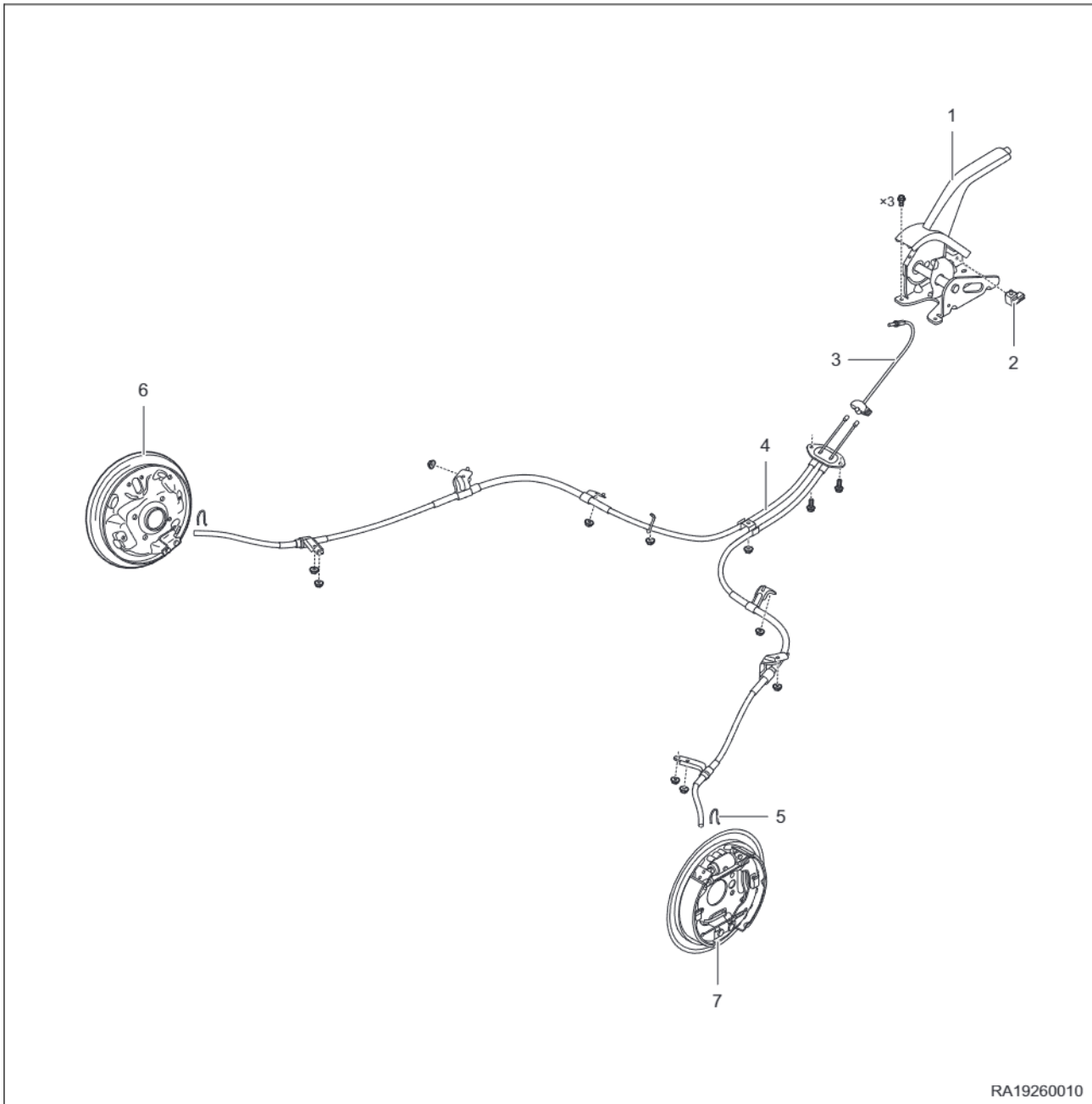

PARKING BRAKE

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GENERAL INFORMATION

Description



1 - Parking Brake Control Mechanism Assembly	2 - Parking Brake Switch Assembly
3 - Parking Brake Front Cable Assembly	4 - Parking Brake Rear Cable Assembly
5 - Parking Brake Cable Fixing Wire	6 - Rear Left Brake Assembly
7 - Rear Right Brake Assembly	

