

# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2018 NISSAN Teana OEM Service and Repair Workshop Manual

[Go to manual page](#)

Always perform the additional service after replacing the ADAS control unit 2.

## 1. ADAS CONTROL UNIT 2 CONFIGURATION

---

Perform the ADAS control unit 2 configuration. Refer to [Work Procedure](#).

>>

[GO TO 2.](#)

## 2. VIN REGISTRATION

---

1. Turn power switch OFF.
2. Turn power switch ON.



**NOTE:**

If power switch is not turned OFF after setting configuration, ADAS control unit 2 may detect DTC.

3. Perform VIN registration. Refer to [Work Procedure](#).

>>

[GO TO 3.](#)

## 3. WRITING MAC KEY

---

Perform MAC key writing. Refer to [Work Procedure](#).

>>

[GO TO 4.](#)

## 4. STEERING TORQUE CALIBRATION

---

Perform the steering torque calibration. Refer to [Work Procedure](#).

>>

[GO TO 5.](#)

## 5. PERFORM SELF-DIAGNOSIS

---

Check if the DTC is detected on the self-diagnosis results of “ICC/ADAS 2”.

Is any DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 6.](#)

## 6. ACTION TEST

---

Perform the system action test to check the operation status of one of the following systems:

- AEB: Refer to [Work Procedure](#).
- RAB: Refer to [Work Procedure](#).
- ProPILOT Assist 2.0: Refer to [Work Procedure](#).
- I-LI: Refer to [Work Procedure](#).
- I-BSI: Refer to [Work Procedure](#).
- TSR: Refer to [Work Procedure](#).
- I-DA: Refer to [Work Procedure](#).

>>

INSPECTION END

Sample

Always perform the additional service after replacing the ADAS control unit 2.

## 1. ADAS CONTROL UNIT 2 CONFIGURATION

---

Perform the ADAS control unit 2 configuration. Refer to [Work Procedure](#).

>>

[GO TO 2.](#)

## 2. VIN REGISTRATION

---

1. Turn power switch OFF.

2. Turn power switch ON.



**NOTE:**

If power switch is not turned OFF after setting configuration, ADAS control unit 2 may detect DTC.

3. Perform VIN registration. Refer to [Work Procedure](#).

>>

[GO TO 3.](#)

## 3. WRITING MAC KEY

---

Perform MAC key writing. Refer to [Work Procedure](#).

>>

[GO TO 4.](#)

## 4. STEERING TORQUE CALIBRATION

---

Perform the steering torque calibration. Refer to [Work Procedure](#).

>>

[GO TO 5.](#)

## 5. PERFORM SELF-DIAGNOSIS

---

Check if the DTC is detected on the self-diagnosis results of “ICC/ADAS 2”.

Is any DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 6.](#)

## 6. ACTION TEST

---

Perform the system action test to check the operation status of one of the following systems:

- AEB: Refer to [Work Procedure](#).
- RAB: Refer to [Work Procedure](#).
- ProPILOT Assist: Refer to [Work Procedure](#).
- I-LI: Refer to [Work Procedure](#).
- I-BSI: Refer to [Work Procedure](#).
- TSR: Refer to [Work Procedure](#).
- I-DA: Refer to [Work Procedure](#).

>>

INSPECTION END

Sample

## DESCRIPTION

---

- ADAS\* control unit 2 controls the following systems, based on CAN communication signal from each control unit.


**NOTE:**

\*: Advanced Driver Assistance Systems

- AEB
- RAB
- ProPILOT Assist
- ProPILOT Assist 2.0
- I-FCW
- I-LI
- I-BSI
- I-DA

