

## 2025 Toyota Truck RAV4 4WD L4-2.5L (A25A-FKS)

Vehicle > Accessories and Optional Equipment > Collision Avoidance and Parking Assist Systems >  
Testing and Inspection > Programming and Relearning

## PANORAMIC VIEW MONITOR SYSTEM (GASOLINE MODEL) - CALIBRATION [10/2022 - ]

### PARK ASSIST / MONITORING: PANORAMIC VIEW MONITOR SYSTEM (for Gasoline Model): CALIBRATION; 2023 - 2025 MY RAV4 [10/2022 - ]

#### 1. ADJUST PANORAMIC VIEW MONITOR SYSTEM

##### NOTICE:

- If any of the work in the following table has been performed, perform registration of the panoramic view monitor system.
- Work performed during servicing may require the registration and initialization of the panoramic view monitor system and other systems.
- Conduct the pre-work checks (Procedure 1) before performing screen adjustment.

Part Name	Operation	Adjustment Item	Proceed to
Parking assist ECU	Replacement	Import/Export constant value	<ul style="list-style-type: none"><li>◦ Procedure 9</li><li>◦ When ECU data writing completes normally, the following procedure is not necessary.</li><li>◦ When ECU data writing does not complete normally, perform the following procedure.</li></ul>
			Procedure 2
			Procedure 7
			Procedure 8
Suspension, tires, etc.	The vehicle height changes because of suspension or tire replacement	Parking assist ECU initialization	<ul style="list-style-type: none"><li>◦ Procedure 2</li><li>◦ Procedure 7</li><li>◦ Procedure 8</li></ul>

Part Name	Operation	Adjustment Item	Proceed to
◦ Front television camera assembly ◦ Front bumper assembly ◦ Radiator grille assembly	◦ Replacement ◦ Installation angle of the front television camera changes because of the removal and installation of the front television camera, etc.	Front television camera view adjustment	Procedure 2
			Procedure 3
			Procedure 8
Television camera assembly	◦ Replacement ◦ Installation angle of the television camera changes because of the removal and installation of the television camera, etc.	Television camera view adjustment	Procedure 2
			Procedure 4
			Procedure 8
◦ Side television camera assembly LH ◦ Outer rear view mirror assembly LH	◦ Replacement ◦ Installation angle of the side television camera changes because of the removal and installation of the side television camera, etc.	Side television camera view adjustment	Procedure 2
			Procedure 5
			Procedure 8
◦ Side television camera assembly RH ◦ Outer rear view mirror assembly RH	◦ Replacement ◦ Installation angle of the side television camera changes because of the removal and installation of the side television camera, etc.	Side television camera view adjustment	Procedure 2
			Procedure 6
			Procedure 8
◦ Front television camera assembly, radiator grille assembly or front bumper assembly ◦ Television camera assembly ◦ Side television camera assembly LH or outer rear view mirror assembly LH ◦ Side television camera assembly RH or outer rear view mirror assembly RH	Replacement or removal and installation of 2 or more parts	Television camera view adjustment	Procedure 2
			Procedure 7
			Procedure 8

## 2. PROCEDURE 1: PRE-WORK CHECKS

### a. Preliminary checks

**NOTICE:**

- Provide shadow to prevent backlight from hitting the camera.
- Use string that does not stretch.
- Apply pieces of adhesive tape to serve as check markers. When placing the markers, make them 100 mm (3.94 in.) wide.

1. Perform the work in a wide, level location. (Approximately 2000 mm [6.56 ft.] to the front, rear, left and right around the vehicle)
2. Park the vehicle on a flat surface with the steering wheel centered.

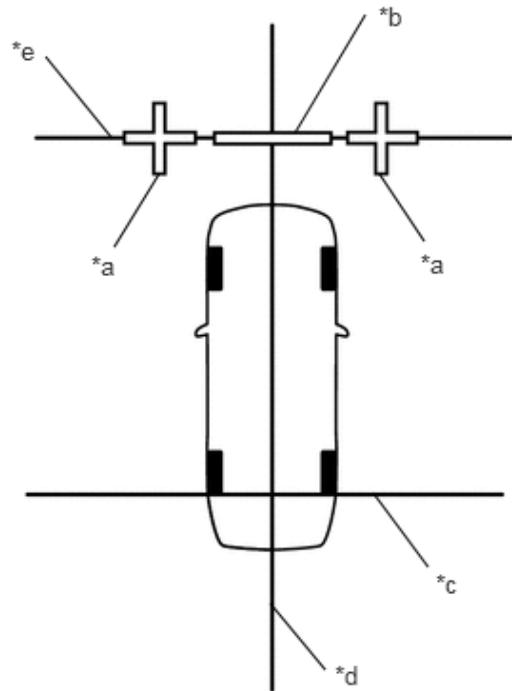
**NOTICE:**

**Before stopping the vehicle, move the vehicle backward and forward to ensure that both the steering wheel and the tires point straight ahead.**

3. Adjust the tire pressure to the specified value(s).
4. Remove all luggage from the vehicle and place the markers before starting work.

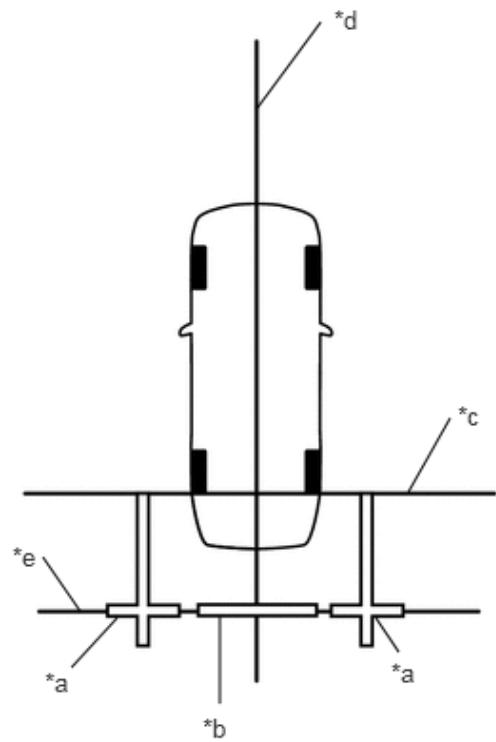
**b. Marker locations**

1. Secure the strings and markers to the location required to make the checks as shown in the illustration.
  - When adjusting front camera only



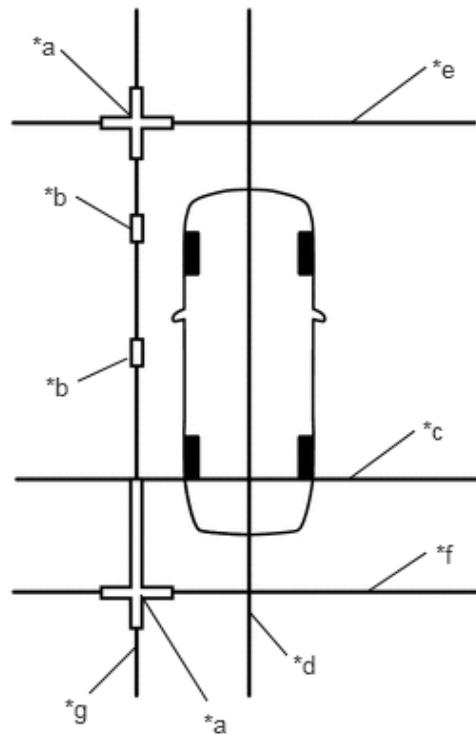
*a	Cross Check Marker
*b	Check Marker
*c	String 1
*d	String 2
*e	String 3

- When adjusting rear camera only

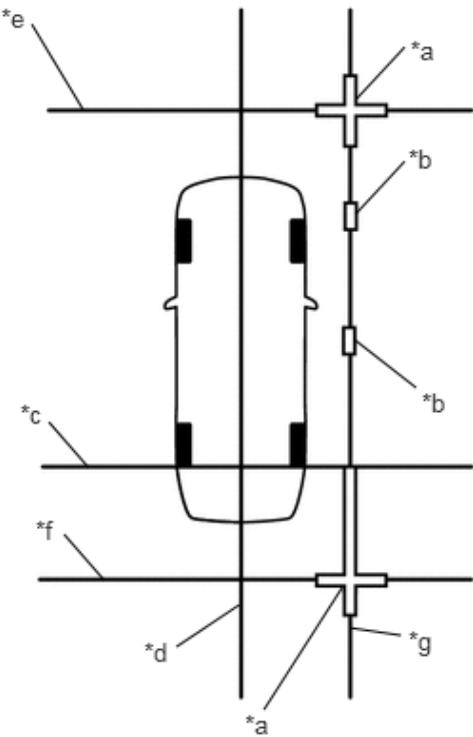


*a	Cross Check Marker
*b	Check Marker
*c	String 1
*d	String 2
*e	String 4

- When adjusting side camera LH only



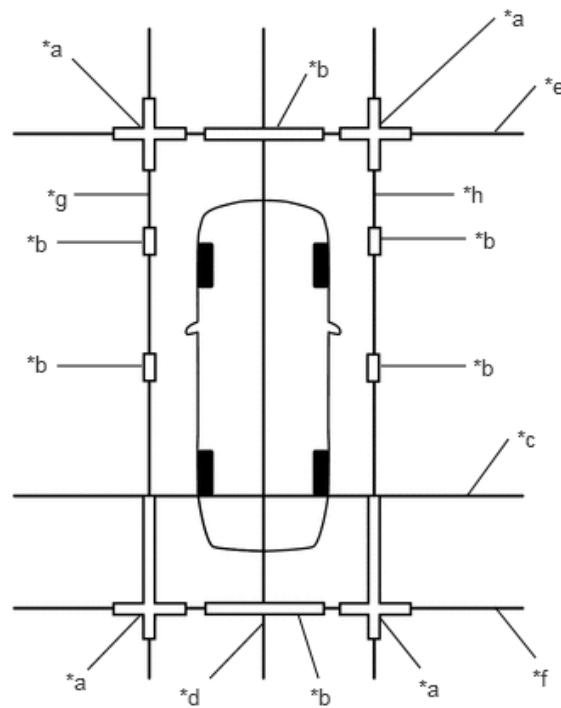
*a	Cross Check Marker
*b	Check Marker
*c	String 1
*d	String 2
*e	String 3
*f	String 4
*g	String 5



*a	Cross Check Marker
*b	Check Marker
*c	String 1
*d	String 2
*e	String 3
*f	String 4
*g	String 6

When adjusting side camera RH only

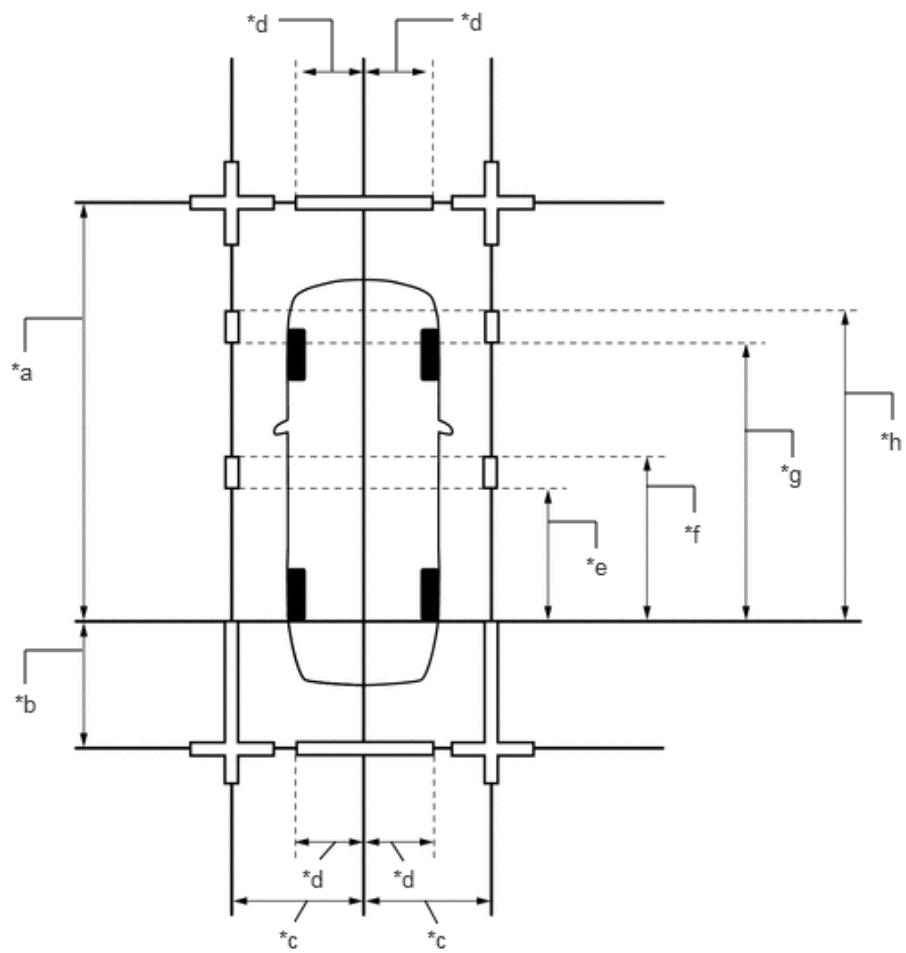
- When adjusting all cameras



*a	Cross Check Marker	*b	Check Marker
*c	String 1	*d	String 2
*e	String 3	*f	String 4
*g	String 5	*h	String 6

c. Marker positions

1. Set the target bars in the positions shown in the illustration.



*a	4800 mm (15.74 ft.)	*b	1300 mm (4.26 ft.)
*c	1600 mm (5.25 ft.)	*d	693 mm (2.27 ft.)
*e	1400 mm (4.59 ft.)	*f	1600 mm (5.25 ft.)
*g	3000 mm (9.84 ft.)	*h	3200 mm (10.5 ft.)