All vehicles are equipped with a manually operated parking brake control mechanism assembly, which is mounted between the front seats. The tension balance block is built into parking brake front cable assembly. Each rear wheel has an individual parking brake rear cable assembly, which is respectively connected with the parking brake front cable assembly, parking brake control mechanism and rear brake shoe assembly. The parking brake cable is made of flexible wire.

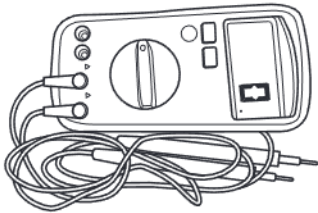
Specifications

Torque Specifications

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10
Coupling Nut Between Parking Brake Control Mechanism Assembly and Vehicle Body	25 ± 3
Coupling Bolt Between Armrest Box Fixing Bracket Assembly and Parking Brake Control Mechanism Assembly	25 ± 3
Coupling Nut Between Armrest Box Fixing Bracket Assembly and Vehicle Body	25 ± 3
Coupling Bolt Between Parking Brake Rear Cable Assembly Bracket and Vehicle Body	10 ± 1.5
Coupling Nut Between Parking Brake Rear Cable Assembly Bracket and Vehicle Body	10 ± 1.5
Coupling Nut Between Parking Brake Rear Cable Assembly Bracket and Rear Shaft Assembly	10 ± 1.5

