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2018 NISSAN Tiida/Versa OEM Service and Repair Workshop Manual

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Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
							The item is displayed, but it is not used
LDW system [OFF/ON]	×		×				Indicates an [ON/OFF] state of the LDW system
LDW warning lamp [OFF/ON]	×						**NOTE: The item is displayed, but it is not used**
STRG TOUCH SEN DETECT [OFF/ON]	×						Indicates the detection status of the steering wheel touch sensor
EMERGENCY DISPLAY [OFF/ON]	×						Indicates the display status of the ProPILOT Assist 2.0 warning message
EMERGENCY ALERT [OFF/ON]	×						Indicates the status of the buzzer blowing, which is activated in conjunction with the ProPILOT Assist 2.0 warning message
DISTANCE TO INTERSECTION [m]	×						Indicates distance information from the vehicle to the intersection
Side radar L block [OFF/ON]	×						Indicates output status [ON/OFF] of side radar rear left dirt warning indicator
Side radar R block [OFF/ON]	×						Indicates output status [ON/OFF] of side radar rear right dirt warning indicator
Steering torque (measured) [Nm]	×						**NOTE: The item is displayed, but it is not used**
Steering torque (dealer) [Nm]	×						**NOTE: The item is displayed, but it is not used**

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
Torque sensor value [Nm]	×						**NOTE:** **The item is displayed, but it is not used**
Steering torque (currently) [Nm]	×						**NOTE:** **The item is displayed, but it is not used**

ACTIVE TEST

CAUTION:

- **Never perform “Active Test” while driving the vehicle.**
- **The “Active Test” cannot be performed when the following systems malfunction is displayed.**
  - **AEB**
  - **RAB**
  - **ProPILOT Assist 2.0**
  - **I-FCW**
  - **LDW**
  - **I-LI**
  - **BSW**
  - **I-BSI**
  - **I-DA**
  - **TSR**
  - **RCTA**
- **Shift the selector lever to “P” position, and then perform the test.**

Test item	Description
Vibration motor	Operate a steering vibration motor by arbitrarily operating ON/OFF
ICC BUZZER	Sounds a buzzer by arbitrarily operating ON/OFF
EMERGENCY DISPLAY	Operate a hands off warning display by arbitrarily operating ON/OFF
EMERGENCY ALERT	Operate a hands off warning buzzer by arbitrarily operating ON/OFF

Vibration motor

NOTE:

The test can be performed only when the set the vehicle to READY.

Test item	Operation	Description	Steering vibration motor
Vibration motor	OFF	Stops transmitting the motor operation signal below to end the test	—
	ON	Transmits the motor operation signal to the steering vibration motor	ON

ICC BUZZER

NOTE:
The test can be performed only when the set the vehicle to READY.

Test item	Operation	Description	Buzzer
ICC BUZZER	MODE1	Transmits the buzzer output signal to the combination meter	Pip pip pip...
	MODE2		Pupupupup
	MODE3		Pip pip
	MODE4		Peep Peep

EMERGENCY DISPLAY

NOTE:
The test can be performed only when the set the vehicle to READY.

Test item	Operation	Description	Hands off warning display
EMERGENCY DISPLAY	OFF	Stops transmitting the meter display signal below to end the test	—
	ON	Transmits the meter display signal to the combination meter	ON

EMERGENCY ALERT

NOTE:
The test can be performed only when the set the vehicle to READY.

Test item	Operation	Description	Hands off warning buzzer
EMERGENCY ALERT	OFF	Stops transmitting the buzzer output signal below to end the test	—
	ON	Transmits the buzzer output signal to the combination meter	ON

WORK SUPPORT

Work support items	Description
VIN registration	Register of the vehicle identification number when replacing ADAS control unit 2.
Steering torque calibration	Start the steering torque calibration

Work support items	Description
MAC key writing	Write MAC key to ADAS control unit 2
CAUSE OF AUTO-CANCEL 1	Displays causes of automatic system cancellation occurred during control of the following systems • AEB • ProPILOT Assist 2.0
CAUSE OF AUTO-CANCEL 2	**NOTE:** **The item is displayed, but it is not used**
CAUSE OF AUTO-CANCEL 6	**NOTE:** **The item is displayed, but it is not used**
FEB OPERATION MILEAGE	**NOTE:** **The item is displayed, but it is not used**
OTA status reset	**NOTE:** **The item is displayed, but it is not used**

NOTE:

- **Causes of the maximum five cancellations (system cancel) are displayed.**
- **The displayed cancellation causes display the number of the power switch ON/OFF up to 254. It is fixed to 254 if it is over 254. It returns to 0 when the same cancellation cause is detected again.**

VIN registration

Refer to Work Procedure.

