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.

2021 NISSAN Frontier/Navara King Cab Service and Repair Manual

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Work Procedure

Vehicle specification needs to be written with CONSULT because it is not written after replacing the side radar.

The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the side radar.

> **NOTE:**
>
> For details the network connection and operation, refer to "CONSULT Operation Manual".
>
> The configuration no need to "save" configuration data from the side radar. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.

> **CAUTION:**
>
> - **Complete the procedure of "Configuration" in order.**
>
> - **If incorrect "Configuration", incidents might occur.**

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to side radar following "Automatic Configuration" procedure of "Configuration" according to CONSULT Operation Manual.

> **NOTE:**
>
> - **Log in the network according to CONSULT guidance.**
>
> - **For details the network connection and operation, refer to "CONSULT Operation Manual".**

>>

WORK END

1. CHECK CAMERA LENS AND WINDSHIELD

Are camera lens and windshield contaminated with foreign materials?

YES (When the camera lens is contaminated with foreign materials.)>>

Replace front camera unit (Refer to Removal and Installation.) and GO TO 2.

YES (When the windshield is contaminated with foreign materials.)>>

Clean windshield.

NO>>

GO TO 2.

2. CHECK FRONT CAMERA UNIT INSTALLATION CONDITION

Check front camera unit installation condition (installation position, properly tightened, a bent bracket).

Is it properly installed?

YES>>

GO TO 3.

NO>>

Install front camera unit properly, and perform camera aiming.

3. CHECK VEHICLE HEIGHT

Check vehicle height. Refer to WHEELARCH HEIGHT : Service Data.
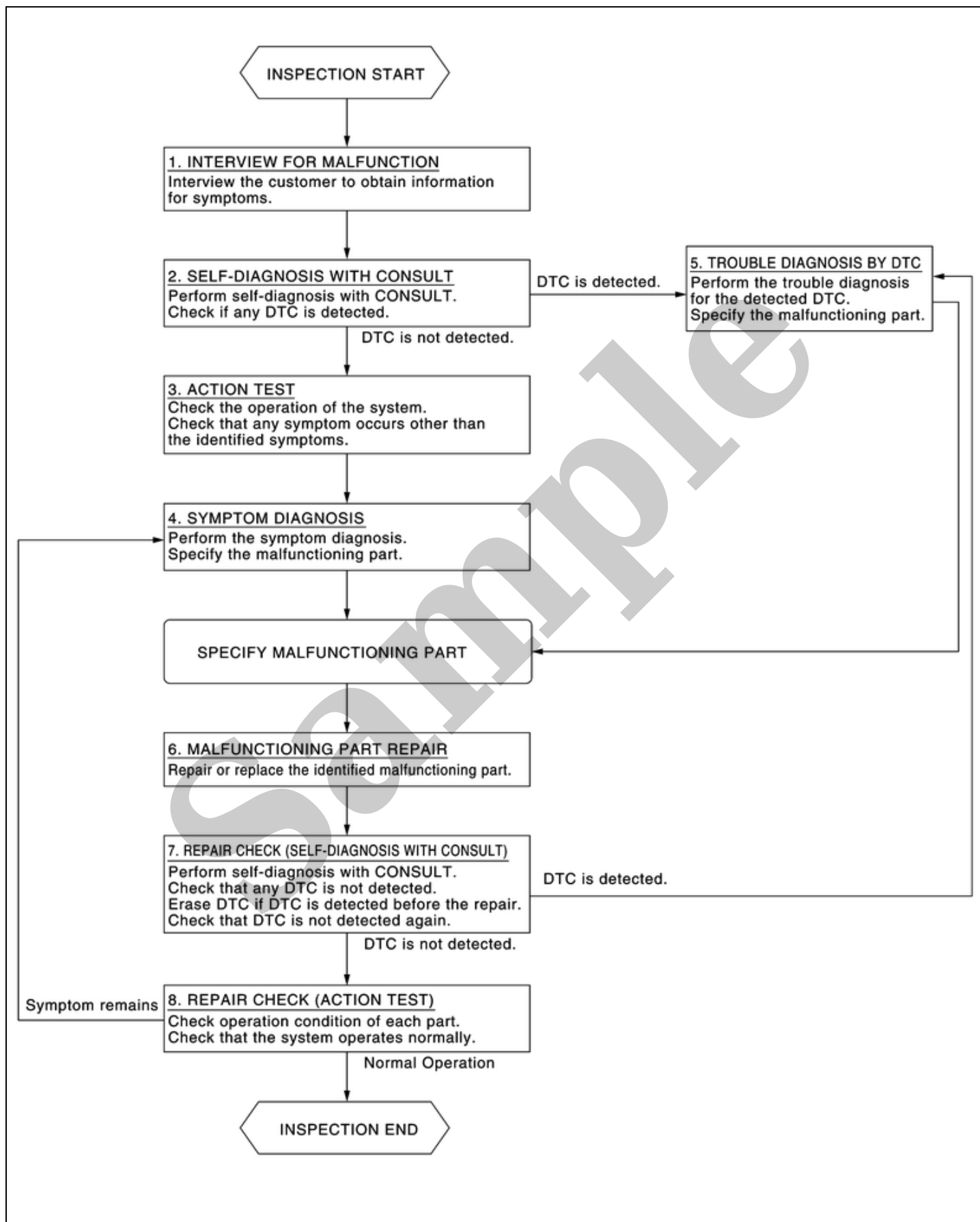
Is vehicle height appropriate?