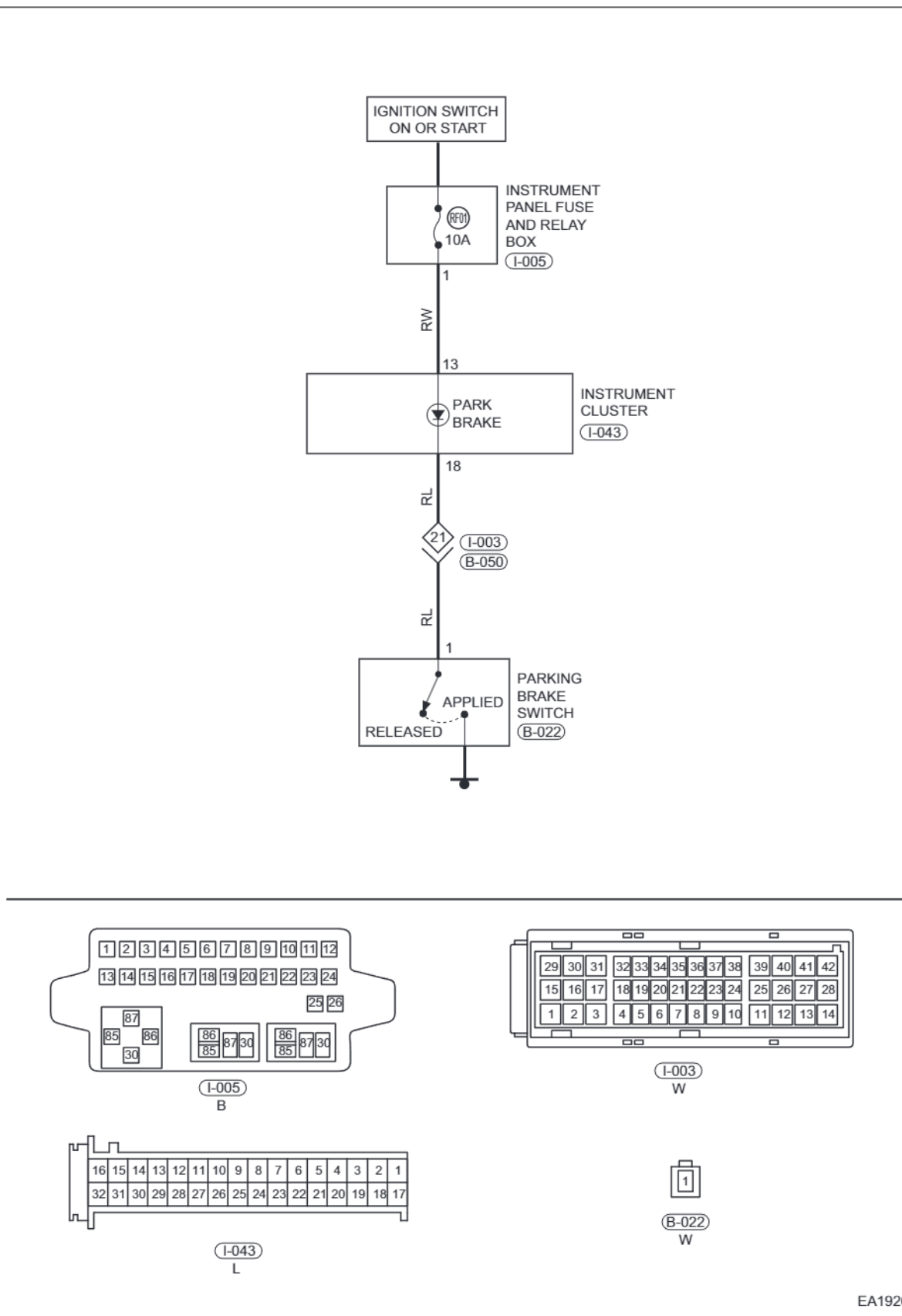
Tool

General Tool

Digital Multimeter	 RCH0000002
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Circuit Diagram

Parking Brake System



DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

Use the table below to help determine the cause of the problem symptoms. Check each suspected area in sequence. Repair or replace the faulty components, or adjust them as necessary.

Symptom	Suspected Area	See page
Parking brake stuck	Parking brake control mechanism stroke (incorrect)	26-7
	Parking brake shoe clearance (incorrect)	26-7
	Parking brake shoe return tension spring (damaged)	25-41
Abnormal parking brake operation	Parking brake shoe (worn)	25-41
	Rear brake drum (excessively worn)	25-41
	Parking brake front cable assembly (improperly fixed)	26-13
	Parking brake rear cable assembly (improperly fixed)	26-14
	Parking brake control mechanism assembly (improperly fixed)	26-11
	Parking brake control mechanism assembly (stuck)	26-11
Brake warning light does not come on when parking brake is applied	Warning light circuit (faulty)	26-9

ON-VEHICLE SERVICE

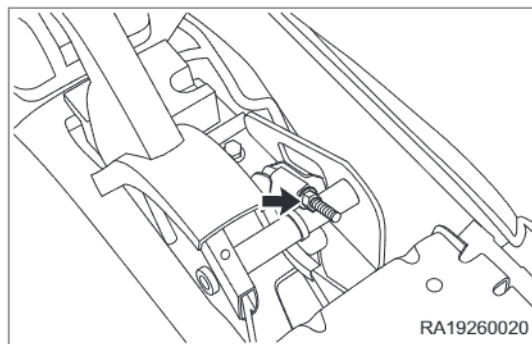
Adjustment

Abnormal parking brake operation may be caused by the worn brake shoe, incorrect brake shoe clearance adjustment, incorrect parking brake control mechanism stroke or incorrect parking brake component installation. Perform the following procedures to adjust the parking brake control mechanism stroke:

CAUTION

- The rear brake shoe of this model is equipped with gear type automatic adjustment mechanism, so it is not necessary to adjust the brake shoe clearance manually. When the brake clearance exceeds the specified value, depress the brake pedal to adjust it through the automatic adjustment unit installed between the two brake shoe linings.