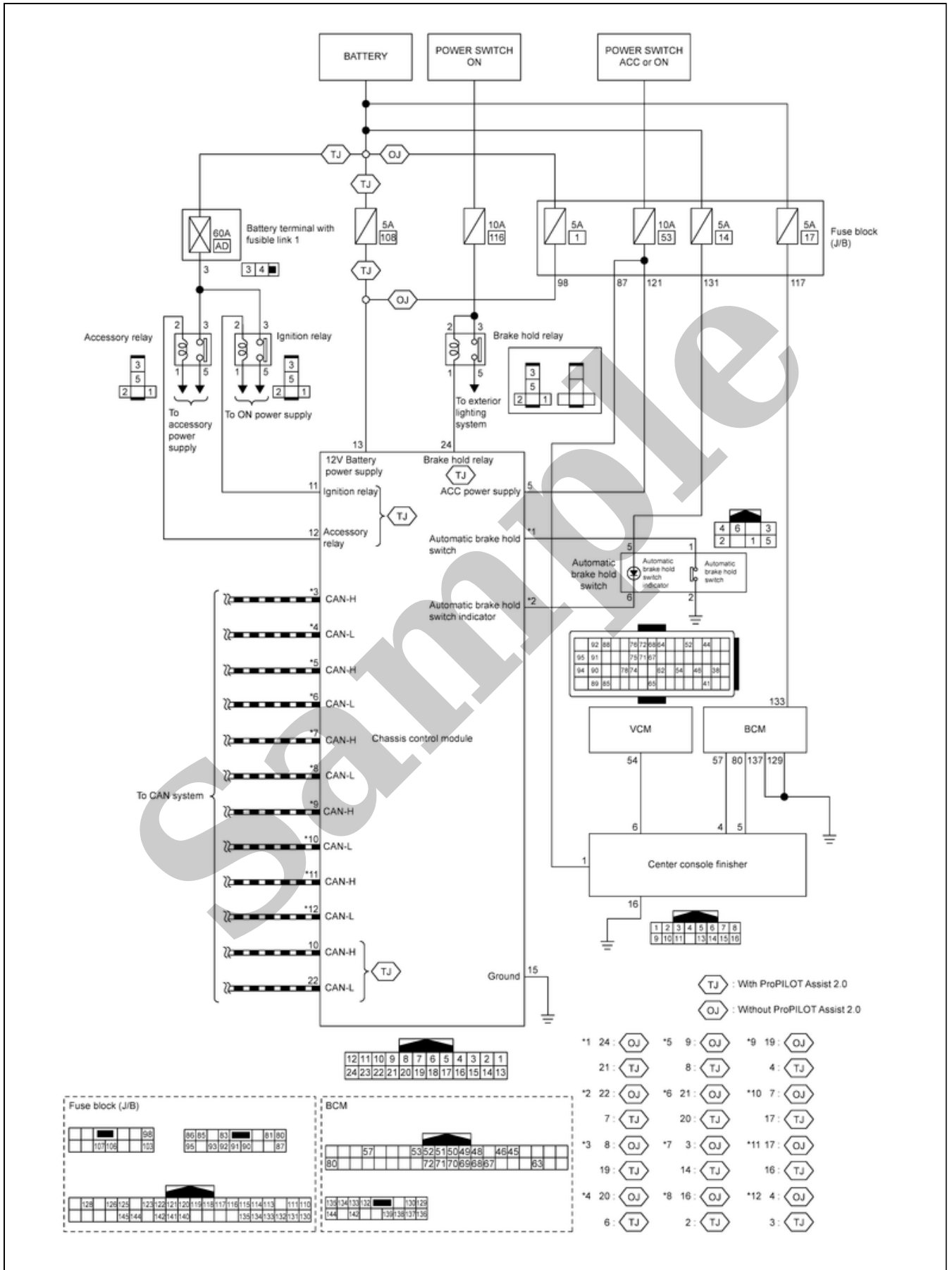
System	Reference
AEB	<a href="#">System Description</a>
RAB	<a href="#">System Description</a>
ProPILOT Assist	<a href="#">System Description</a>
ProPILOT Assist 2.0	<a href="#">System Description</a>
I-FCW	<a href="#">System Description</a>
I-LI	<a href="#">System Description</a>
I-BSI	<a href="#">System Description</a>
I-DA	<a href="#">System Description</a>