Steering torque calibration

Refer to Work Procedure.

MAC KEY writing

Refer to Work Procedure.

Display Items for The CAUSE OF AUTO-CANCEL 1

AEB,ProPILOT Assist

Cause of cancellation	AEB	ProPILOT Assist2.0	Description
OPERATING WIPER		×	Wiper function was operated
OPERATING ABS	×		ABS function was operated
OPERATING TCS	×	×	TCS function was operated
OPERATING VDC	×	×	VDC function was operated
OPE SW VOLT CIRC		×	The ProPILOT Assist 2.0 steering switch input voltage is not within standard range
VDC/TCS OFF SW	×	×	VDC OFF in the information display was selected
OP SW DOUBLE TOUCH		×	Steering switches were pressed at the same time
VHCL SPD DOWN		×	Vehicle speed is lower than the set vehicle speed
WHL SPD ELEC NOISE	×	×	Electromagnetic noise interfered with Wheel speed sensor signal
VHCL SPD UNMATCH	×	×	Wheel speed and vehicle speed became inconsistent
TIRE SLIP		×	Because the tire slipped
IGN LOW VOLTAGE	×	×	Decrease in ADAS control unit 2 power switch ON voltage
PARKING BRAKE ON	×	×	The vehicle was driven with parking brake ON
WHEEL SPD UNMATCH	×	×	The wheel speeds of 4 wheels are out of the specified values
INCHING LOST		×	A vehicle ahead is not detected during the following driving when the vehicle speed is approximately 25 km/h (15 MPH) or less
CAN COMM ERROR	×	×	ADAS control unit 2 received an abnormal signal with CAN communication
ABS/TCS/VDC CIRC	×	×	An abnormal condition occurs in ABS/TCS/VDC system
ECD CIRCUIT		×	An abnormal condition occurs in ABS/TCS/VDC system
ASCD VHCL SPD DTAC		×	Vehicle speed is detached from set vehicle speed
ASCD DOUBLE COMD		×	Cancel switch and operation switch are detected simultaneously
ICC SENSOR CAN COMM ERR	×	×	Communication error between ADAS control unit 2 and the distance sensor
FR RADAR BLOCKED	×	×	Inclusion of dirt or stains on the distance sensor area of the front grill
ABS WARNING LAMP	×		ABS warning lamp ON
FEB) CURVATURE	×		Road curve was more than the specified value
FEB) YAW RATE	×		Detected yawing speed was more than the specified value
FEB) LATERAL ACCELERATION	×		Detected lateral speed is the specified value or more
RADAR INTERFERENCE	×	×	Distance sensor receives electromagnetic interference
TOWING	×		When being towed
FEB COUNT LIMIT	×		Because the AEB has been activated 3 times
LANE CAMERA BLOCKED	×	×	Inclusion of dirt or stain on front camera unit field of view (example) window with fogging, window with dirt, strong light from front etc...)
Door open		×	Either door was opened
Front camera blocked		×	Inclusion of dirt or stain on front camera unit field of view (example) window with fogging, window with dirt, strong light from front etc...)
Step brake/accel at once		×	The brake and accelerator pedals are depressed simultaneously
Piloted drive conti operate time		×	3 minutes are passed after the vehicle is stopped by ProPILOT Assist 2.0 and the electric parking brake is engaged

Cause of cancellation	AEB	ProPILOT Assist2.0	Description
Get-out judgment		×	The system determines that the driver exits the vehicle
EPS circuit		×	The EPS control system refuses to permit activation of the ProPILOT Assist 2.0 system
ePKB circuit		×	The electric parking brake system refuses to permit activation of the ProPILOT Assist 2.0 system
CCM circuit		×	Chassis control module refuses to permit activation of the ProPILOT Assist 2.0 system
FEB/EAPM actuation		×	AEB function was operated
Sloping road judgment		×	The system determines that the road is a hill with a gradient too steep for control
Release hand judgment		×	The system determines that the driver is not holding the steering during driving
Turn signal operation judgment		×	Turn signal operation function was operated
Lane marker lost		×	The system no longer detects the lane markers
Leading vehicle lost (side)		×	The vehicle ahead changes lanes and is no longer in front of this vehicle
LDP/BSI actuation		×	I-LI or I-BSI function was operated
Lane camera offset center	×	×	Significant change in vehicle attitude or improper installation position of front camera unit
NO RECORD	×	×	—

ECU IDENTIFICATION

Displays ADAS control unit 2 parts number.

CONFIGURATION

Vehicle specification can be written, when ADAS control unit 2 is replaced.