- Check the parking brake control mechanism stroke.
 - Pull up the parking brake control mechanism 3 to 4 times with a force of 260 ± 20 N, and count the clicking sounds.
Standard: 4 to 7 clicking sounds (no rear parking brake stuck)
- Support and raise the vehicle to the proper height.
- Remove the rear wheel (See page 23-10).
- Remove the rear brake drum assembly (See page 25-39).
- Remove the auxiliary fascia console assembly (See page 43-10).
- Adjust the parking brake control mechanism stroke:
 - Fully release the parking brake control mechanism.
 - Pull up the parking brake control mechanism until 3 or 4 clicking sounds are heard, then tighten the parking brake control mechanism locking nut.
(Tightening torque: 8 ± 1 N·m)



- After tightening the parking brake control mechanism locking nut, pull the parking brake control mechanism 3 times with a force of 200-300 N to eliminate the remaining force of the cable.
- Correct judgment method: after adjustment, completely release the parking brake control mechanism and rotate the rear wheel by hand.

OK: Rear wheel can be rotated freely without dragging.

Pull up the parking brake control mechanism until a clicking sound is heard. There is resistance when rotating the rear wheel by hand. Pull up the parking brake control mechanism until 2 clicking sounds are heard and the rear wheel cannot rotate.

- When operating the parking brake control mechanism, check that the brake warning light illuminates at the first click.

OK: Parking brake warning light always illuminates at the first click.

- If the result is not as specified, repeat the above procedures until the parking brake control mechanism stroke is proper.
- Install the auxiliary fascia console assembly (See page 43-10).

8. Install the rear brake drum ([See page 25-39](#)).
9. Install the rear wheel ([See page 23-10](#)).

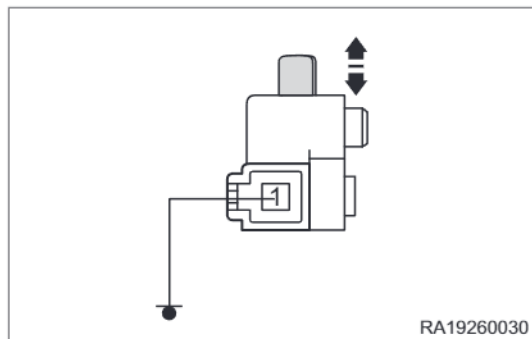
Parking Brake Switch Assembly

On-vehicle Inspection

1. Disconnect the parking brake switch assembly connector, and check the continuity of the parking brake switch assembly with the ohm band of digital multimeter as shown in the table below.

Standard Condition

Multimeter Connection	Condition	Specified Condition
Terminal 1 - Body ground	Parking brake applied (switch pin released)	Continuity
	Parking brake released (switch pin pushed)	No continuity



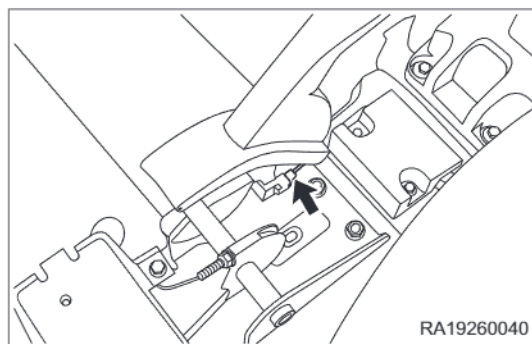
If the result is not as specified, replace the parking brake switch assembly.

