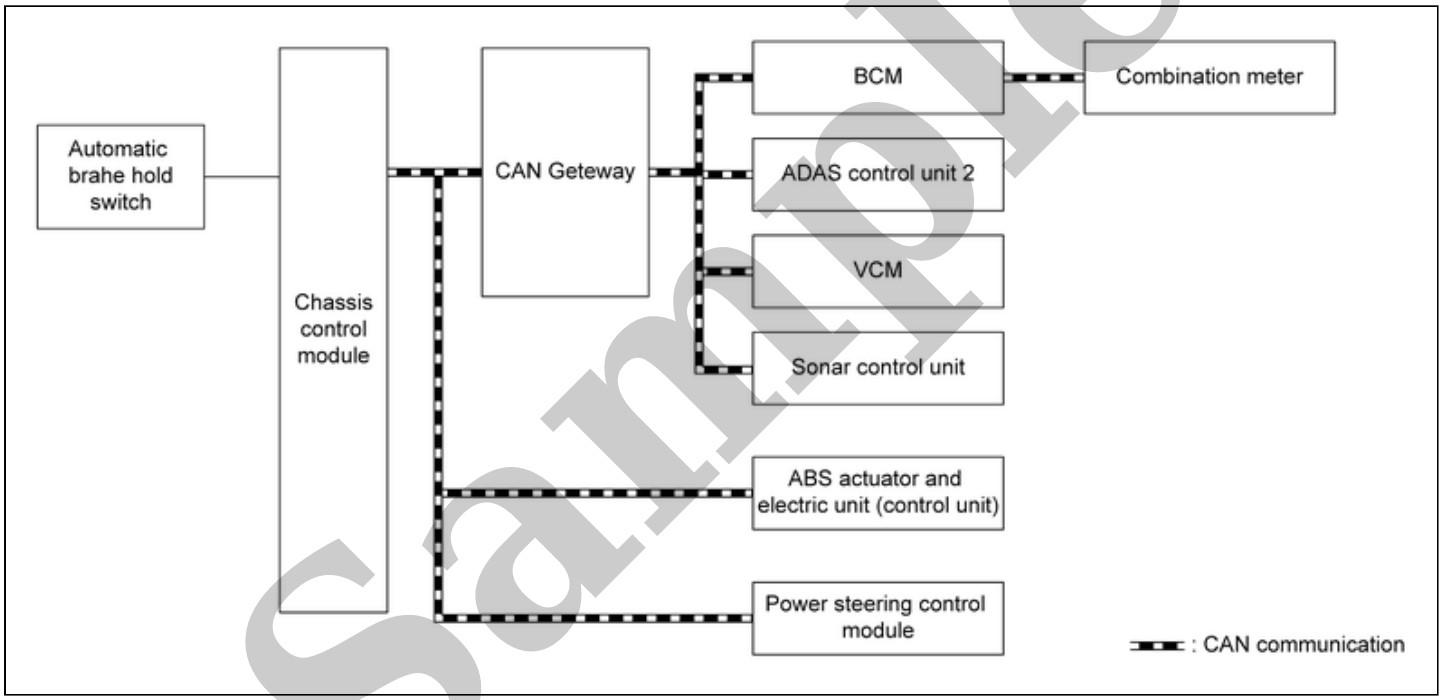
SIEMD-7267319

- Chassis control to integrally control the driving system was adopted.
- Chassis control module inputs the necessary information for control from CAN communication and each switch and integrally controls each system. Refer to the following table for systems controlled, input signal, and output signal.

Function	Reference page
Intelligent trace control function	Refer to System Description.
Automatic brake hold function	Refer to System Description.
e-Step function	Refer to System Description.
Drive mode selector function	Refer to System Description.