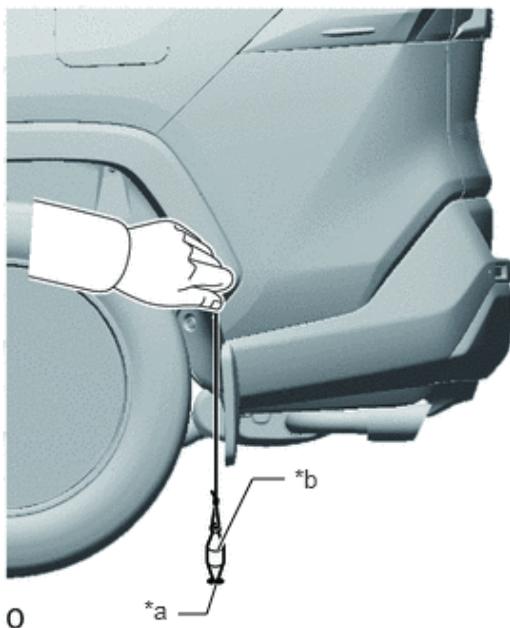
### 3. PROCEDURE 2: SET DATUM POINTS

a. Extend the datum line [string (1)].

1. Hang a weight with a pointed tip at the position shown in the illustration and accurately mark the center position on the road surface. (Mark A)

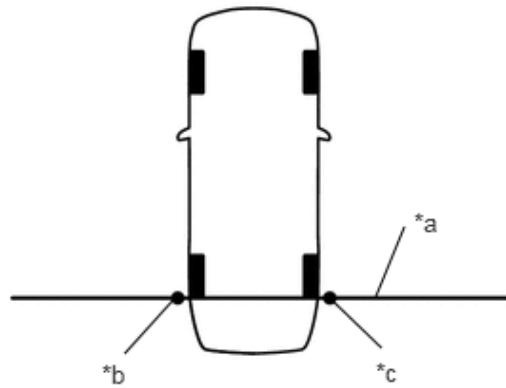
**NOTICE:**

**Observe the string to check that the weight hangs straight down.**



*a	Mark A
*b	Weight

2. Repeat the procedure to mark the right side. (Mark B)
3. Secure string (1) to pass through marks A and B at the left and right sides.



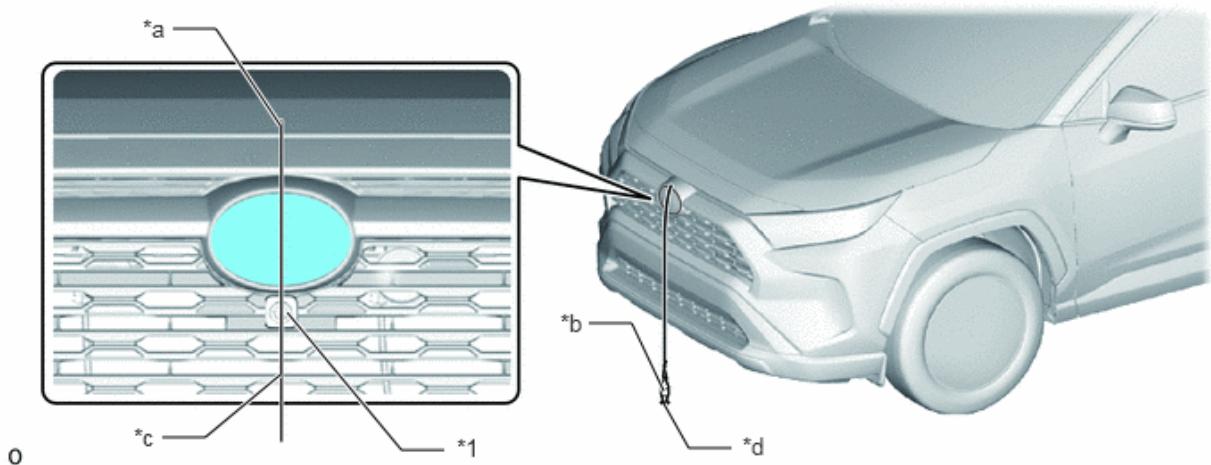
*a	String 1
*b	Mark A
*c	Mark B

**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**

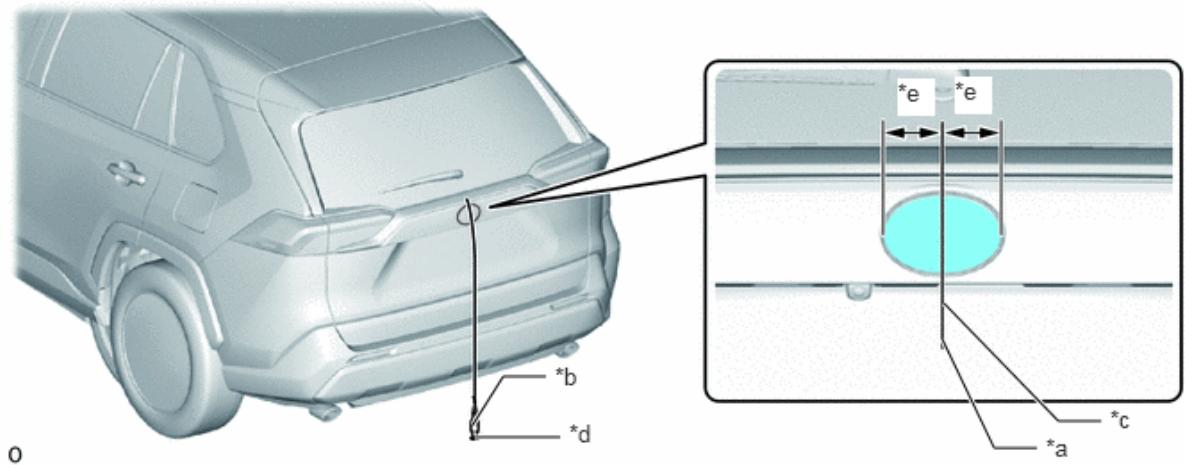
b. Extend the vehicle center line [string (2)].

1. Hang a weight with a pointed tip so that it passes through the center of the front television camera assembly and accurately mark the center position on the road surface. (Mark C)



*1	Front Television Camera Assembly	-	-
*a	Center Point	*b	Weight
*c	String	*d	Mark C

2. Hang a weight with a pointed tip so that it passes through the center of the rear emblem and accurately mark the center position on the road surface. (Mark D)



*a	Center	*b	Weight
*c	String	*d	Mark D
*e	Equal on both sides	-	-

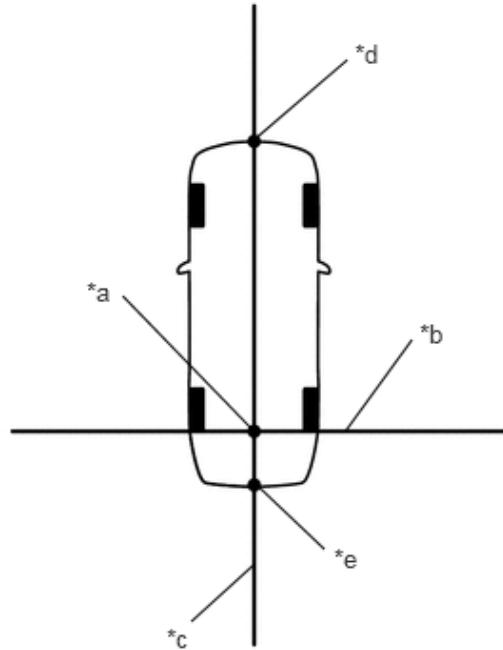
3. Secure string (2) to pass through marks C and D at the front and rear of the vehicle.

**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**

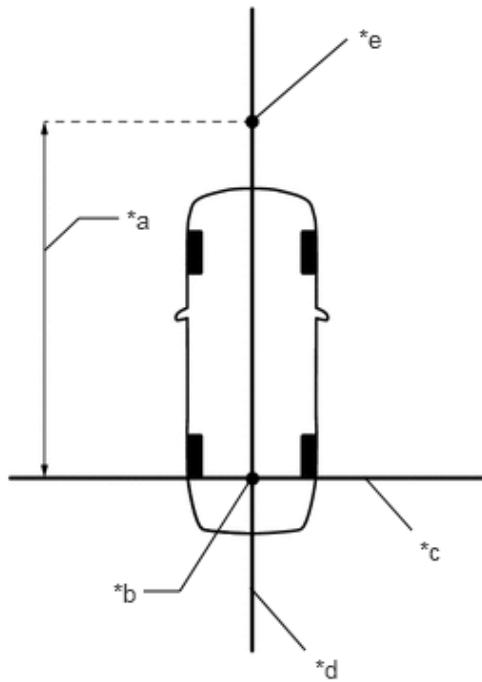
**HINT:**

**Set the point where strings 1 and 2 intersect as the datum point.**



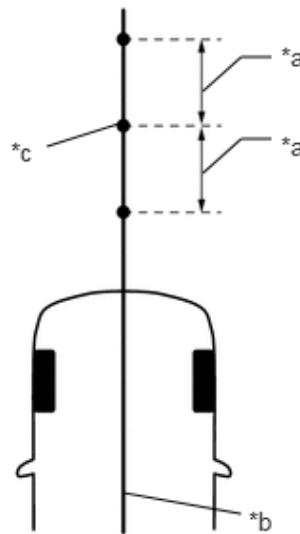
*a	Datum Point
*b	String 1
*c	String 2
*d	Mark C
*e	Mark D

#### 4. PROCEDURE 3: SET MARKERS (FRONT ADJUSTMENT)



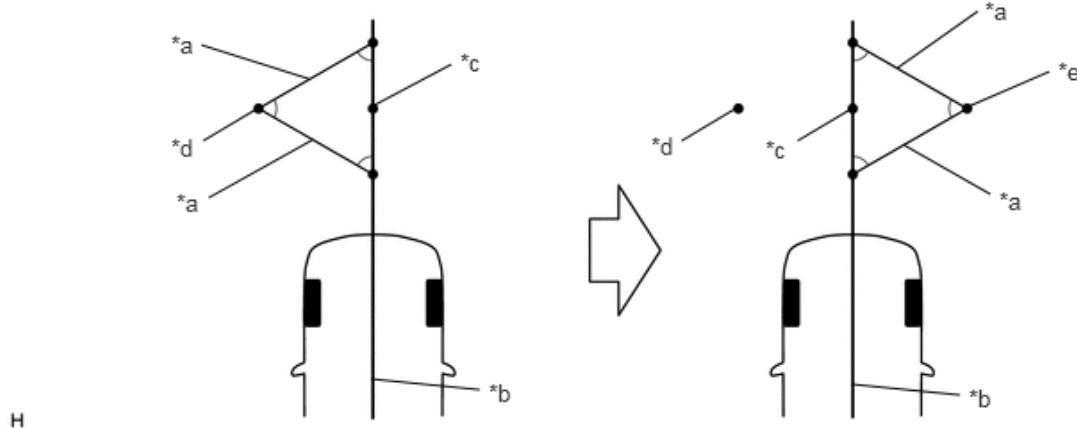
*a	4800 mm (15.74 ft.)
*b	Datum Point
*c	String 1
*d	String 2
*e	Mark E

- a. In front of the vehicle, extend string (3) perpendicular to the vehicle center line [string (2)], and place a marker.
1. Mark a position on string (2) in front of the vehicle, 4800 mm (15.74 ft.) from the datum point. (Mark E)
  2. Fix the ends of 2 strings (800 mm [2.62 ft.] long) at 2 positions 400 mm (1.31 ft.) from mark E as shown in the illustration.



*a	400 mm (1.31 ft.)
*b	String 2
*c	Mark E

3. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks F and G)

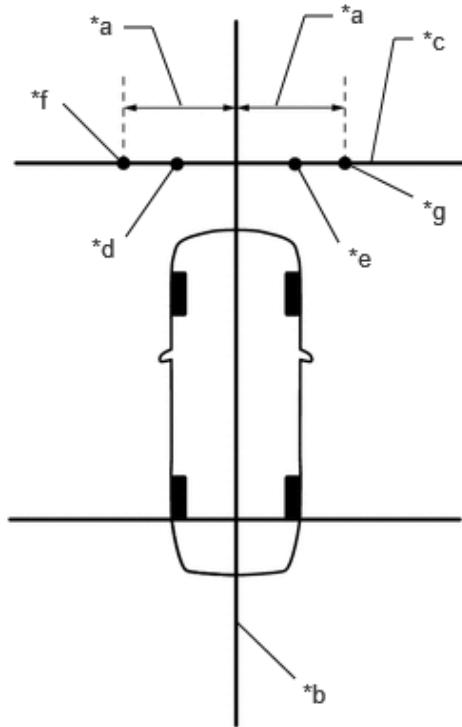


*a	800 mm (2.62 ft.) String	*b	String 2
*c	Mark E	*d	Mark F
*e	Mark G	-	-

4. Secure string (3) to pass through marks F and G as shown in the illustration.

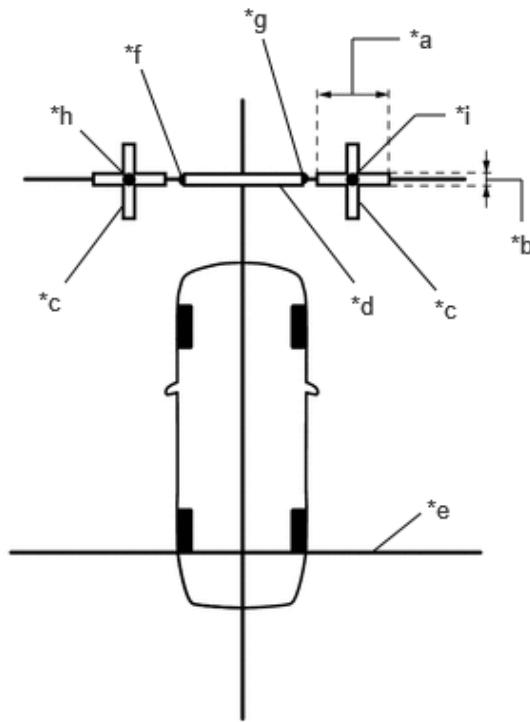
**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**



*a	1600 mm (5.25 ft.)
*b	String 2
*c	String 3
*d	Mark F
*e	Mark G
*f	Mark H
*g	Mark I

5. Make a mark on string (3), 1600 mm (5.25 ft.) to the left and right of the vehicle center line (string (2)). (Marks H and I)
6. Place and secure the cross target bars, centered on marks H and I as shown in the illustration.