Removal

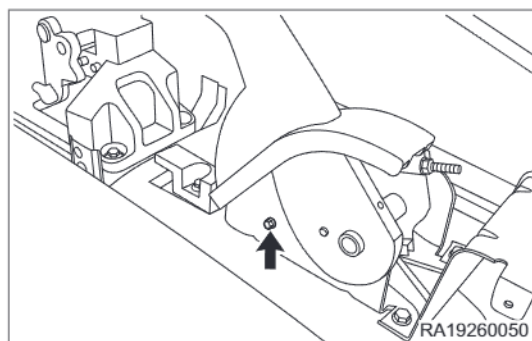
CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when repairing.
- Try to prevent the body paint surface from being scratched during removal and installation.

1. Fix the tire and wheel assembly.
2. Remove the auxiliary fascia console assembly ([See page 43-10](#)).
3. Remove the parking brake switch assembly.
 - a. Disconnect the parking brake switch assembly wire harness connector (arrow) as shown in the illustration.



- b. Using a cross screwdriver, loosen the fixing screw (arrow) of parking brake switch assembly.



- c. Remove the parking brake switch assembly.

Inspection

1. Check the parking brake switch assembly.
 - a. Check the parking brake switch assembly for wear or break. Replace the parking brake switch assembly as necessary.
 - b. Check if the parking brake switch assembly compressed spring is damaged or the spring force is insufficient. Replace the parking brake switch assembly as necessary.

Installation

Installation is in the reverse order of removal.

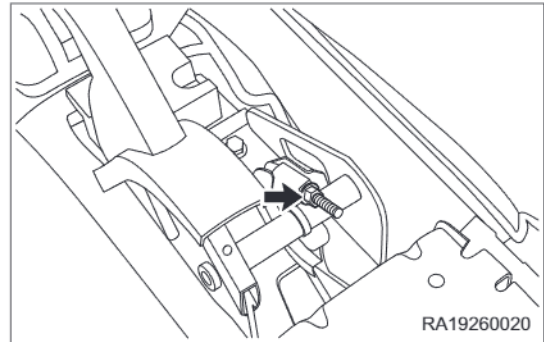
Parking Brake Control Mechanism Assembly

Removal

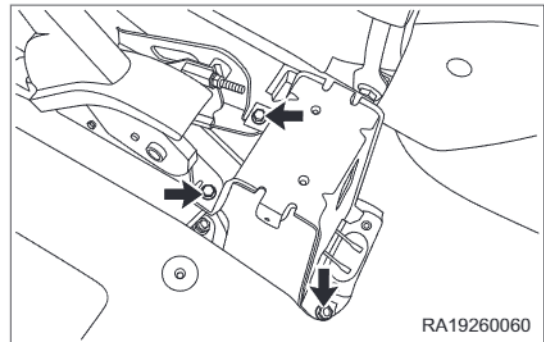
CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when repairing.
- Try to prevent the body paint surface from being scratched during removal and installation.

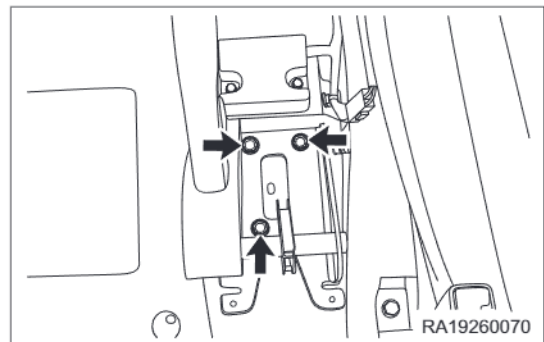
1. Fix the tire and wheel assembly.
2. Remove the auxiliary fascia console assembly (See page 43-10).
3. Remove the parking brake switch assembly (See page 26-9).
4. Remove the parking brake control mechanism assembly.
 - a. Fully release the parking brake control mechanism.
 - b. Loosen the locking nut (arrow) of parking brake control mechanism assembly to release the tension of parking brake cable assembly as shown in the illustration.