SYSTEM DIAGRAM

Without ProPILOT Assist 2.0



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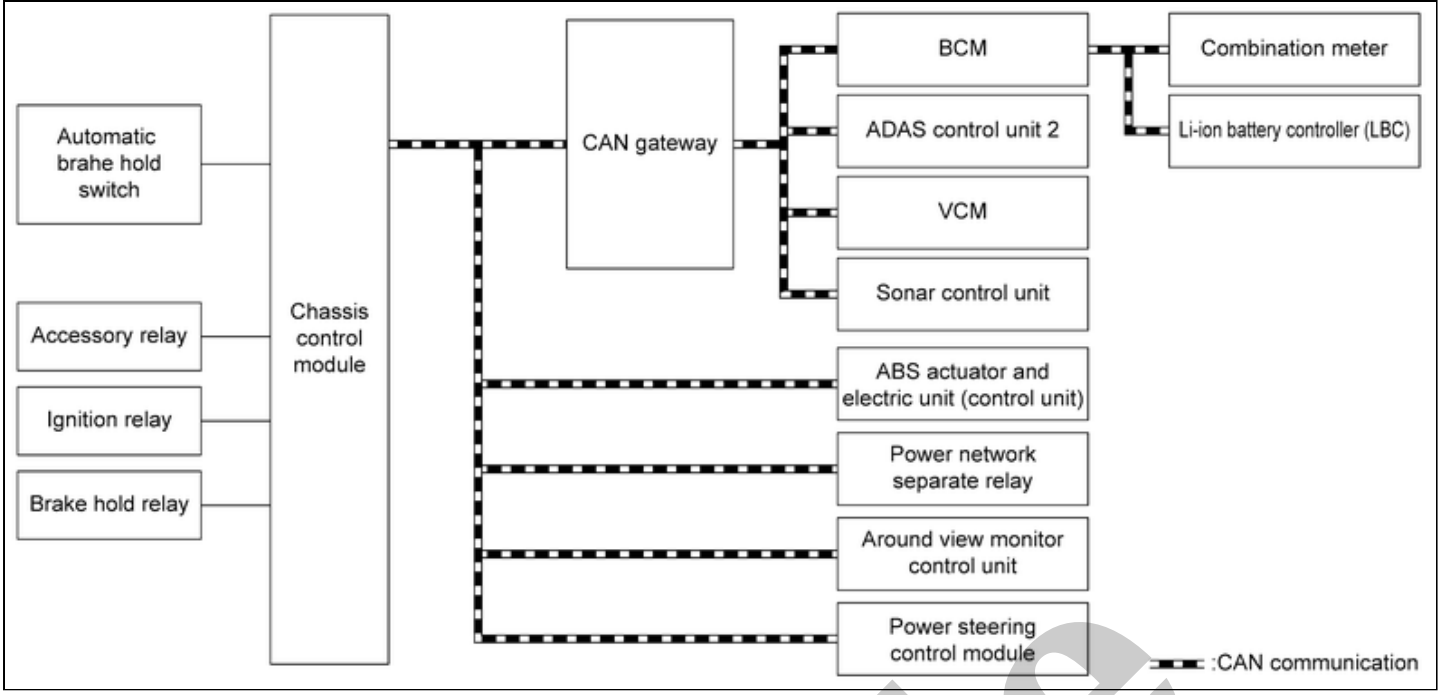
With ProPILOT Assist 2.0



SIEMD-7267319-02-000420489

INPUT SIGNAL AND OUTPUT SIGNAL

Major signal transmission between each unit via communication lines is shown in the following table.