YES>>

INSPECTION END

NO>>

Repair vehicle to appropriate height.

OVERALL SEQUENCE


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                    INSPECTION START

1. INTERVIEW FOR MALFUNCTION
Interview the customer to obtain information
for symptoms.

2. SELF-DIAGNOSIS WITH CONSULT      DTC is detected.    5. TROUBLE DIAGNOSIS BY DTC
Perform self-diagnosis with CONSULT.                    Perform the trouble diagnosis
Check if any DTC is detected.                           for the detected DTC.
                                                        Specify the malfunctioning part.
                 DTC is not detected.

3. ACTION TEST
Check the operation of the system.
Check that any symptom occurs other than
the identified symptoms.

4. SYMPTOM DIAGNOSIS
Perform the symptom diagnosis.
Specify the malfunctioning part.

SPECIFY MALFUNCTIONING PART

6. MALFUNCTIONING PART REPAIR
Repair or replace the identified malfunctioning part.

7. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)
Perform self-diagnosis with CONSULT.                    DTC is detected.
Check that any DTC is not detected.
Erase DTC if DTC is detected before the repair.
Check that DTC is not detected again.
                 DTC is not detected.

Symptom remains   8. REPAIR CHECK (ACTION TEST)
                  Check operation condition of each part.
                  Check that the system operates normally.
                 Normal Operation

                    INSPECTION END
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DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

It is important to clarify the customer's concerns before starting the inspection. Interview the customer about the concerns carefully and understand the symptoms fully.

> **NOTE:**
> **The customers are not professionals. Never assume that "maybe the customer means..." or "maybe the customer mentioned this symptom".**

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2. SELF-DIAGNOSIS WITH CONSULT

CONSULT

1. Perform "All DTC Reading" mode.

2. Check if the DTC is detected in the "Self Diagnostic Result" of the following:

   - "ICC/ADAS 2"

   - "LASER/RADAR"

   - "LANE CAMERA"

   - "Side radar (Rear left)"

   - "Side radar (Rear right)"

Is any DTC detected?

YES>>

Record or print self-diagnosis results and freeze frame data (FFD).

NO>>

3. ACTION TEST

1. Perform the system action test to check the operation status of the following:

   - LDW: Refer to Work Procedure.

   - I-LI: Refer to Work Procedure.

   - BSW: Refer to Work Procedure.

   - I-BSI: Refer to Work Procedure.

   - TSR: Refer to Work Procedure.

   - RCTA: Refer to Work Procedure.

   - I-DA: Refer to Work Procedure.

2. Check if any other malfunctions occur.

\>\>

4. SYMPTOM DIAGNOSIS

Perform the applicable diagnosis according to the diagnosis chart by symptom. Refer to <u>Symptom Table</u>.

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<u>GO TO 6.</u>

5. TROUBLE DIAGNOSIS BY DTC

CONSULT

1. Erase self-diagnostic results.

2. Power switch OFF → ON.

> **CAUTION:**
> **Be sure to wait of 10 seconds after turning power switch OFF or ON.**

3. Check the DTC in the "Self Diagnostic Result".

4. Perform trouble diagnosis for the following detected DTC:

   - "ICC/ADAS 2": Refer to <u>DTC Index</u>.

