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2018 NISSAN Tiida/Versa Sedan 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
SET VHCL SPD [km/h]	×	×					Indicates set vehicle speed memorized in ADAS control unit 2
EPS ST angle command value [deg]	×						 NOTE: The item is displayed, but it is not used
EPS status [State1/State2/State3]	×						 NOTE: The item is displayed, but it is not used
EPS control request [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
EPS mode switching request [Mode1/Mode2]	×						 NOTE: The item is displayed, but it is not used
Vibration motor open status [Off/On]	×						Indicates steering vibration motor open status
THRTL OPENING [%]	×		×	×	×		Indicates throttle position judged from ADAS control unit 2 through CAN communication (VCM transmits accelerator pedal position signal through CAN communication)
Shift position [OFF/P/R/N/D/S/L/B]	×		×	×	×	×	Indicates shift position read from ADAS control unit 2 through CAN communication (VCM transmits shift position signal through CAN communication)
Parking brake holding request [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
Parking brake release request [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
Wiper signal	×			×			Indicates wiper status signal judged from ADAS control unit

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
[Low/High]							2 through CAN communication
Turn signal [OFF/LH/RH]	×		×	×			Indicates turn signal operation status read from ADAS control unit 2 through CAN communication (BCM transmits turn indicator signal through CAN communication)
SET DISTANCE [Long/Mid/Short]	×	×					Indicates set distance memorized in ADAS control unit 2
Own vehicle mark [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
Vhcl ahead recognition [NG/OK]	×						Indicates the vehicle ahead detection status by the driver assistance system
CRUISE LAMP [OFF/ON]	×	×					 NOTE: The item is displayed, but it is not used
CRUISE OPE [OFF/ON]	×	×					Indicates whether the ProPILOT Assist is in control (ON means "controlling").
Pro Pilot ON/OFF request [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
VHCL SPEED SE [km/h] or [mph]	×						Indicates vehicle speed calculated from ADAS control unit 2 through CAN communication [ABS actuator and electric unit (control unit) transmits vehicle speed signal (wheel speed) through CAN communication]
D RANGE SW [OFF/ON]	×						Indicates [On/Off] status of "D" positions read from ADAS control unit 2 through CAN communication; ON when position "D" (VCM transmits shift position signal through CAN communication)
NP RANGE SW [OFF/ON]	×						Indicates shift position signal read from ADAS control unit 2 through CAN communication (VCM transmits shift position signal through CAN communication)
RELEASE SW NO	×						Indicates [On/Off] status as judged from stop lamp switch

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
[OFF/ON]							signal (BCM transmits stop lamp switch signal through CAN communication)
RELEASE SW NC [OFF/ON]	×						Indicates [On/Off] status as judged from brake switch signal (BCM transmits brake switch signal through CAN communication)
FEB SELECT [OFF/ON]	×						Indicates an [ON/OFF] state of the AEB system
LDW SELECT [OFF/ON]	×	×	×	×			 NOTE: The item is displayed, but it is not used
LDP SELECT [OFF/ON]	×	×	×	×			Indicates an [ON/OFF] state of the I-LI system
Steering assist function select [OFF/ON]	×	×	×	×			Indicates an [ON/OFF] state of the steering assist system
TARGET VEHICLE SPEED (NAVI) [m/s2]	×						 NOTE: The item is displayed, but it is not used
FEB SW [OFF/ON]	×						 NOTE: The item is displayed, but it is not used
ICC warning output [OFF/ON]	×						Indicates ProPILOT Assist malfunction message status
Speed control mode [OFF/ICC/ASCD]	×						Indicates cruise control mode status
Set display lamp [OFF/ICC/ASCD]	×						Indicates ProPILOT Assist system display status
LDP system [OFF/ON]	×		×				 NOTE: The item is displayed, but it is not used
LDP ON IND [OFF/ON]	×						Indicates an [ON/OFF] state of the I-LI system
LDW system	×		×				Indicates an [ON/OFF] state of the LDW system

Monitored item [Unit]	ALL SIGNALS	MAIN SIG (ICC)	MAIN SIG (LDP)	MAIN SIG (BSW/BSI)	MAIN SIG (BCI)	MAIN SIG (EAP)	Description
[OFF/ON]							
DISTANCE TO INTERSECTION [m]	×						 NOTE: The item is displayed, but it is not used
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
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
 - I-FCW
 - LDW
 - I-LI
 - BSW
 - I-BSI
 - I-DA
 - TSR

o 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
MAC key writing	Write MAC key to ADAS control unit 2
CAUSE OF AUTO-CANCEL 1	<p>Displays causes of automatic system cancellation occurred during control of the following systems</p> <ul style="list-style-type: none"> • AEB • ProPILOT Assist
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

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 Assist	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 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	×	×	Distance sensor receives electromagnetic interference

Cause of cancellation	AEB	ProPILOT Assist	Description
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 and the electric parking brake is engaged
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 system
ePKB circuit		×	The electric parking brake system refuses to permit activation of the ProPILOT Assist system
CCM circuit		×	Chassis control module refuses to permit activation of the ProPILOT Assist 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](#).

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F04	61	FEB OPE COUNT LIMIT (Forward Emergency Braking operation count limit)	Diagnosis condition	When driving at the vehicle speeds of approximately 40 km/h or more.
			Signal (terminal)	Stop lamp switch signal
			Threshold	A mismatch between a stop lamp switch signal and a brake pedal position switch signal received from BCM
			Diagnosis delay time	60 seconds or more

POSSIBLE CAUSE

- BCM
- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

- Vehicle speed & vehicle-to-vehicle control function
- Lane keep function*1
- Lane keep function*2
- Lane change support function
- Overtaking support function
- Route driving support function
- AEB
- RAB
- I-FCW
- TSR

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F04-61” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>