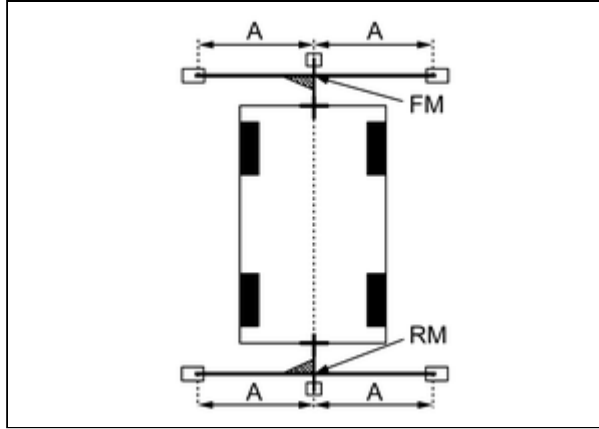


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

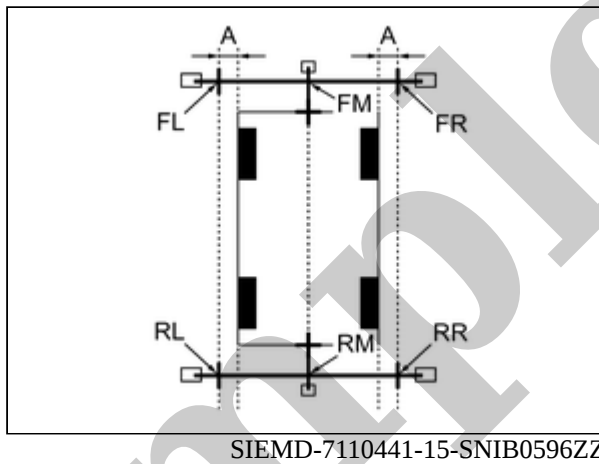
## 2016 NISSAN Pathfinder OEM Service and Repair Workshop Manual

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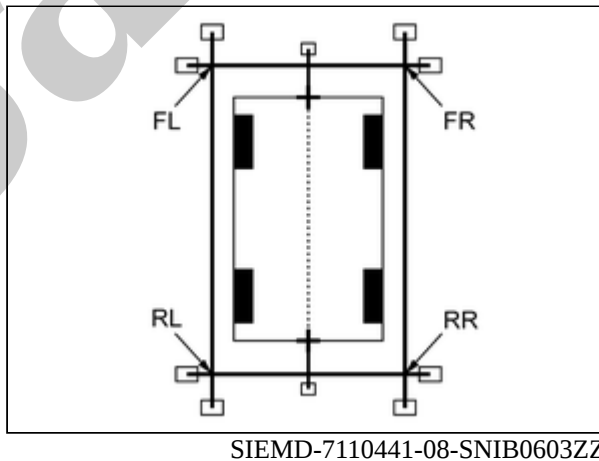
A	: Approx. 1.5 m (59.0 in)
---	---------------------------

5. Put the points FL, FR, RL, and RR (mark) to both right and left [vehicle width / 2 + 30 cm (11.8 in)] from the points FM and RM.

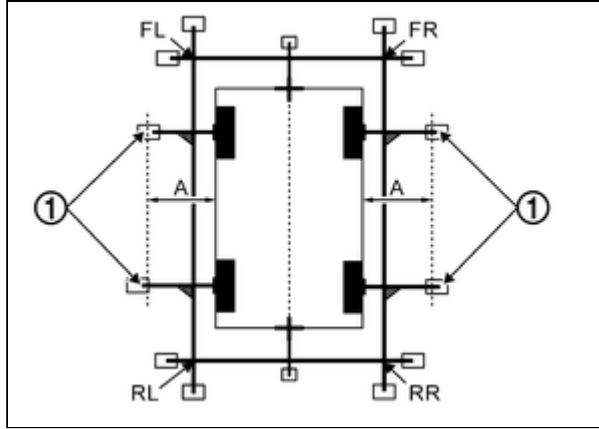


A	: Approx. 30 cm (11.8 in)
---	---------------------------

6. Draw the lines of the points FL – RL and FR – RR with vinyl string, and fix it with packing tape.



7. Put a mark on the center of each axle ①, draw vertical lines to the lines of the points FL – RL and FR – RR from the marks on the center of the axle using a triangle scale, and then fix the lines using packing tape.



SIEMD-7110441-09-SNIB0597ZZ

A	: Approx. 60 cm (23.6 in)
---	---------------------------

Is the “Incomplete calibration” display visible?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 5.](#)

## 4. PERFORM “CALIBRATING CAMERA IMAGE”

With CONSULT

1. Select “CALIBRATING CAMERA IMAGE” in “Work Support” mode of “AROUND VIEW MONITOR” using CONSULT.



**NOTE:**

In random order, perform the operation for all cameras for which un-match display appears.