*a	800 mm (2.62 ft.)
*b	100 mm (0.33 ft.)
*c	Cross Check Marker
*d	Check Marker
*e	String 1
*f	Mark F
*g	Mark G
*h	Mark H
*i	Mark I

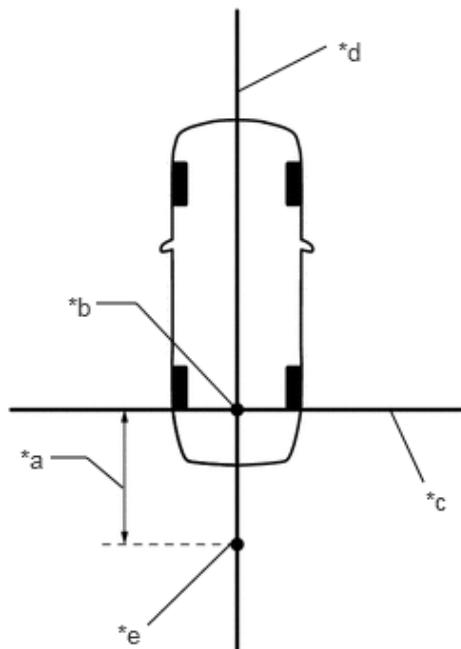
#### NOTICE:

- Place the cross check markers perpendicular to the string.
- Make each arm of the cross check markers 800 mm (2.62 ft.) long and 100 mm (0.33 ft.) wide.

7. Place the target bar between marks F and G.
8. Perform the adjust screen (procedure 8).

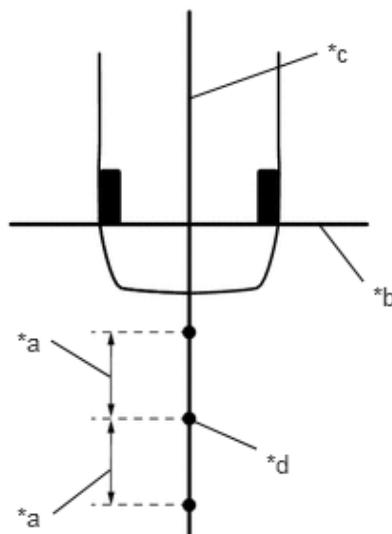
#### 5. PROCEDURE 4: SET MARKERS (REAR ADJUSTMENT)

- a. To the rear of the vehicle, extend string (4) perpendicular to the vehicle center line [string (2)], and place a check marker.
  1. Mark a position on string (2) to the rear of the vehicle, 1300 mm (4.26 ft.) from the datum point. (Mark J)



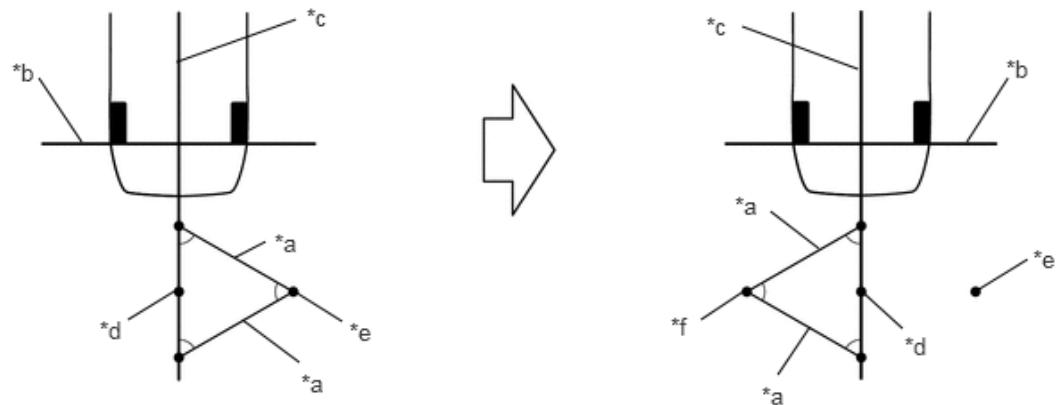
*a	1300 mm (4.26 ft.)
*b	Datum Point
*c	String 1
*d	String 2
*e	Mark J

2. Fix the ends of two 800 mm (2.62 ft.) strings at two positions 400 mm (1.31 ft.) from mark J as shown in the illustration.



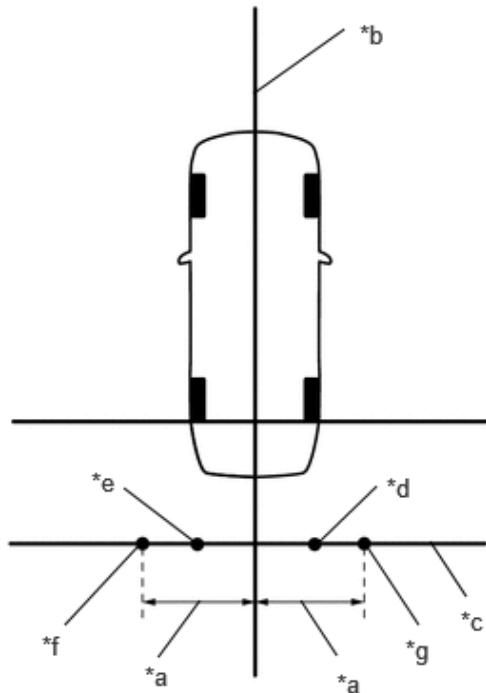
*a	400 mm (1.31 ft.)
*b	String 1
*c	String 2
*d	Mark J

3. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks K and L)



*a	800 mm (2.62 ft.) String	*b	String 1
*c	String 2	*d	Mark J
*e	Mark K	*f	Mark L

4. Secure string (4) to pass through marks K and L as shown in the illustration.

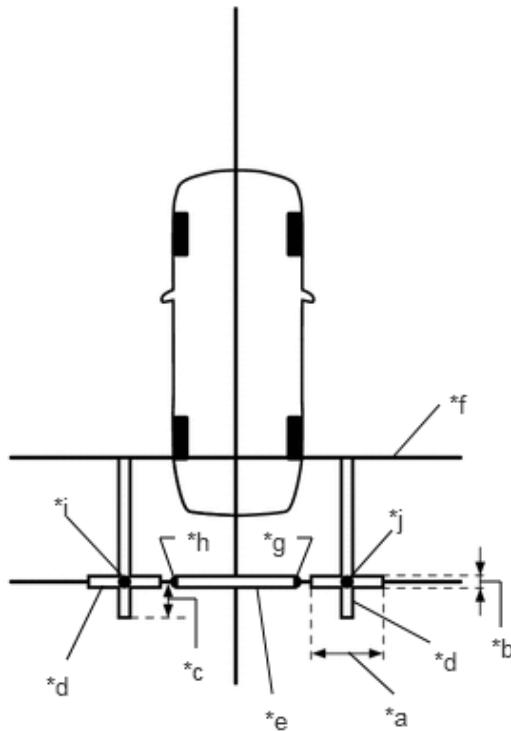


*a	1600 mm (5.25 ft.)
*b	String 2
*c	String 4
*d	Mark K
*e	Mark L
*f	Mark M
*g	Mark N

### NOTICE:

**When securing the string, check that there is no slack and the string is not twisted.**

5. Make a mark on string (4), 1600 mm (5.25 ft.) to the left and right of the vehicle center line [string (2)].
6. Place and secure the cross target bars, centered on marks M and N as shown in the illustration.



*a	800 mm (2.62 ft.)
*b	100 mm (0.33 ft.)
*c	400 mm (1.31 ft.)
*d	Cross Check Marker
*e	Check Marker
*f	String 1
*g	Mark K
*h	Mark L
*i	Mark M
*j	Mark N

### NOTICE:

- Place the cross check markers perpendicular to the string.
- Make each arm of the cross check markers 800 mm (2.62 ft.) long and 100 mm (0.33 ft.) wide.
- Extend the rear cross target bars to string (1) as shown in the illustration.

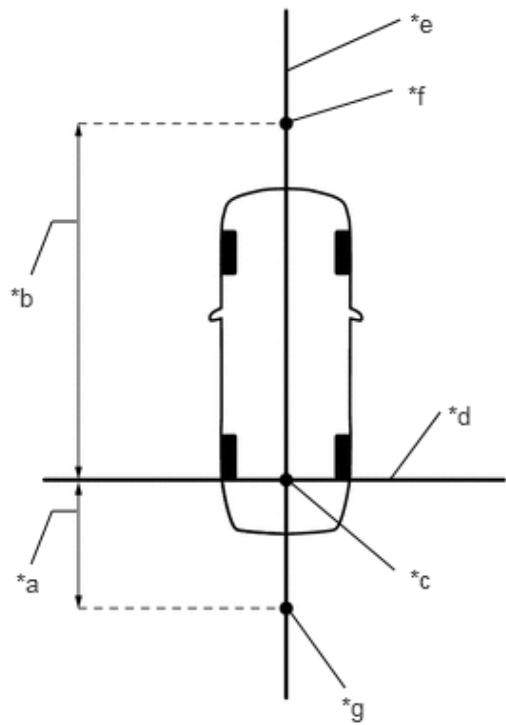
7. Place the target bar between marks K and L.

8. Perform the adjust screen (procedure 8).

### 6. PROCEDURE 5: SET MARKERS (LEFT-SIDE ADJUSTMENT)

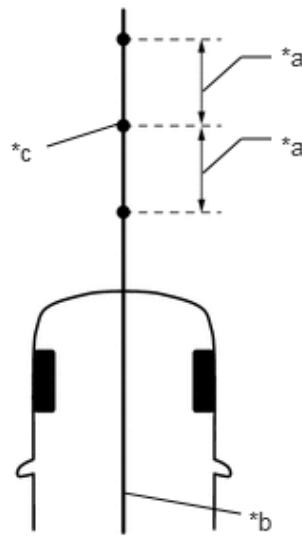
- a. At the left side of the vehicle, extend [string (5)] parallel to the vehicle center line [string (2)], and place a marker.

1. Mark a position on string (2) in front of the vehicle, 4800 mm (15.7 ft.) from the datum point. (Mark E)



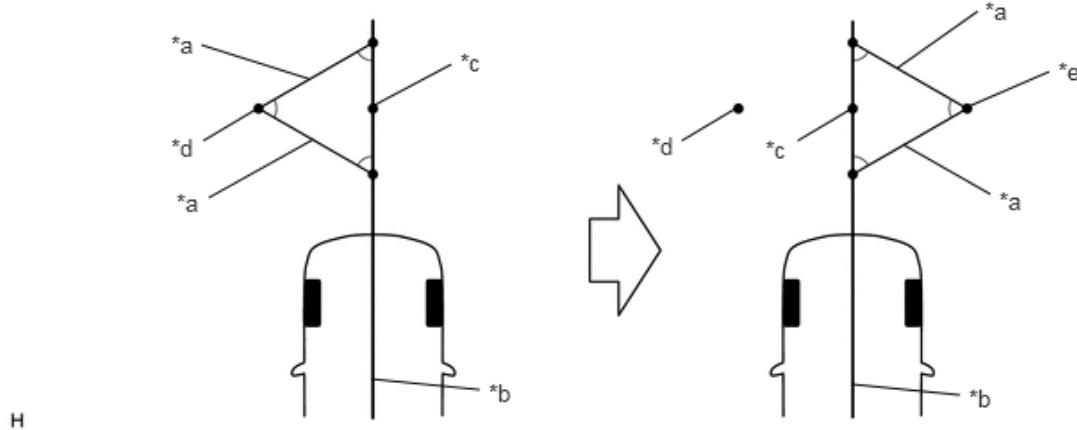
*a	1300 mm (4.26 ft.)
*b	4800 mm (15.74 ft.)
*c	Datum Point
*d	String 1
*e	String 2
*f	Mark E
*g	Mark J

2. Mark a position on string (2) to the rear of the vehicle, 1300 mm (4.26 ft.) from the datum point. (Mark J)
3. Fix the ends of 2 strings (800 mm [2.62 ft.] long) at 2 positions 400 mm (1.31 ft.) from mark E as shown in the illustration.