- c. Remove the fixing bolts and the fixing nuts (arrow) of armrest box fixing bracket assembly as shown in the illustration.
(Tightening torque: $25 \pm 3 \text{ N}\cdot\text{m}$)



- d. Remove the coupling nuts (arrow) between the parking brake control mechanism assembly and the vehicle body.
(Tightening torque: $25 \pm 3 \text{ N}\cdot\text{m}$)



- e. Disengage the parking brake front cable assembly and remove the parking brake control mechanism assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Always tighten the coupling bolts and nuts to the specified torque.

HINT:

Be sure to check the parking brake control mechanism stroke after installing the parking brake control mechanism assembly. Adjust the parking brake control mechanism stroke to the proper position by adjusting the parking brake control mechanism locking nut if necessary.

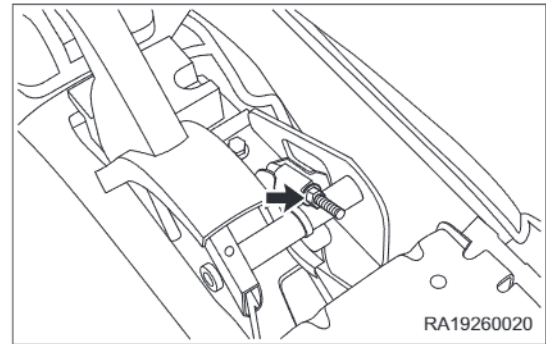
Parking Brake Front Cable Assembly

Removal

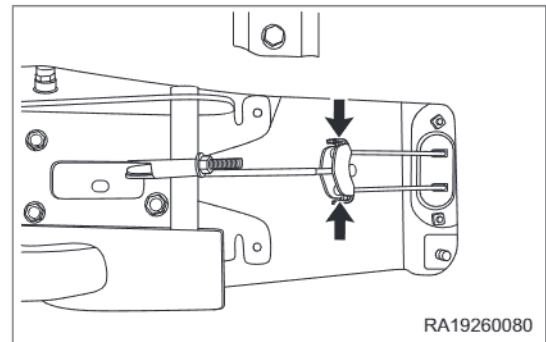
CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when repairing.
- Try to prevent the body paint surface from being scratched during removal and installation.

1. Fix the tire and wheel assembly.
2. Remove the auxiliary fascia console assembly ([See page 43-10](#)).
3. Remove the parking brake front cable assembly.
 - a. Fully release the parking brake control mechanism.
 - b. Loosen the locking nut (arrow) of parking brake control mechanism assembly to release the tension of parking brake cable assembly as shown in the illustration.



- c. Disengage the parking brake rear cable assembly from two grooves (arrow) on the rear of parking brake front cable assembly.



- d. Remove the parking brake front cable assembly.

Installation

Installation is in the reverse order of removal.

HINT:

Be sure to check the parking brake control mechanism stroke after installing the parking brake front cable assembly. Adjust the parking brake control mechanism stroke to the proper position by adjusting the parking brake control mechanism locking nut if necessary.

Parking Brake Rear Cable Assembly

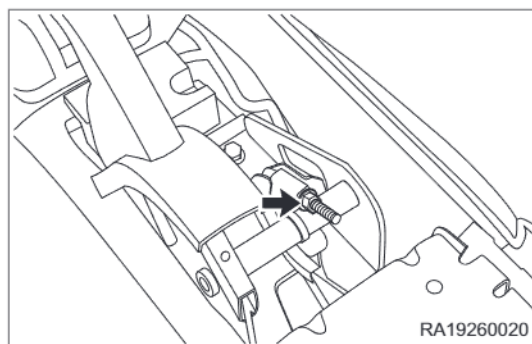
Removal

CAUTION

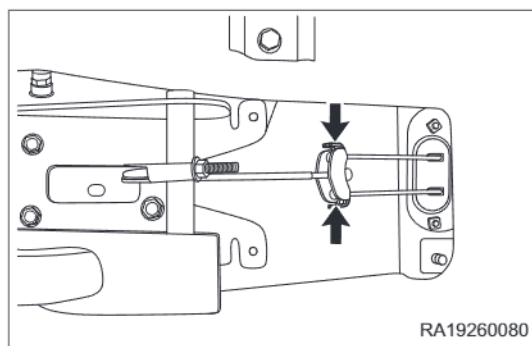
- Be sure to wear the necessary safety equipment to prevent accidents when repairing.
- Try to prevent the body paint surface from being scratched during removal and installation.