- Front camera: “CALIBRATING CAMERA IMAGE (FRONT CAMERA)”
- Passenger side camera: “CALIBRATING CAMERA IMAGE (PASS-SIDE CAMERA)”
- Driver side camera: “CALIBRATING CAMERA IMAGE (DR-SIDE CAMERA)”
- Rear camera: “CALIBRATING CAMERA IMAGE (REAR CAMERA)”

2. Perform “CALIBRATING CAMERA IMAGE” as per the following procedure.

- On the adjustment screen of each camera, adjust the parameter by touching the “AXIS X”, “AXIS Y”, and “ROTATE” to place the calibration marker shown on the camera screen on the target line drawn on the ground.
- On the adjustment screen of each camera, operate “+” and “-” of “Magnify/Reduce”, so that images on screen of target line and calibration maker are aligned.

3. Touch “APPLY” on the CONSULT screen. “Writing...” is displayed and adjustment results are shown on the camera screen.

**CAUTION:**


Check that “Writing...” is displayed. Do never perform other operations while “Writing...” is displayed.

4. Touch “OK” on the CONSULT screen. “Writing...” is displayed and adjustment results are written to the around view monitor control unit

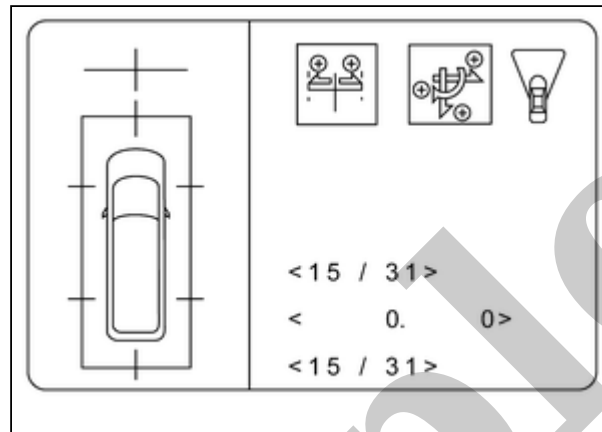
**CAUTION:**

Check that “Writing...” is displayed. Do never perform other operations while “Writing...” is displayed.

## 5. PERFORM “FINE TUNING OF BIRDS-EYE VIEW” (1)

 With CONSULT

1. Select “FINE TUNING OF BIRDS-EYE VIEW” in “Work Support” mode of “AROUND VIEW MONITOR” using CONSULT.
2. Perform “FINE TURNING OF BIRDS-EYE VIEW” as per the following procedure.



SIEMD-7110441-16-SNIB0615ZZ

**CAUTION:**

Perform adjustment operation slowly because approximately 1 second is required for changing image on screen.



**NOTE:**

Touch “SELECT” on CONSULT screen and select camera position for adjustment.

- Operate “+” and “-” of “AXIS X”, “AXIS Y”, and “ROTATE”, so that images on screen of target line on the ground and marker are aligned between each camera.
- Operate “+” and “-” of “Magnify/Reduce”, so that images on screen of target line on the ground and marker are aligned between each camera.

3. Touch “APPLY” on the CONSULT screen. “Writing...” is displayed and adjustment results are shown on the camera screen.

**CAUTION:**

Check that “Writing...” is displayed. Do never perform other operations while “Writing...” is displayed.

4. Touch “OK” on the CONSULT screen. “Writing...” is displayed and adjustment results are written to the around view monitor control unit.

**CAUTION:**

- Check that “Writing...” is displayed. Never perform other operations while “Writing...” is displayed.
- After touching the “OK”, never touch screen other than the “BACK”.



**NOTE:**

- It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.
- The adjustment value is cancelled in this mode by performing “Initialize Camera Image Calibration”.

Is the gap between the each camera image normal?

YES>>

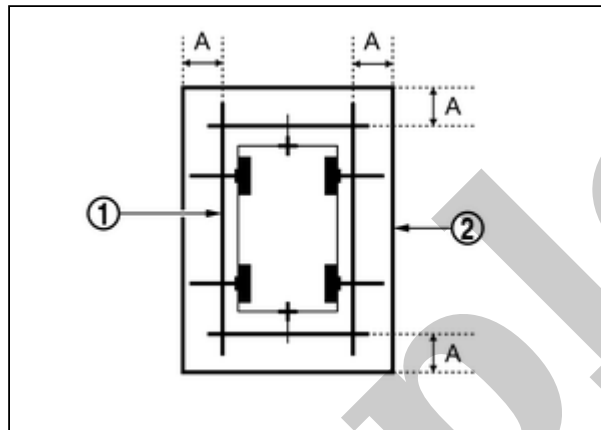
WORK END

NO>>

[GO TO 6.](#)

## 6. PREPARATION OF TARGET LINE 2

Draw target line 2 ② at the position of the approximately 1.0 m (39.9 in) outside from target line 1 ① which established by procedure 2.