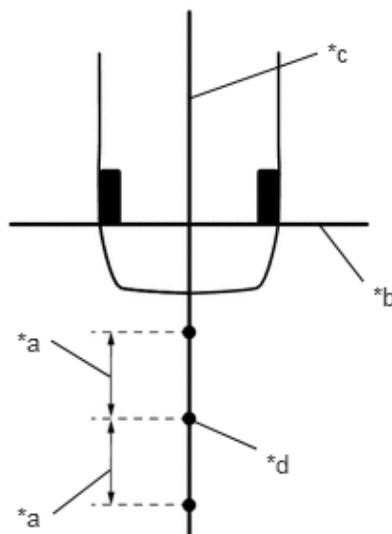
*a	400 mm (1.31 ft.)
*b	String 2
*c	Mark E

4. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks F and G)



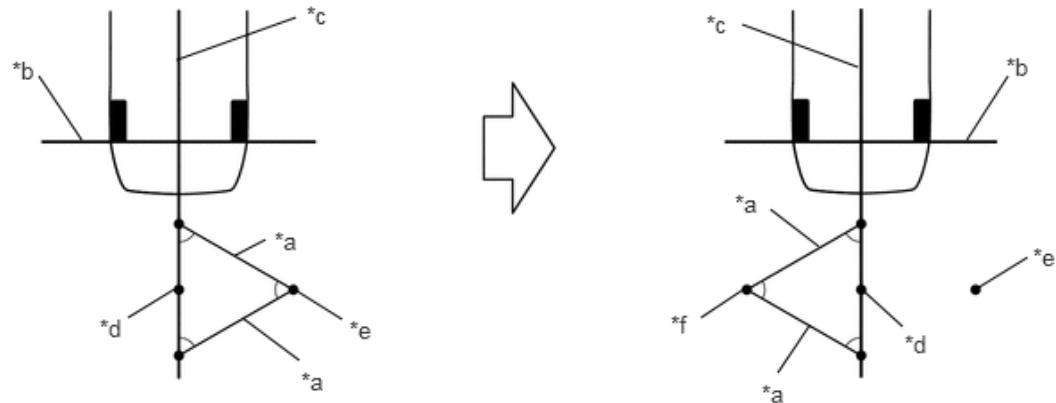
*a	800 mm (2.62 ft.) String	*b	String 2
*c	Mark E	*d	Mark F
*e	Mark G	-	-

5. Fix the ends of two 800 mm (2.62 ft.) strings at two positions 400 mm (1.31 ft.) from mark J as shown in the illustration.



*a	400 mm (1.31 ft.)
*b	String 1
*c	String 2
*d	Mark J

6. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks K and L)

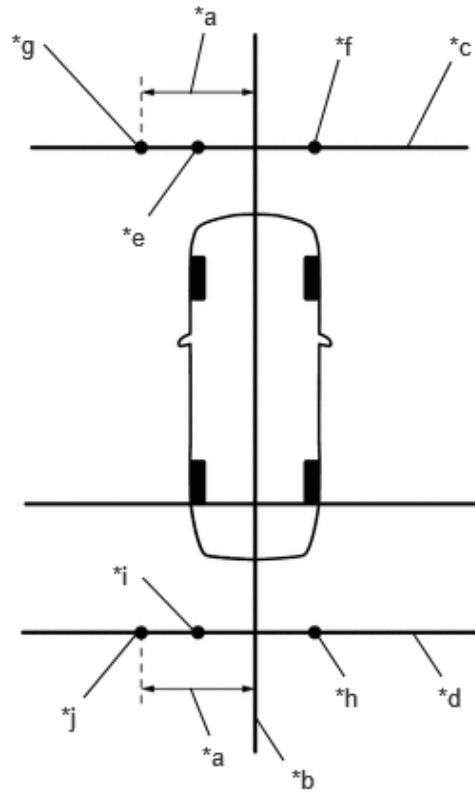


*a	800 mm (2.62 ft.) String	*b	String 1
*c	String 2	*d	Mark J
*e	Mark K	*f	Mark L

7. Secure strings (3) and (4) to pass through marks F and G and marks K and L, respectively as shown in the illustration.

**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**

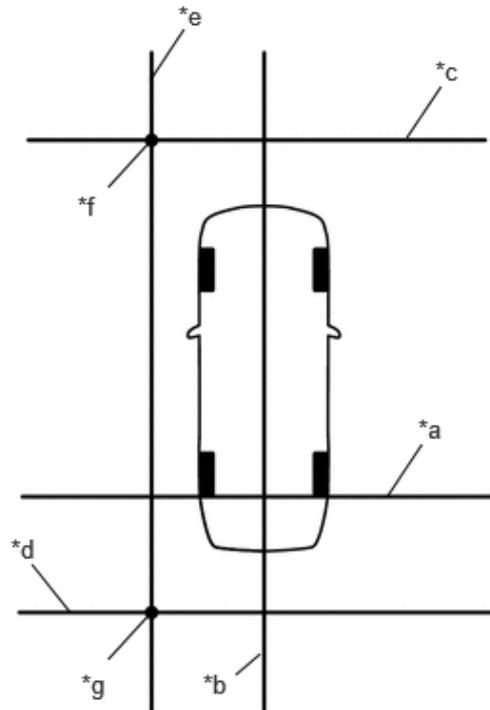


*a	1600 mm (5.25 ft.)
*b	String 2
*c	String 3
*d	String 4
*e	Mark F
*f	Mark G
*g	Mark H
*h	Mark K
*i	Mark L
*j	Mark M

8. Mark strings 3 and 4, 1600 mm (5.25 ft.) to the left of the vehicle center line (string 2). (Marks H and M)
9. Secure string (5) to pass through marks H and M as shown in the illustration.

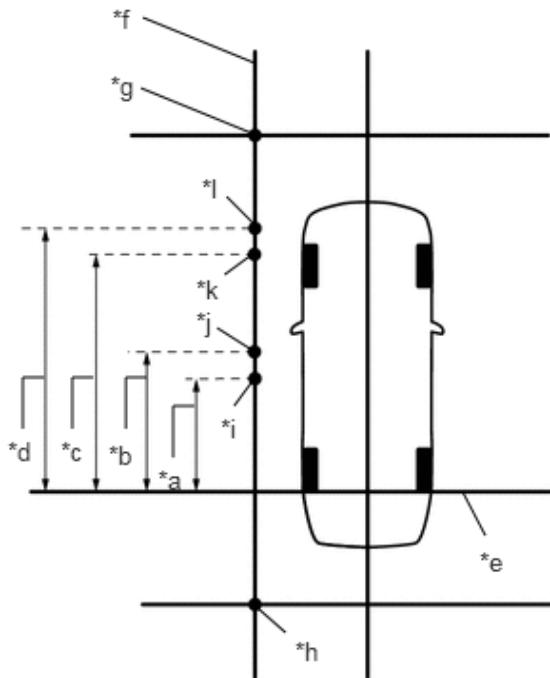
**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**



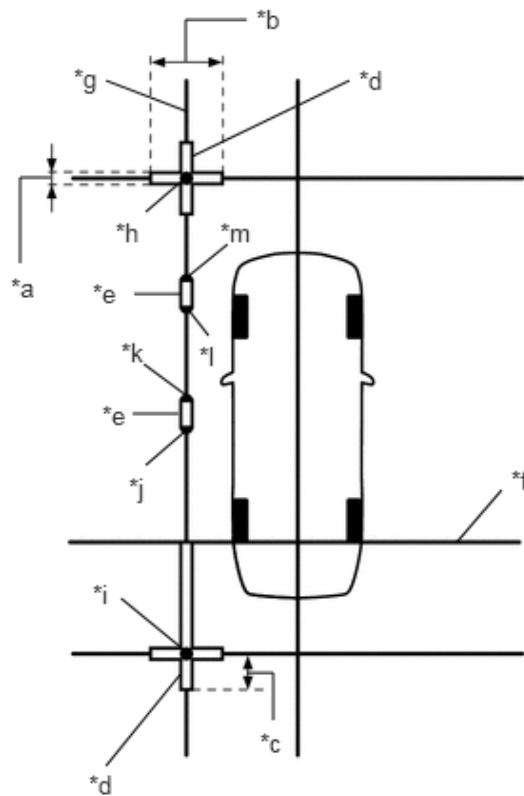
*a	String 1
*b	String 2
*c	String 3
*d	String 4
*e	String 5
*f	Mark H
*g	Mark M

10. Make marks on string 5 that are 1400 mm (4.59 ft.), 1600 mm (5.25 ft.), 3000 mm (9.84 ft.) and 3200 mm (10.5 ft.) from the datum line (string 1) as shown in the illustration. (Marks O, P, Q and R)



*a	1400 mm (4.59 ft.)
*b	1600 mm (5.25 ft.)
*c	3000 mm (9.84 ft.)
*d	3200 mm (10.5 ft.)
*e	String 1
*f	String 5
*g	Mark H
*h	Mark M
*i	Mark O
*j	Mark P
*k	Mark Q
*l	Mark R

11. Place and secure the cross target bars, centered on marks H and M as shown in the illustration.



*a	100 mm (0.33 ft.)
*b	800 mm (2.62 ft.)
*c	400 mm (1.31 ft.)
*d	Cross Check Marker
*e	Check Marker
*f	String 1
*g	String 5
*h	Mark H
*i	Mark M
*j	Mark O
*k	Mark P
*l	Mark Q
*m	Mark R

### NOTICE:

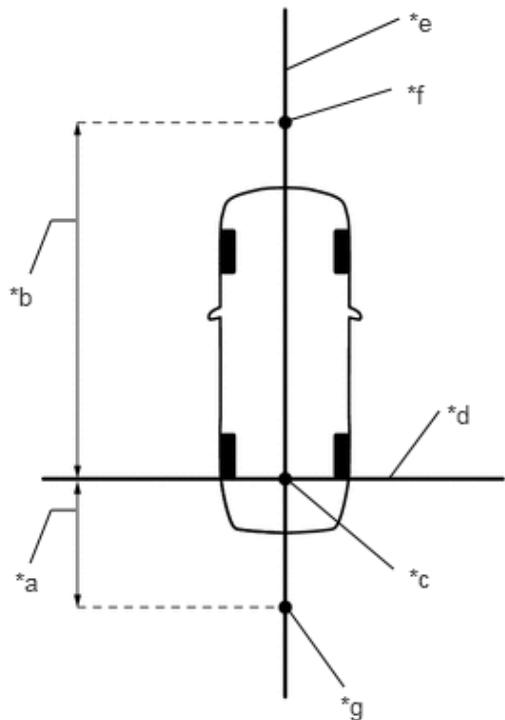
- Place the cross check markers perpendicular to the string.
- Make each arm of the cross check markers 800 mm (2.62 ft.) long and 100 mm (0.33 ft.) wide.
- Extend the rear cross target bars to string (1) as shown in the illustration.

12. Place target bar between marks O and P and marks Q and R.

13. Perform the adjust screen (procedure 8).

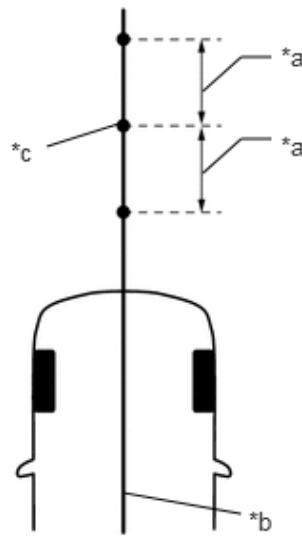
## 7. PROCEDURE 6: SET MARKERS (RIGHT-SIDE ADJUSTMENT)

- At the right side of the vehicle, extend [string (6)] parallel to the vehicle center line [string (2)], and place a marker.
- Mark a position on string (2) in front of the vehicle, 4800 mm (15.74 ft.) from the datum point. (Mark E)



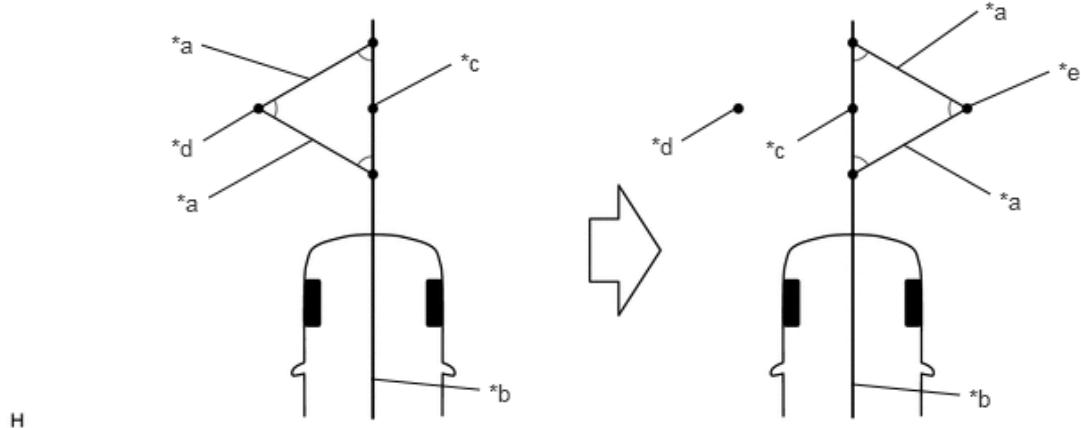
*a	1300 mm (4.26 ft.)
*b	4800 mm (15.74 ft.)
*c	Datum Point
*d	String 1
*e	String 2
*f	Mark E
*g	Mark J

- Mark a position on string (2) to the rear of the vehicle, 1300 mm (4.26 ft.) from the datum point. (Mark J)
- Fix the ends of 2 strings (800 mm [2.62 ft.] long) at 2 positions 400 mm (1 .31 ft.) from mark E as shown in the illustration.