NETWORK-DTC

Displays the network-DTCs judged by ADAS control unit 2, when all self-diagnosis is performed. Refer to DTC Index.

MAC DIAGNOSIS

Displays MAC diagnosis results by inspection priority. Refer to DTC Index.

SIEMD-7109126

APPLICATION ITEMS

CONSULT performs the following functions via CAN communication using ADAS control unit 2.

Diagnosis mode	CGW Status			Description
	Restricted Mode	Diag Test Mode	Open Mode	
Self Diagnostic Result	Display	Display	Display	Retrieve DTC from ECU and display diagnostic items
CGW Information	Display	Display	Display	• Display the current CGW mode • Enables CGW to switch mode
Data Monitor	Display	Display	Display	Monitor the input/output signal of the control unit in real time
Active Test	Non-display	Display	Display	• Send the drive signal from CONSULT to the actuator • The operation check can be performed
Work Support	Non-display	Non-display	Display	This mode enables a technician to adjust some devices faster and more accurately
ECU Identification	Display	Display	Display	Display the ECU identification number (part number etc.) of the selected system
Configuration*	Display	Display	Display	The vehicle specification can be written when the control unit is replaced
Network-DTC*	Display	Display	Display	Display network DTC which the control unit memorizes when performing "Diagnosis (All System)".
MAC Diagnosis*	Display	Display	Display	Display MAC diagnosis result divided into the following two inspection priorities. • Inspection Priority 1: Root cause • Inspection Priority 2

*: Displays when performing "Diagnosis (All System)".

SELF DIAGNOSTIC RESULT

Refer to DTC Index.

NOTE:
SELF DIAGNOSTIC RESULT

- **CRNT: A malfunction is detected now**
- **PAST: A malfunction was detected in the past**

FFD (Freeze Frame Data)

The ADAS control unit 2 records the following data when the malfunction is detected.

CONSULT screen item (Indication/Unit)	Description
ODO/TRIP METER (km)	Vehicle speed of the moment a particular DTC is detected
DTC count (count)	Indicates the detection count of the corresponding DTC

CGW INFORMATION

Display the diagnosis mode which a user can perform in Diag Test mode/Open Mode by switching the CGW status from Restricted mode to Diag Test Mode/Open Mode.

For the method of switching CAN Gateway status, Refer to CONSULT Function.

DATA MONITOR

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
Current malfunction	×						Indicates DTC detected as the current malfunction
PWR SUP MONI [V]	×	×				×	Indicates the ADAS control unit 2 power supply voltage
MAIN SW [OFF/ON]	×	×	×	×			Indicates [ON/OFF] status of ProPILOT Assist MAIN switch as judged from steering switch
CANCEL SW [OFF/ON]	×	×					Indicates [ON/OFF] status of CANCEL switch as judged from steering switch
SET/COAST SW [OFF/ON]	×	×					Indicates [ON/OFF] status of SET- switch as judged from steering switch
RESUME/ACC SW [OFF/ON]	×	×					Indicates [ON/OFF] status of RES+ switch as judged from steering switch
DISTANCE SW [OFF/ON]	×						Indicates [ON/OFF] status of DISTANCE switch as judged from steering switch
Switch1 [OFF/ON]	×	×		×			**NOTE:** **The item is displayed, but it is not used**
Switch2 [OFF/ON]	×						Indicates [ON/OFF] status of steering assist switch

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
BRAKE SW [OFF/ON]	×	×	×	×	×	×	**NOTE: The item is displayed, but it is not used**
IDLE SW [OFF/ON]	×				×	×	**NOTE: The item is displayed, but it is not used**
STOP LAMP SW [OFF/ON]	×	×	×	×	×	×	Indicates [ON/OFF] status of stop lamp switch signal from ADAS control unit 2 through CAN communication
Stop lamp (BU) drive status [OFF/ON]	×						**NOTE: The item is displayed, but it is not used**
DRIVE MODE STATS [NRML/ECO/SPORT/RACE]	×	×	×	×			**NOTE: The item is displayed, but it is not used**
OFF-ROAD SW [OFF/ON]	×		×	×	×		**NOTE: The item is displayed, but it is not used**
G (vertical) [G]	×					×	**NOTE: The item is displayed, but it is not used**
G (lateral) [G]	×		×	×			Indicates lateral G acting on the vehicle. This lateral G is judged from a side G sensor signal read by ADAS control unit 2 via CAN communication (The ABS actuator and electric unit (control unit) transmits a side G sensor signal via CAN communication)
Vehicle speed [km/h]	×				×		Indicates vehicle speed as judged from ADAS control unit 2 via CAN communication [ABS actuator and electric unit (control unit) transmits vehicle speed signal through CAN communication]