SIEMD-7110441-03-SNIB0598ZZ

A	: Approx.1.0 m (39.9 in)
---	--------------------------



### NOTE:

The white lines far from the vehicle may not be aligned at the boundary of each camera image. The farther the line, the greater the difference is. can adjust it in detail by drawing a target line 2.

>>

[GO TO 7.](#)

## 7. “PERFORM “FINE TUNING OF BIRDS-EYE VIEW” (2)



### NOTE:

This adjustment merges the boundary line of each camera image which was not able to adjust by “FINE TUNING OF BIRDS-EYE VIEW” (1).

With CONSULT

1. Select “FINE TUNING OF BIRDS-EYE VIEW” in “Work Support” mode of “AROUND VIEW MONITOR” using CONSULT.
2. Perform “FINE TURNING OF BIRDS-EYE VIEW” as per the following procedure.

### CAUTION:

Perform adjustment operation slowly because approximately 1 second is required for changing image on screen.



### NOTE:

**Touch “SELECT” on CONSULT screen and select camera position for adjustment.**

- Confirm the gap of the boundary of target line 2 between the camera image and operate “+” and “-” of “AXIS X”, “AXIS Y”, “ROTATE” and “Magnify/Reduce”, and adjust the gap of the target line 2 boundary.
3. Touch “APPLY” on the CONSULT screen. “Writing...” is displayed and adjustment results are shown on the camera screen.

**CAUTION:**

**Check that “Writing...” is displayed. Never perform other operations while “Writing...” is displayed.**

4. Touch “OK” on the CONSULT screen. “Writing...” is displayed and adjustment results are written to the around view monitor control unit.

**CAUTION:**

- **Check that “Writing...” is displayed. Never perform other operations while “Writing...” is displayed.**
- **After touching the “OK”, never touch screen other than the “BACK”.**



**NOTE:**

- **It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration”.**
- **The adjustment value is cancelled in this mode by performing “Initialize Camera Image Calibration”.**

>>

WORK END

**CAUTION:**

- **When replacing the around view monitor control unit, always replace it with a new one. Intelligent around view monitor system does not operate properly in case of reuse of the around view monitor control unit from another vehicle.**
- **When before writing the around view monitor control unit configuration, always writing the MAC key.**

Perform the following operations when replacing around view monitor control unit. For details, refer to [Work Procedure](#).

## AFTER REPLACEMENT

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When after replacing around view monitor control unit, the following items must be performed. Or not doing so, intelligent around view monitor system does not operate normally.

- Writing MAC key
- Configuration
- Camera calibration

Sample

Perform the following procedures after replacing the around view monitor control unit.

## 1. REPLACE AROUND VIEW MONITOR CONTROL UNIT

---

Replace around view monitor control unit. Refer to [Removal and Installation](#).

>>

[GO TO 2.](#)

## 2. WRITING MAC KEY

---

 With CONSULT

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

>>

[GO TO 3.](#)

## 3. PERFORM CONFIGURATION

---

 With CONSULT

### CAUTION:

When before writing the around view monitor control unit configuration, always writing the MAC key.

Perform "Replace ECU".

>>

[GO TO 4.](#)

## 4. WRITING OF CALIBRATION DATA

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Write the calibration data stored in the camera using CONSULT. Refer to [Work Procedure](#).

>>

[GO TO 5.](#)

## 5. PERFORM SELF-DIAGNOSIS

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1. Perform the self-diagnosis of around view monitor control unit with CONSULT (AVM).
2. Check if any DTC is detected.

Is any DTC detected?

YES>>

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

NO>>

[GO TO 6.](#)

## 6. OPERATION CHECK

---



Confirm that the operation of the intelligent around view monitor and the camera image (reference line, expected route) are normal.

>>

WORK END

Sample

**NOTE:**

For Navigation system operation information, refer to Navigation system Owner's Manual.

**BASIC OPERATIONS**

Symptom	Possible cause	Possible solution
No image is displayed.	The brightness is at the lowest setting.	Adjust the brightness of the display.
	The systems in the video mode.	Press "DISC-AUX" to change the mode.
	The display is turned off.	Press "*/J" to turn on the display.
	The interior of the vehicle becomes the a little less than 80°C (176°F) or high temperature, and the protection of the display acts, and a display is turned off.	Wait until the interior of the vehicle has cooled down.
Screen not clear.	Contrast setting is not appropriate.	Adjust the contrast of the display.
No voice guidance is available. Or The volume is too high or too low.	The volume is not set correctly, or it is turned off.	Adjust the volume of voice guidance.
	Voice guidance is not provided for certain streets (roads displayed in gray).	This is not a malfunction.
No map is displayed on the screen.	A screen other than map screen is displayed.	Press "MAP".
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the navigation system.

**NOTE:**

Locations stored in the Address Book and other memory functions may be lost if the vehicle's battery is disconnected or becomes discharged. If this occurs, service the vehicle's battery as necessary and re-enter the information in the Address Book.