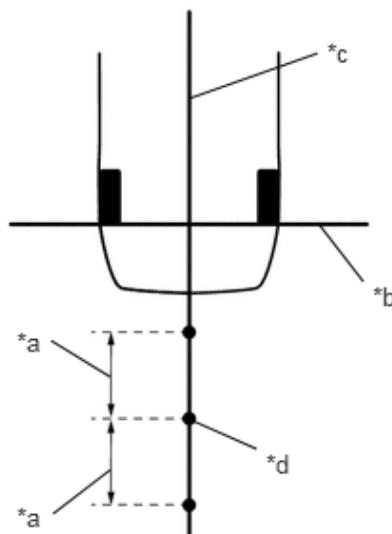
*a	400 mm (1.31 ft.)
*b	String 2
*c	Mark E

4. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks F and G)



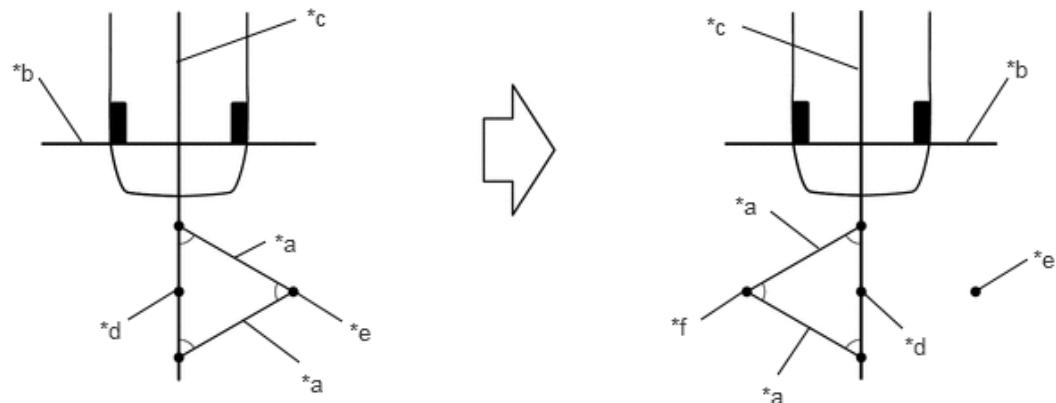
*a	800 mm (2.62 ft.) String	*b	String 2
*c	Mark E	*d	Mark F
*e	Mark G	-	-

5. Fix the ends of two 800 mm (2.62 ft.) strings at two positions 400 mm (1.31 ft.) from mark J as shown in the illustration.



*a	400 mm (1.31 ft.)
*b	String 1
*c	String 2
*d	Mark J

6. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks K and L)

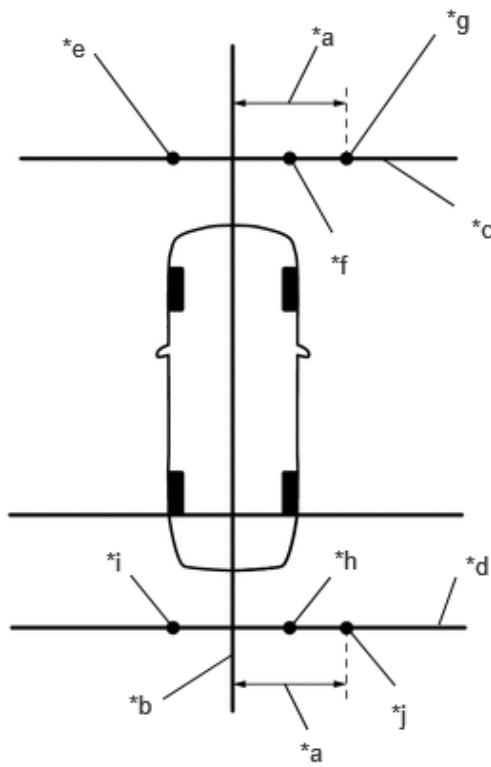


*a	800 mm (2.62 ft.) String	*b	String 1
*c	String 2	*d	Mark J
*e	Mark K	*f	Mark L

7. Secure strings (3) and (4) to pass through marks F and G and marks K and L, respectively as shown in the illustration.

**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**

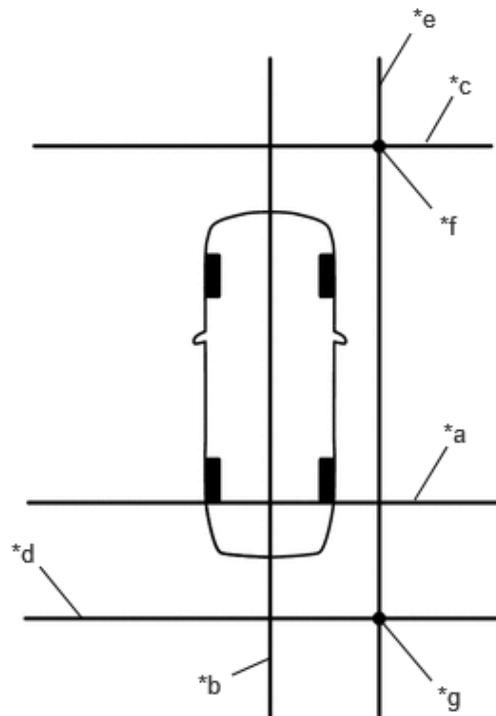


*a	1600 mm (5.25 ft.)
*b	String 2
*c	String 3
*d	String 4
*e	Mark F
*f	Mark G
*g	Mark I
*h	Mark K
*i	Mark L
*j	Mark N

8. Mark positions on strings 3 and 4, 1600 mm (5.25 ft.) to the right of the vehicle center line (string 2). (Marks I and N)
9. Secure string (6) to pass through marks I and N as shown in the illustration.

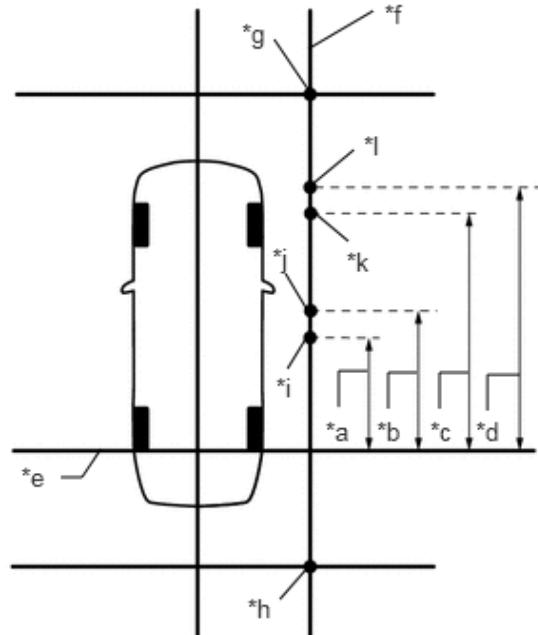
**NOTICE:**

**When securing the string, check that there is no slack and the string is not twisted.**



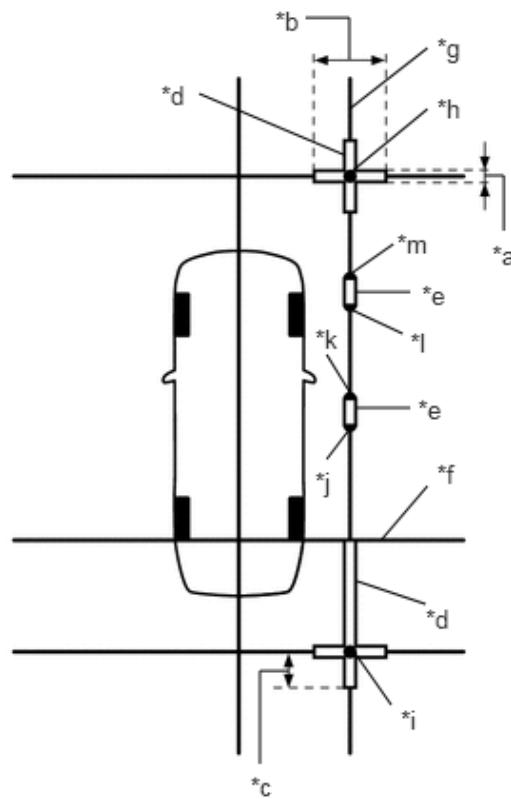
*a	String 1
*b	String 2
*c	String 3
*d	String 4
*e	String 6
*f	Mark I
*g	Mark N

10. Make marks on string 6 that are 1400 mm (4.59 ft.), 1600 mm (5.25 ft.), 3000 mm (9.84 ft.), and 3200 mm (10.5 ft.) from the datum line (string 1) as shown in the illustration. (Marks S, T, U and V)



*a	1400 mm (4.59 ft.)
*b	1600 mm (5.25 ft.)
*c	3000 mm (9.84 ft.)
*d	3200 mm (10.5 ft.)
*e	String 1
*f	String 6
*g	Mark I
*h	Mark N
*i	Mark S
*j	Mark T
*k	Mark U
*l	Mark V

11. Place and secure the cross target bars centered on marks I and N as shown in the illustration.



*a	100 mm (0.33 ft.)
*b	800 mm (2.62 ft.)
*c	400 mm (1.31 ft.)
*d	Cross Check Marker
*e	Check Marker
*f	String 1
*g	String 6
*h	Mark I
*i	Mark N
*j	Mark S
*k	Mark T
*l	Mark U
*m	Mark V

### NOTICE:

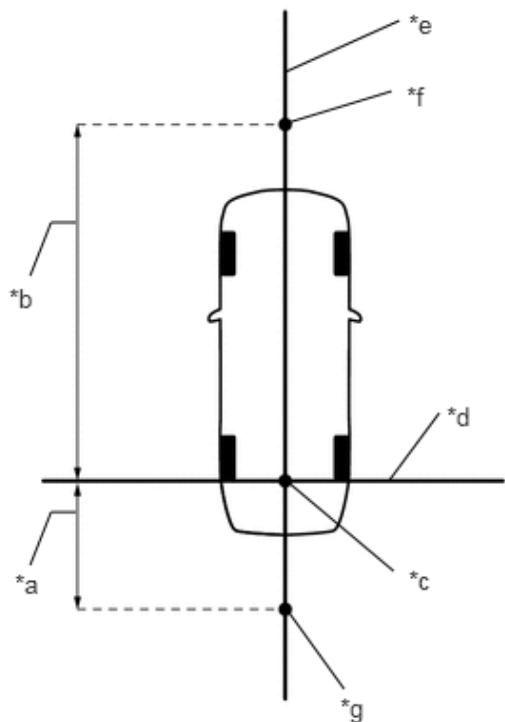
- Place the cross check markers perpendicular to the string.
- Make each arm of the cross check markers 800 mm (2.62 ft.) long and 100 mm (0.33 ft.) wide.
- Extend the rear cross target bars to string (1) as shown in the illustration.

12. Place the check markers between marks S and T, and marks U and V.

13. Perform the adjust screen (procedure 8).

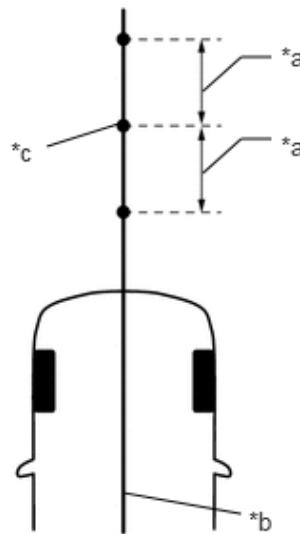
## 8. PROCEDURE 7: SET MARKERS (ADJUSTMENT OF ALL CAMERAS)

- a. At the right and left sides of the vehicle, extend strings (5) and (6) parallel to the vehicle center line [string (2)], and place markers.