## MAC (MESSAGE AUTHENTICATION CODE)

---

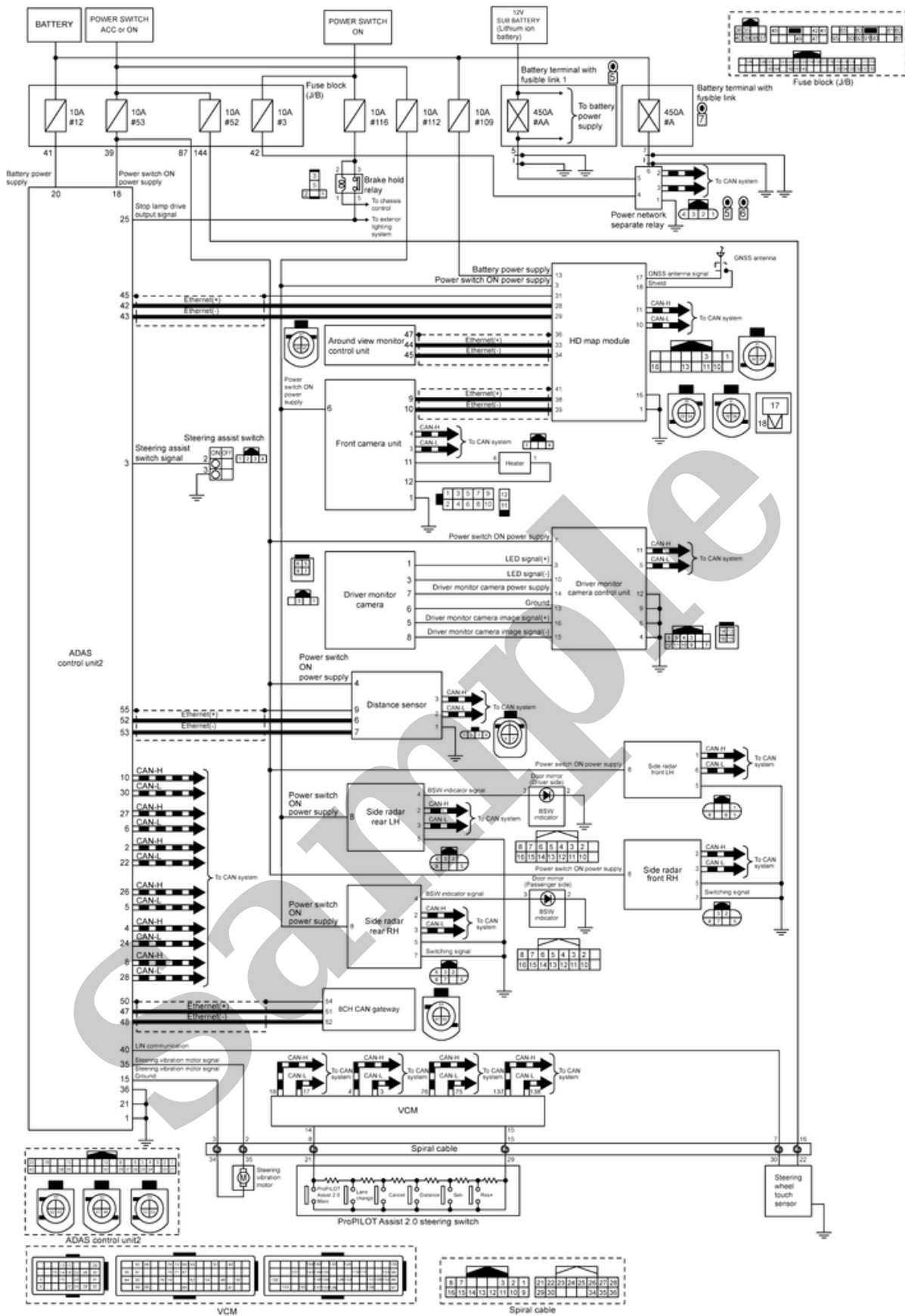
MAC (Message Authentication Code) is a function that prevents unauthorized communication from other than the ECU with MAC function by secure authentication communication. ADAS control unit 2 can write a MAC key required for communication between the ECUs and perform MAC diagnosis.

Without ProPILOT Assist 2.0



SIEMD-7445350-02-000390379

With ProPILOT Assist 2.0





# Fail-safe (ADAS Control Unit)

SIEMD-7109325

If a malfunction occurs in each system, ADAS control unit 2 cancels each control, sounds a beep, and turns ON the warning or indicator lamp.

System	Buzzer	Warning lamp/Warning display	Description
<ul style="list-style-type: none"> <li>AEB</li> <li>I-FCW</li> </ul>	ON	<ul style="list-style-type: none"> <li>AEB warning lamp</li> <li>Warning message</li> </ul>	Cancel
RAB	ON	<ul style="list-style-type: none"> <li>RAB warning lamp</li> <li>Warning message</li> </ul>	Cancel
<ul style="list-style-type: none"> <li>ProPILOT Assist</li> <li>ProPILOT Assist 2.0</li> </ul>	ON	Warning message	Cancel
LDW	—	<ul style="list-style-type: none"> <li>Warning message</li> <li>LDW indicator</li> </ul>	Cancel
I-LI	ON	<ul style="list-style-type: none"> <li>Warning message</li> <li>I-LI indicator</li> </ul>	Cancel
BSW	—	<ul style="list-style-type: none"> <li>Warning message</li> <li>BSW indicator</li> </ul>	Cancel
I-BSI	ON	<ul style="list-style-type: none"> <li>Warning message</li> <li>I-BSI indicator</li> </ul>	Cancel
RCTA	—	Warning message	Cancel
TSR	—	—	Cancel
I-DA	ON	Warning message	Cancel
Driver monitor system	—	Warning message	Cancel

## 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	<ul style="list-style-type: none"> <li>• Display the current CGW mode</li> <li>• Enables CGW to switch mode</li> </ul>
Data Monitor	Display	Display	Display	Monitor the input/output signal of the control unit in real time
Active Test	Non-display	Display	Display	<ul style="list-style-type: none"> <li>• Send the drive signal from CONSULT to the actuator</li> <li>• The operation check can be performed</li> </ul>
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. <ul style="list-style-type: none"> <li>• Inspection Priority 1: Root cause</li> <li>• Inspection Priority 2</li> </ul>

\*: 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.