1. Remove the rear wheel ([See page 23-10](#)).
2. Remove the rear brake drum assembly ([See page 25-39](#)).
3. Remove the rear axle hub ([See page 21-19](#)).
4. Remove the auxiliary fascia console assembly ([See page 43-10](#)).
5. Remove the parking brake rear cable assembly.

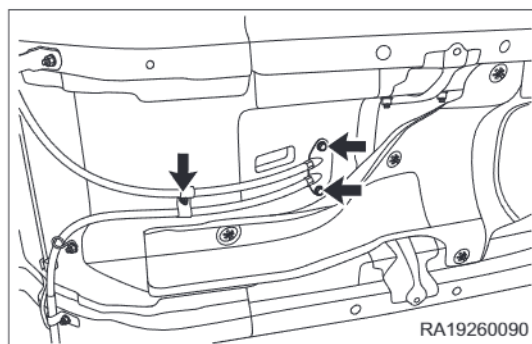
- a. Fully release the parking brake control mechanism.
- b. Loosen the locking nut (arrow) of parking brake control mechanism assembly to release the tension of parking brake cable assembly as shown in the illustration.



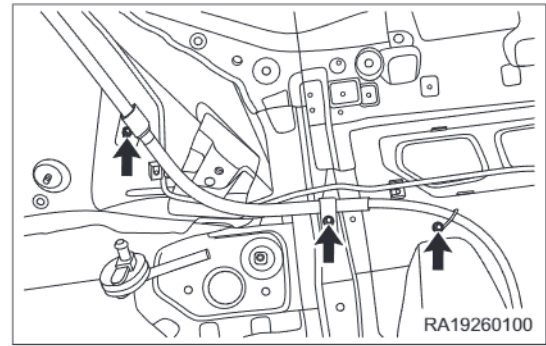
- c. Disengage the parking brake rear cable assembly from two grooves (arrow) on the rear of parking brake front cable assembly.



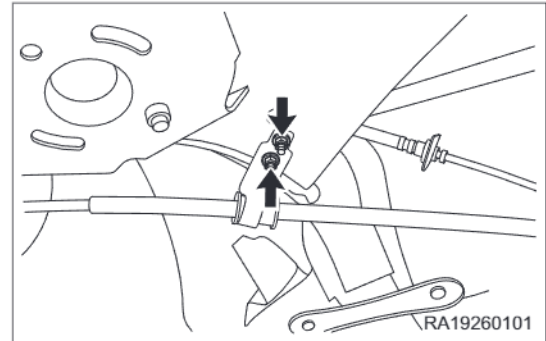
- d. Loosen the coupling bolts and nut (arrow) between the front of parking brake rear cable assembly and the vehicle body.
(Tightening torque: $10 \pm 1.5 \text{ N}\cdot\text{m}$)



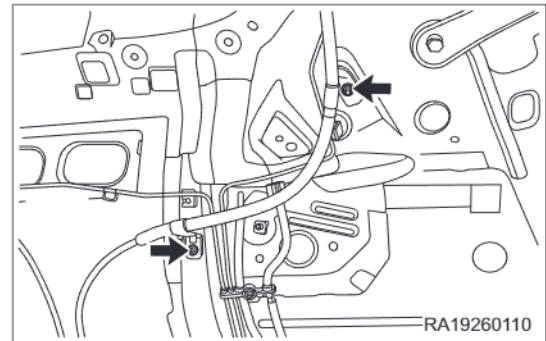
- e. Loosen the coupling nuts (arrow) between the center part on the left side of parking brake rear cable assembly and the vehicle body, and disengage the cable fixing bracket.
(Tightening torque: $10 \pm 1.5 \text{ N}\cdot\text{m}$)