   - "LASER/RADAR": Refer to <u>DTC Index</u>.

   - "LANE CAMERA": Refer to <u>DTC Index</u>.

   - "Side radar (Rear left)": Refer to <u>DTC Index</u>.

   - "Side radar (Rear right)": Refer to <u>DTC Index</u>.

> **NOTE:**
> **If Network-DTC is detected, first diagnose the CAN communication system.**

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<u>GO TO 6.</u>

6. MALFUNCTIONING PART REPAIR

Repair or replace the identified malfunctioning parts.

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<u>GO TO 7.</u>

7. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

1. Erase "Self Diagnostic Result".

2. Perform "All DTC Reading" mode after repairing or replacing the specific items.

3. Check if any DTC is detected in self-diagnosis results of the following:

   - "ICC/ADAS 2"

   - "LASER/RADAR"

   - "LANE CAMERA"

   - "Side radar (Rear left)"

   - "Side radar (Rear right)"

Is any DTC detected?

YES>>

[GO TO 5.](#)

NO>>

[GO TO 8.](#)

8. REPAIR CHECK (ACTION TEST)

Perform the following system action test. Check that the malfunction symptom is solved or no other symptoms occur.

- LDW: Refer to [Work Procedure](#).

- I-LI: Refer to [Work Procedure](#).

- BSW: Refer to [Work Procedure](#).

- I-BSI: Refer to [Work Procedure](#).

- TSR: Refer to [Work Procedure](#).

- RCTA: Refer to [Work Procedure](#).

- I-DA: Refer to [Work Procedure](#).

Is there a malfunction symptom?

YES>>

[GO TO 4.](#)

NO>>

Inspection End.

Work Procedure

Vehicle specification needs to be written with CONSULT because it is not written after replacing the distance sensor.

The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the distance sensor.

> **NOTE:**
>
> For details the network connection and operation, refer to "CONSULT Operation Manual".
>
> The configuration no need to "save" configuration data from the distance sensor. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.

> **CAUTION:**
>
> - **Complete the procedure of "Configuration" in order.**
>
> - **If incorrect "Configuration", incidents might occur.**

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to distance sensor following "Automatic Configuration" procedure of "Configuration" according to CONSULT Operation Manual.

> **NOTE:**
>
> - **Log in the network according to CONSULT guidance.**
>
> - **For details the network connection and operation, refer to "CONSULT Operation Manual".**

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WORK END

Work Procedure

Vehicle specification needs to be written with CONSULT because it is not written after replacing the front camera unit.

The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the front camera unit.

NOTE:

For details the network connection and operation, refer to "CONSULT Operation Manual".

The configuration no need to "save" configuration data from the front camera unit. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.

CAUTION:

- **Complete the procedure of "Configuration" in order.**

- **If incorrect "Configuration", incidents might occur.**

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to front camera unit following "Automatic Configuration" procedure of "Configuration" according to CONSULT Operation Manual.

NOTE:

- **Log in the network according to CONSULT guidance.**

- **For details the network connection and operation, refer to "CONSULT Operation Manual".**

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WORK END

Always perform the side radar configuration after replacing the side radar.

1. SIDE RADAR CONFIGURATION

Perform the side radar configuration with CONSULT. Refer to <u>Work Procedure</u>.

\>>

<u>GO TO 2</u>.

2. SIDE RADAR ALIGNMENT

Perform the side radar alignment with CONSULT. Refer to <u>Work Procedure</u>.

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<u>GO TO 3.</u>

3. PERFORM SELF-DIAGNOSIS

Perform the self-diagnosis of side radar with CONSULT. Check if any DTC is detected.

<u>Is any DTC detected?</u>

YES>>

Perform the trouble diagnosis for the detected DTC.

- Side radar (Front left): Refer to <u>DTC Index</u>

- Side radar (Front right): Refer to <u>DTC Index</u>

- Side radar (Rear left): Refer to <u>DTC Index</u>

- Side radar (Rear right): Refer to <u>DTC Index</u>

NO>>

INSPECTION END