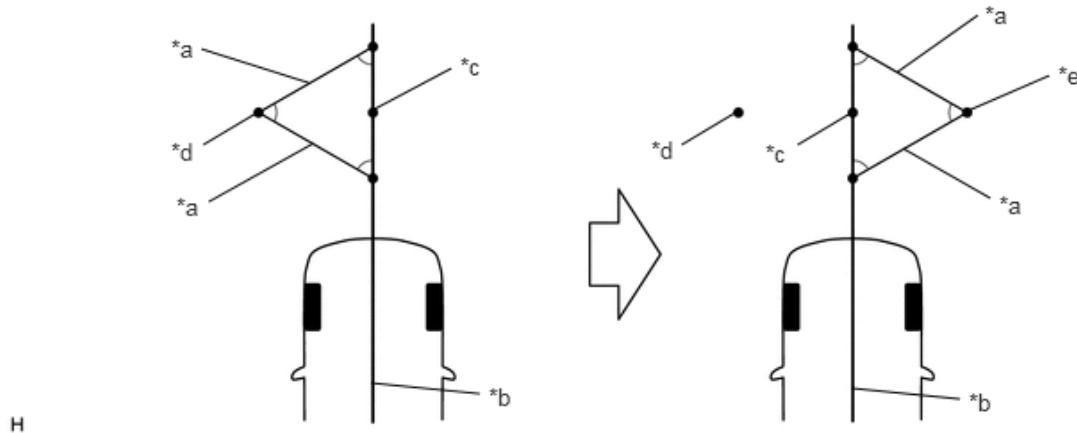
*a	1300 mm (4.26 ft.)
*b	4800 mm (15.74 ft.)
*c	Datum Point
*d	String 1
*e	String 2
*f	Mark E
*g	Mark J

1. Mark a position on string (2) in front of the vehicle, 4800 mm (15.74 ft.) from the datum point. (Mark E)
2. Mark a position on string (2) to the rear of the vehicle, 1300 mm (4.26 ft.) from the datum point. (Mark J)

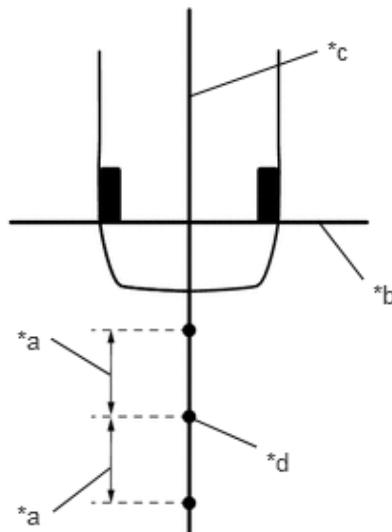


*a	400 mm (1.31 ft.)
*b	String 2
*c	Mark E

3. Fix the ends of 2 strings (800 mm [2.62 ft.] long) at 2 positions 400 mm (1.31 ft.) from mark E as shown in the illustration.
4. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks F and G)

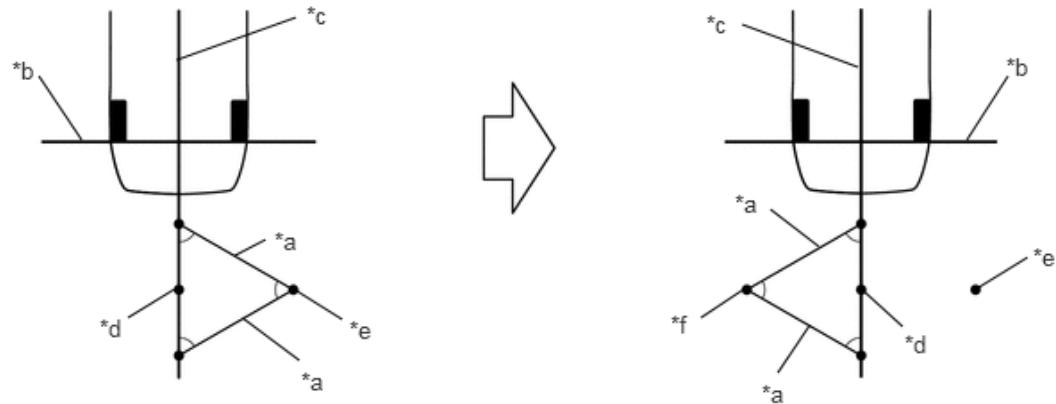


*a	800 mm (2.62 ft.) String	*b	String 2
*c	Mark E	*d	Mark F
*e	Mark G	-	-



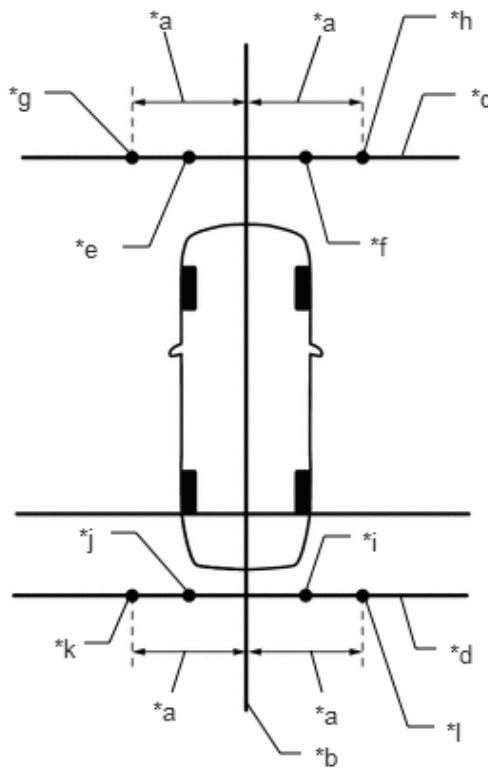
*a	400 mm (1.31 ft.)
*b	String 1
*c	String 2
*d	Mark J

5. Fix the ends of two 800 mm (2.62 ft.) strings at two positions 400 mm (1.31 ft.) from mark J as shown in the illustration.  
 6. Move the free ends of the 2 strings and mark the point where the ends meet. (Marks K and L)



*a	800 mm (2.62 ft.) String	*b	String 1
*c	String 2	*d	Mark J
*e	Mark K	*f	Mark L

7. Secure strings (3) and (4) to pass through marks F and G and marks K and L, respectively as shown in the illustration.



*a	1600 mm (5.25 ft.)
*b	String 2
*c	String 3
*d	String 4
*e	Mark F
*f	Mark G
*g	Mark H
*h	Mark I
*i	Mark K
*j	Mark L
*k	Mark M
*l	Mark N

### NOTICE:

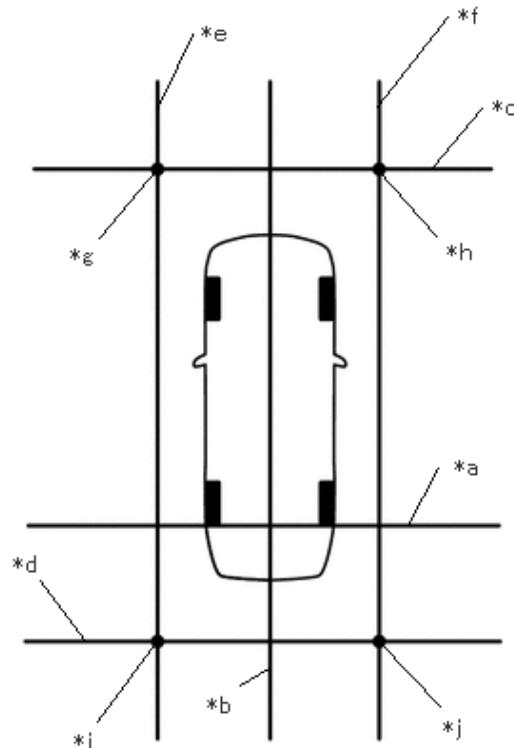
When securing the string, check that there is no slack and the string is not twisted.

8. Make a mark on string (3), 1600 mm (5.25 ft.) to the left and right of the vehicle center line [string (2)]. (Marks H and I)

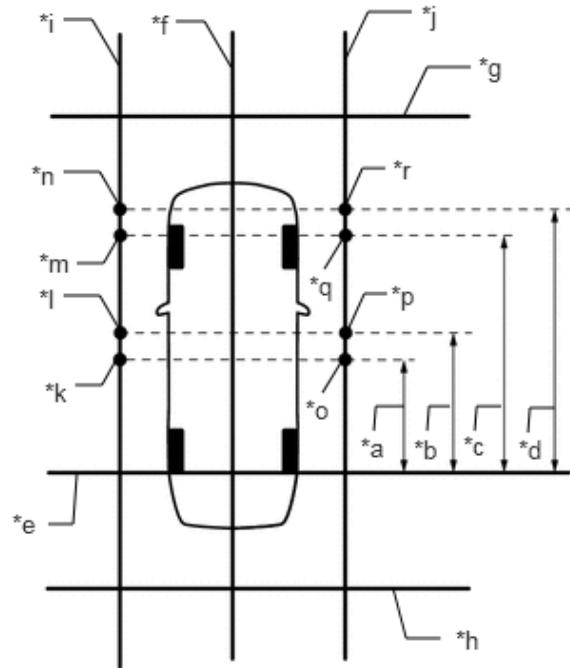
9. Make a mark on string (4), 1600 mm (5.25 ft.) to the left and right of the vehicle center line [string (2)]. (Marks M and N)
10. Secure strings (5) and (6) to pass through marks H and M and marks I and N, respectively as shown in the illustration.

**NOTICE:**

When securing the string, check that there is no slack and the string is not twisted.



*a	String 1
*b	String 2
*c	String 3
*d	String 4
*e	String 5
*f	String 6
*g	Mark H
*h	Mark I
*i	Mark M
*j	Mark N

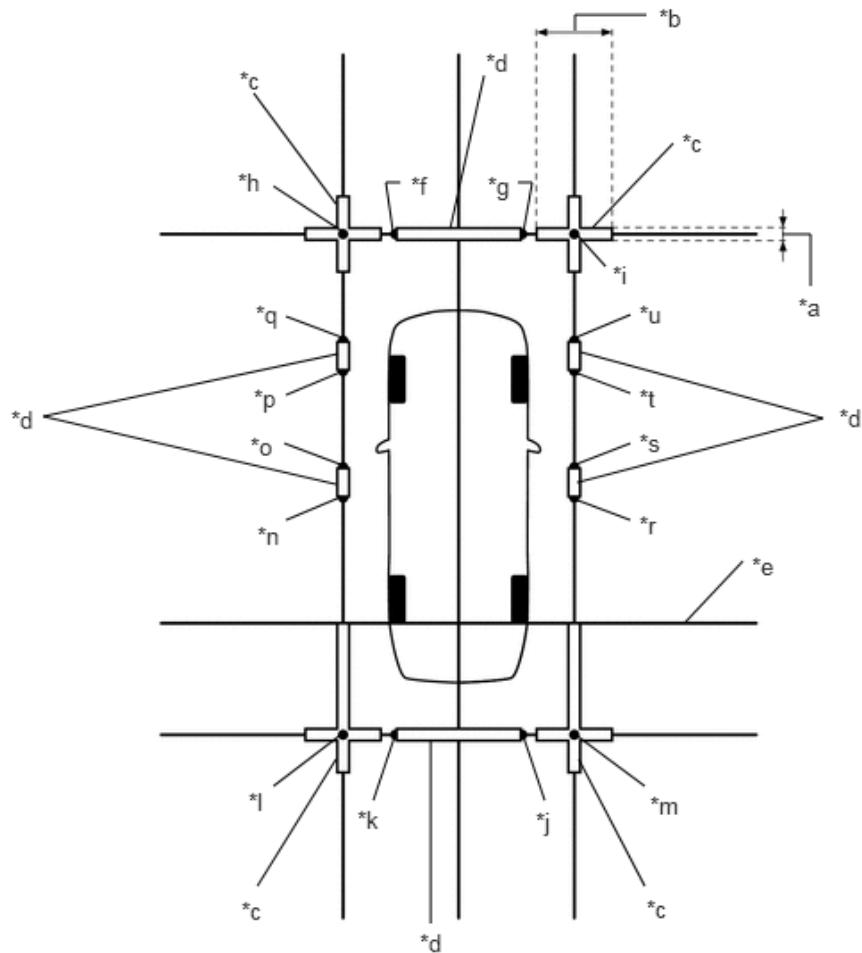


*a	1400 mm (4.59 ft.)
*b	1600 mm (5.25 ft.)
*c	3000 mm (9.84 ft.)
*d	3200 mm (10.5 ft.)
*e	String 1
*f	String 2
*g	String 3
*h	String 4
*i	String 5
*j	String 6
*k	Mark O
*l	Mark P
*m	Mark Q
*n	Mark R
*o	Mark S
*p	Mark T
*q	Mark U
*r	Mark V

11. Make marks on string 5 that are 1400 mm (4.59 ft.), 1600 mm (5.25 ft.), 3000 mm (9.84 ft.), and 3200 mm (10.5 ft.) from the datum line (string 1) as shown in the illustration. (Marks O, P, Q and R)
12. Make marks on string 6 that are 1400 mm (4.59 ft.), 1600 mm (5.25 ft.), 3000 mm (9.84 ft.), and 3200 mm (10.5 ft.) from the datum line (string 1) as shown in the illustration. (Marks S, T, U and V)
13. Place and secure the cross target bars centered on marks H and I and marks M and N as shown in the illustration.

**NOTICE:**

- Place the cross check markers perpendicular to the string.
- Make each arm of the cross check markers 800 mm long and 100 mm wide.
- Extend the rear cross target bars to string (1) as shown in the illustration.



*a	100 mm (0.33 ft.)	*b	800 mm (2.62 ft.)
*c	Cross Check Marker	*d	Check Marker
*e	String 1	*f	Mark F
*g	Mark G	*h	Mark H
*i	Mark I	*j	Mark K
*k	Mark L	*l	Mark M
*m	Mark N	*n	Mark O
*o	Mark P	*p	Mark Q

*q	Mark R	*r	Mark S
*s	Mark T	*t	Mark U
*u	Mark V	-	-

14. Place target bars between marks F and G, marks K and L, marks O and P, marks Q and R, marks S and T, and marks U and V.
15. Perform the adjust screen (procedure 8).

## 9. PROCEDURE 8: ADJUST SCREEN

- a. Enter diagnostic mode.