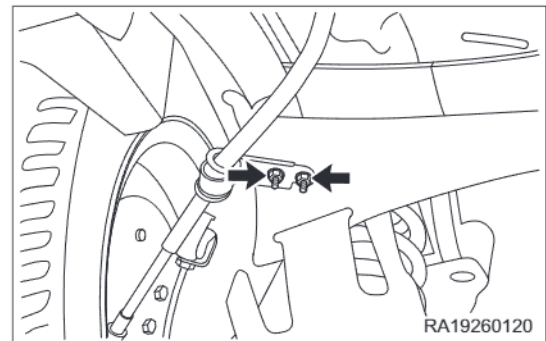
- f. Loosen the coupling nuts (arrow) between the rear left fixing bracket of parking brake rear cable assembly and the rear shaft assembly.
(Tightening torque: $10 \pm 1.5 \text{ N}\cdot\text{m}$)



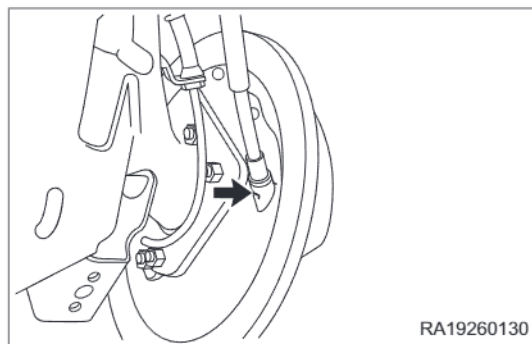
- g. Loosen the coupling nuts (arrow) between the center part on the right side of parking brake rear cable assembly and the vehicle body, and disengage the cable fixing bracket.
(Tightening torque: $10 \pm 1.5 \text{ N}\cdot\text{m}$)



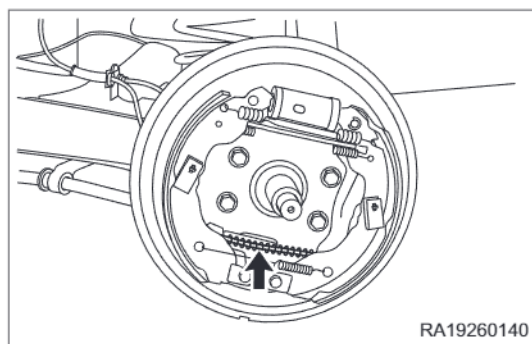
- h. Loosen the coupling nuts (arrow) between the rear right fixing bracket of parking brake rear cable assembly and the rear shaft assembly.
(Tightening torque: $10 \pm 1.5 \text{ N}\cdot\text{m}$)



- i. Remove the left side fixing wire (arrow) of parking brake rear cable assembly with the needle nose pliers, and use the same procedure to remove the right side.



- j. Using the needle-nose pliers, tighten the left side return spring (arrow) of parking brake rear cable assembly and disengage the spring ends from the brake shoe interlock rod, and use the same procedure to remove the right side.



- k. Remove the parking brake rear cable assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Always tighten the coupling bolts and nuts to the specified torque.
- During installation, make sure to align the positioning part of the parking brake rear cable assembly fixing bracket and the positioning hole on the vehicle body.

HINT:

The parking brake should be adjusted after replacing the brake shoe or parking brake cable assembly. Check if the parking brake is functioning properly after adjustment is completed.

- Fully pull up the parking brake control mechanism.
- Release the parking brake control mechanism and check if the rear wheels rotate freely.
- If the wheels are difficult to rotate freely, repeat the adjustment procedure.
- After driving for a period of time, the parking brake control mechanism stroke should be readjusted because of the wear of rear brake shoes.