Component parts	Signal description
BCM	Mainly transmits the following signals to chassis control module via CAN communication. • Drive mode select switch signal • Stop lamp malfunction signal • Brake pedal status signal • Stop lamp switch malfunction signal • Seat belt buckle switch (driver side) signal • Power switch ON signal Mainly receives the following signals from ABS actuator and electric unit (control unit) via CAN communication. • Stop lamp request signal
Combination meter	Mainly transmits the following signals to chassis control module via CAN communication. • Intelligent trace control setting signal Mainly transmits the following signals to VCM via CAN communication. • e-Step mode memory setting signal Mainly receives the following signals from chassis control module via CAN communication. • Drive mode signal • Meter display setting signal • Meter display signal • Automatic brake hold indicator lamp signal • Chassis control module malfunction signal

Component parts	Signal description
	Mainly receives the following signals from VCM via CAN communication. • e-Step mode display signal • e-Step malfunction display signal • e-Step memory status signal Mainly receives the following signals from BCM via CAN communication. • Stop lamp ON status signal
ADAS control unit 2	Mainly transmits the following signals to chassis control module via CAN communication. • Brake torque request signal • Yaw moment request signal • ProPILOT status signal • Steering angle request signal Mainly receives the following signals from chassis control module via CAN communication. • Drive mode signal • ProPILOT status signal
VCM	Mainly transmits the following signals to chassis control module via CAN communication. • Accelerator pedal position signal • Front wheel torque signal* • Rear wheel torque signal* • Estimate drive torque signal • Shift position signal • Traction motor torque signal • Request drive torque signal • e-Step status signal • VCM malfunction signal • Motor speed signal • Estimate slop signal • Accelerator pedal position signal • Estimate drive torque signal • Coast deceleration torque signal • Brake torque request signal Mainly receives the following signals from ABS actuator and electric unit (control unit) via CAN communication. • Brake torque signal • Torque down request signal*

Component parts	Signal description
	• Rear wheel torque correction request signal* Mainly receives the following signals from chassis control module via CAN communication. • Drive mode signal • Chassis control module malfunction signal • Slop estimate permission signal • Coast limit torque signal Mainly receives the following signals from ADAS control unit 2 via CAN communication. • Intelligent cruise control signal • ProPILOT status signal
Sonar control unit	Mainly transmits the following signals to chassis control module via CAN communication. • ProPILOT park status signal
ABS actuator and electric unit (control unit)	Mainly transmits the following signals to chassis control module via CAN communication. • Vehicle speed signal • Rear LH wheel speed signal • Front LH wheel speed signal • Rear RH wheel speed signal • Front RH wheel speed signal • Steering angle sensor signal • Side G sensor signal • Decel G sensor signal • Brake fluid pressure signal • Regenerative brake signal • VDC status signal • Driver brake signal • VDC OFF signal • ABS operation signal • ABS malfunction signal • TCS operation signal • TCS malfunction signal • VDC operation signal • VDC malfunction signal • Brake hold status signal • Electric parking brake operation signal (switch)

Component parts	Signal description
	• Electric parking brake status signal • Electric parking brake malfunction signal • Deceleration control permission status signal • Target brake force signal Mainly transmits the following signals to VCM via CAN communication. • Electric parking brake operation status signal • Regenerative request torque signal Mainly receives the following signals from chassis control module via CAN communication. • Brake torque request signal • Yaw moment request signal • Stop lamp OFF request signal • Stop lamp ON request signal Mainly receives the following signals from VCM via CAN communication. • Coast deceleration torque signal • Accelerator pedal position signal • Motor speed signal • Shift position signal • Estimate drive torque signal • Regenerative possible torque signal
Power steering control module	Mainly receives the following signals from chassis control module via CAN communication. • Drive mode signal • Steering angle request signal • Steering status signal
Li-ion battery controller (LBC)	Mainly transmits the following signals to chassis control module via CAN communication. • Li-ion battery status signal
Power network separate relay	Mainly transmits the following signals to chassis control module via CAN communication. • Power network separate relay status signal Mainly receives the following signals from chassis control module via CAN communication. • Power network separate relay open request signal
Around view monitor control unit	Mainly transmits the following signals to chassis control module via CAN communication. • Brake torque request signal

Component parts	Signal description
	• Steering angle request signal • ProPilot assist status signal

*: AWD models