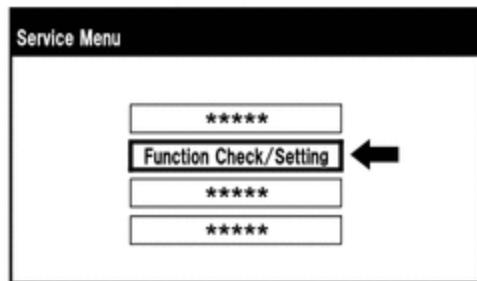
Click here 2023 - 2025 MY RAV4 RAV4 HV [10/2022 - ]; AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM:

DIAGNOSIS SYSTEM

**CAUTION:**

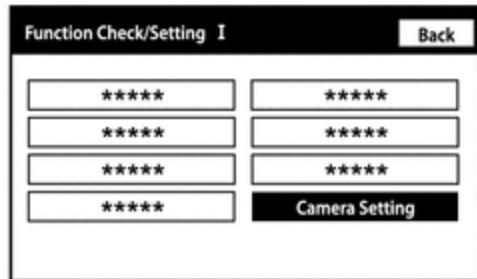
**Adjustment must be performed with the engine running. Therefore, apply the parking brake, depress the brake pedal and move the shift lever to P to ensure that the vehicle does not begin moving unexpectedly.**

- b. Select "Function Check/Setting" from the Service Menu screen.



H

- c. Select "Camera Setting" from the Function Check/Setting I screen to display the Mode Setting(\*) screen.



H

**NOTICE:**

If "Camera Setting" is not displayed on the screen, turn the engine switch off, and then turn it on (IG) again and enter the diagnostic mode.

- d. Select "View Adjustment" on the Mode Setting(\*) screen to display the Signal Check(\*) screen.

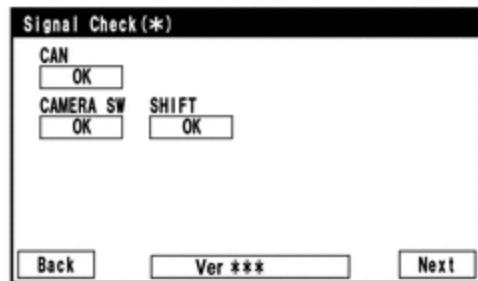


O

**HINT:**

To select a grayed out item, select and hold the item for 2 seconds or more.

- e. Select "Next" from the Signal Check(\*) screen to display the adjustment screen.

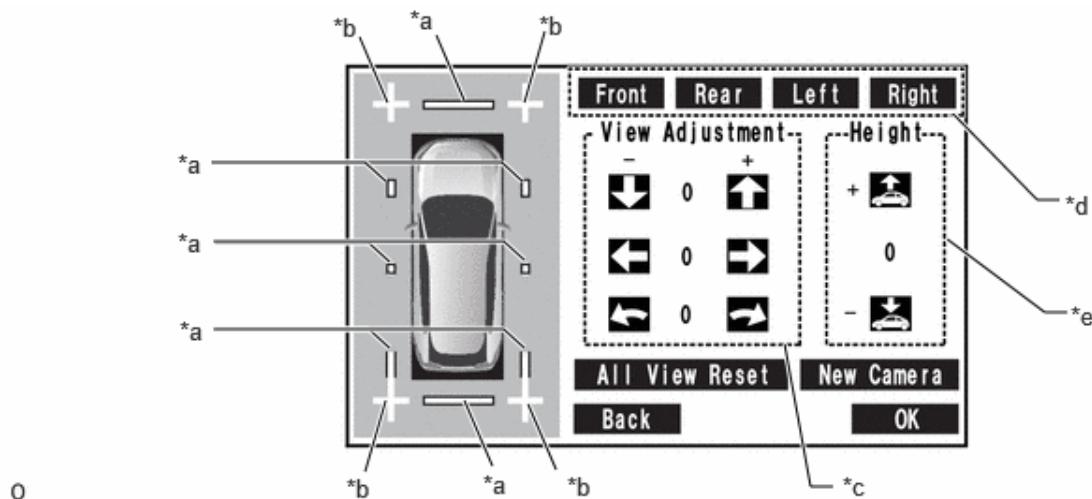


H

**NOTICE:**

- When "CHK" (red) is displayed for an item on the Signal Check(\*) screen, selecting "Next" will not change to the adjustment screen.
- Check the Signal Check(\*) screen when "CHK" (red) is displayed for an item on the Signal Check(\*) screen.

- f. Perform screen adjustment.

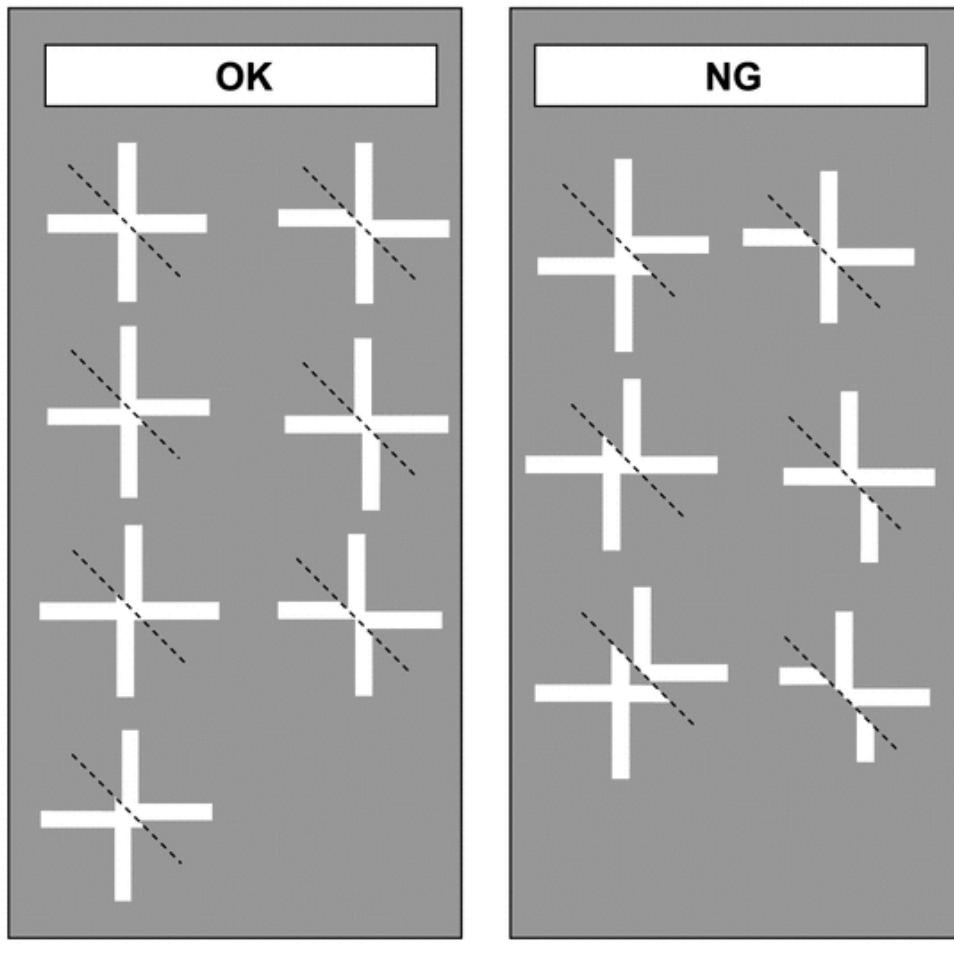


*a	Red Line	*b	Cross Check Marker (for Connection Judgment)
*c	Adjustment Buttons	*d	Camera Select Buttons
*e	Vehicle Height Adjustment Buttons	-	-

### NOTICE:

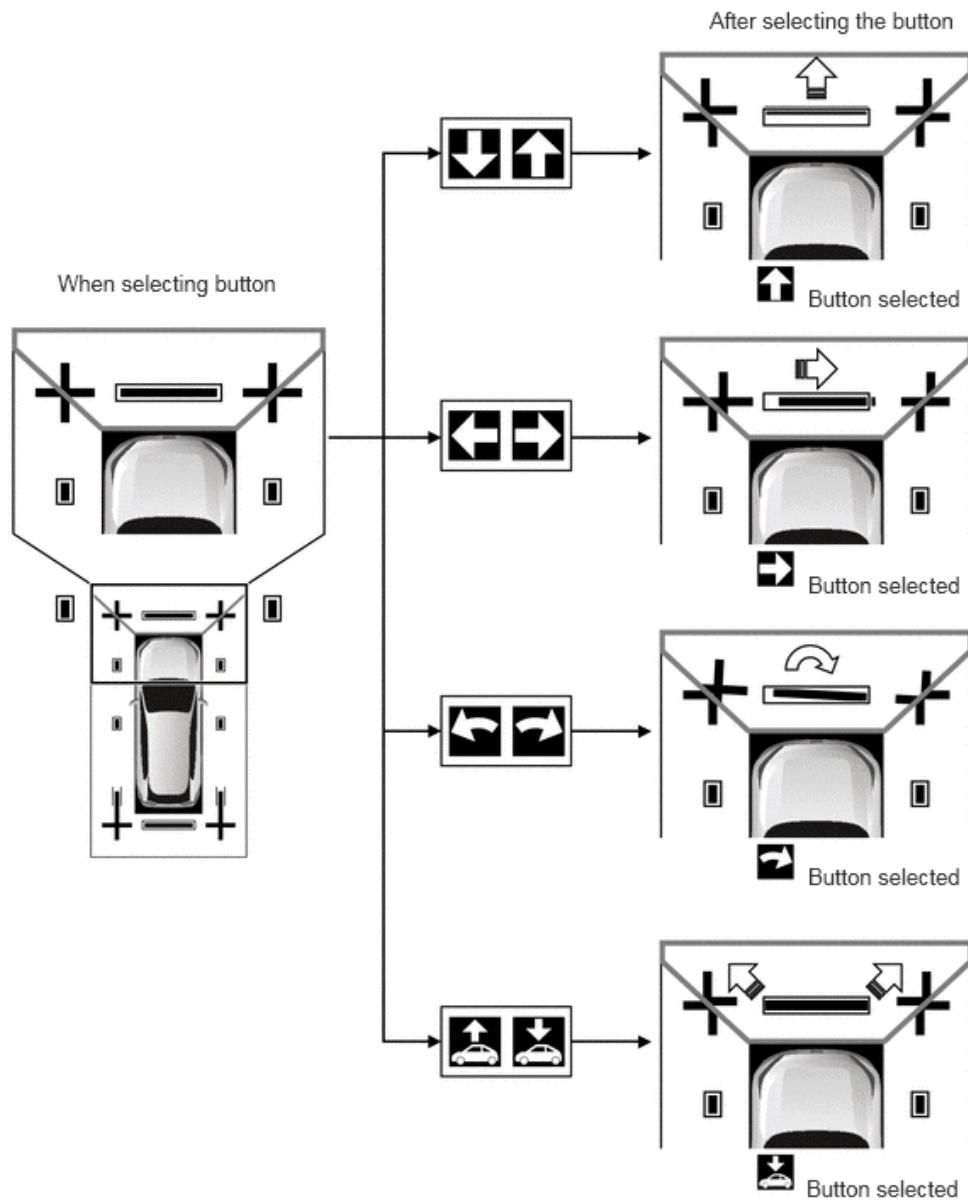
After replacing a camera, use the camera select buttons to select the replaced camera, and select "New Camera".

1. Check that the cross target bars displayed on the adjustment screen appear connected.

**NOTICE:**

- Before checking the markers on the adjustment screen, ensure that the cross target bars have been placed correctly.
- If a cross target bar appears displaced on the adjustment screen, use the camera select buttons to select the corresponding camera, and use the adjustment buttons or vehicle height adjustment

**buttons to adjust the screen.**

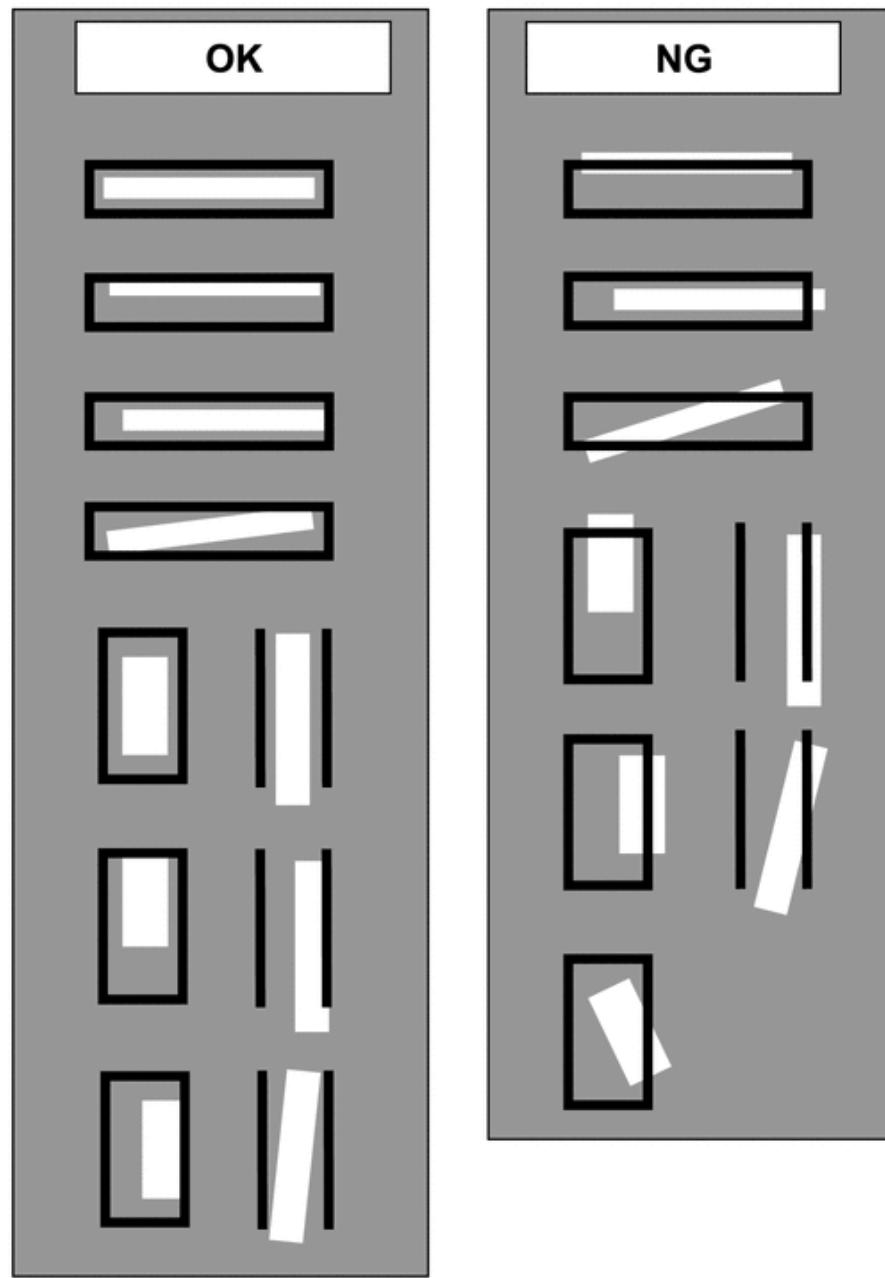


0

#### HINT:

**To repeat the adjustment, select "All View Reset" to return all adjustment values to their initial values.**

2. Check that the target bars do not protrude outside the red frames displayed on the adjustment screen.

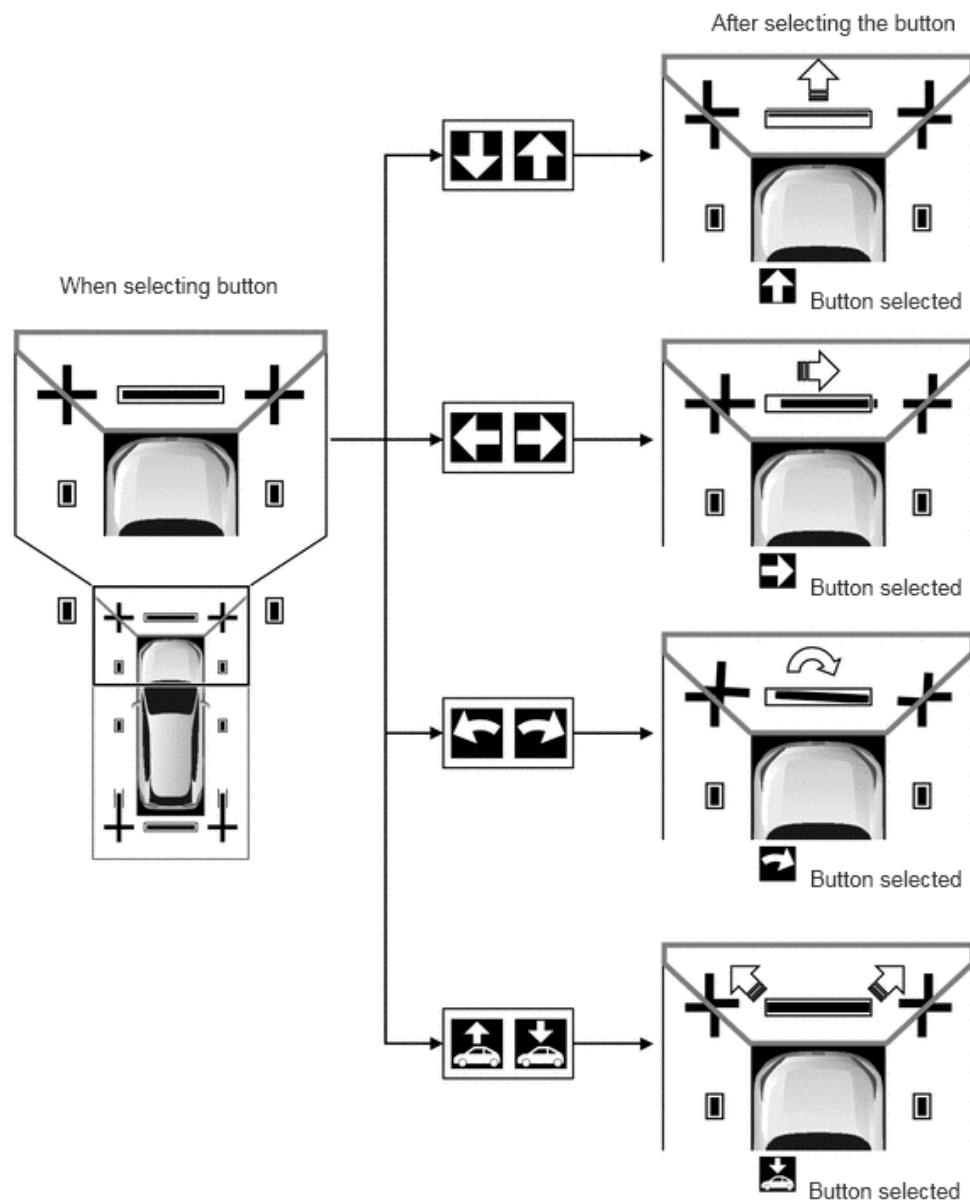


H

**NOTICE:**

- Before checking the adjustment screen, ensure that the check markers have been placed correctly.
- If a target bar protrudes outside a red frame on the adjustment screen, use the camera select buttons to select the corresponding camera, and use the adjustment buttons or vehicle height

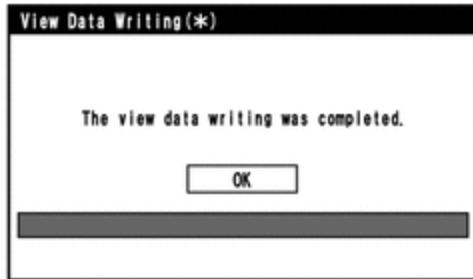
**adjustment buttons to adjust the screen.**



#### HINT:

**To repeat the adjustment, select "All View Reset" to return all adjustment values to their initial values.**

- g. When all adjustments are completed, press "OK".



H

- h. If data writing ends normally, "The view data writing was completed." is displayed.
- i. Select "OK".
- j. Cancel diagnostic mode.

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## 10. PROCEDURE 9: IMPORT/EXPORT CONSTANT VALUE

### CAUTION:

**Adjustment must be performed with the engine running. Therefore, apply the parking brake, depress the brake pedal and move the shift lever to P to ensure that the vehicle does not begin moving unexpectedly.**

- a. ECU data save

### HINT:

**Using the parking assist ECU installed to the vehicle, output the items necessary for camera adjustment.**

1. Using GTS, select "Chassis" → "Circumference Monitoring Camera Control Module" → "Utility" to perform utility.

**Chassis > Circumference Monitoring Camera Control Module > Utility**

Tester Display
ECU Data Save

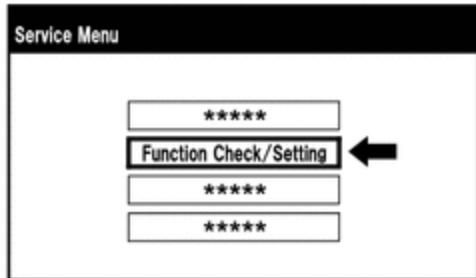
2. In accordance with the screen, perform ECU data save.
3. Replace parking assist ECU.

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- b. Procedure After ECU Replacement

1. Turn the ignition switch to ON, change the shift position to R, and then change the shift position to P.
2. Press the panoramic view monitor switch.
3. Enter diagnostic mode.

Click here [2023 - 2025 MY RAV4 RAV4 HV \[10/2022 - \]; AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: DIAGNOSIS SYSTEM](#)  
 4. Select "Function Check/Setting" from the "Service Menu" screen.

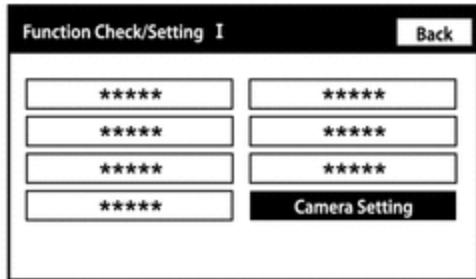


H

5. Select "Camera Setting" on the "Function Check/Setting I" screen.

**NOTICE:**

If the "Camera Setting" selection screen is not displayed, turn the ignition switch off and enter the diagnosis screen after turning the ignition switch to ON once again.

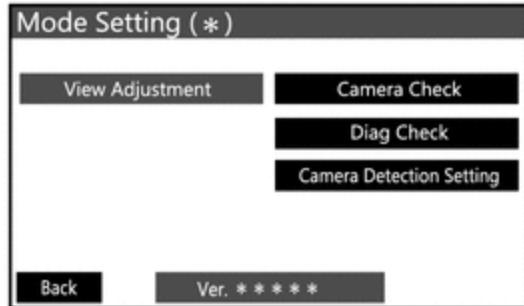


H

6. Select "View Adjustment" on the "Mode Setting (\*)" screen to display the adjustment screen.

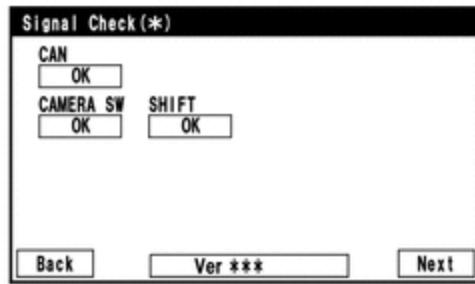
**HINT:**

To select a grayed out item, select and hold the item for 2 seconds or more.



O

7. After checking the screen, press the "Next" button on the "Signal Check (\*)" screen.

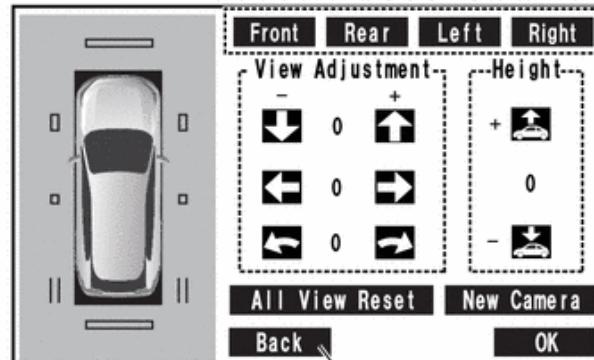


H

#### NOTICE:

- If performing the adjustment after proceeding to the next screen, confirm that all items display "OK" (blue) before selecting "Next".
- When "CHK" (red) is displayed, perform the inspections.  
[Click here 2023 - 2025 MY RAV4 \[10/2022 - \]; PARK ASSIST / MONITORING: PANORAMIC VIEW MONITOR SYSTEM \(for Gasoline Model\): DIAGNOSIS SYSTEM](#)
- The screen is displayed only when the shift signal is received via a direct line.
- It takes approximately 1 second to perform an OK judgement of CAN.

8. Display the adjustment screen. Then press the "Back" button to return to the Signal Check(\*) screen.



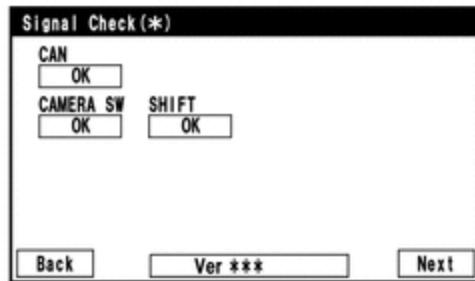
0

\*a

\*a Back Button

- -

9. Select "Back" from the Signal Check(\*) screen to display the Mode Setting(\*) screen.



H

10. Cancel diagnosis mode and display the multi-media screen.

[Click here 2023 - 2025 MY RAV4 RAV4 HV \[10/2022 - \]](#); AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: DIAGNOSIS SYSTEM

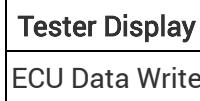
- c. ECU data write

**HINT:**

**Input the items necessary for camera adjustment to the replacement parking assist ECU.**

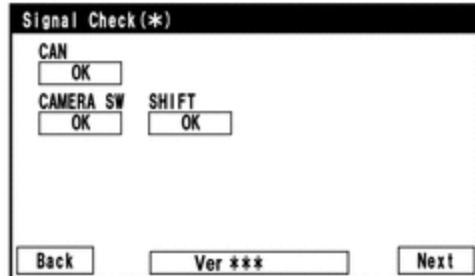
- Select "Chassis"-> "Circumference Monitoring Camera Control Module"-> "Utility" from GTS to provide work support.

**Chassis > Circumference Monitoring Camera Control Module > Utility**



2. In accordance with the screen, perform ECU data write.

d. After checking the screen, press the "Next" button on the "Signal Check (\*)" screen.



H

#### NOTICE:

- If performing the adjustment after proceeding to the next screen, confirm that all items display "OK" (blue) before selecting "Next".
- When "CHK" (red) is displayed, perform the inspections.  
[Click here 2023 - 2025 MY RAV4 \[10/2022 - \]; PARK ASSIST / MONITORING: PANORAMIC VIEW MONITOR SYSTEM \(for Gasoline Model\): DIAGNOSIS SYSTEM](#)
- The screen is displayed only when the shift signal is received via a direct line.
- It takes approximately 1 second to perform an OK judgement of CAN.

e. If data writing ends normally, "The view data writing was completed." is displayed.



H

f. Press "OK".

g. Cancel diagnostic mode.

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