

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE REAR CONSOLE BOX SUB-ASSEMBLY**

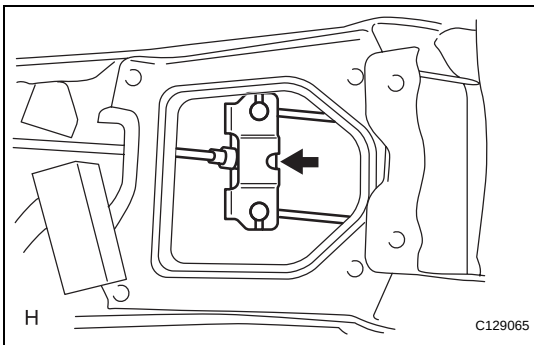
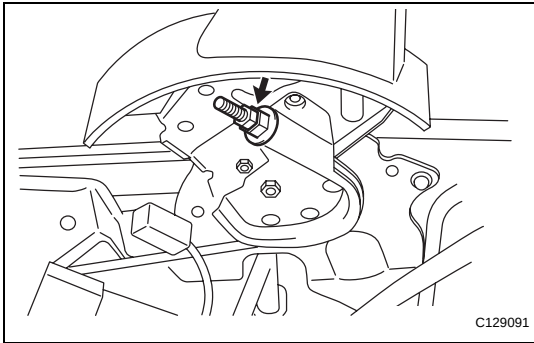
- (a) Remove the rear console box (see page [IP-16](#)).

HINT:

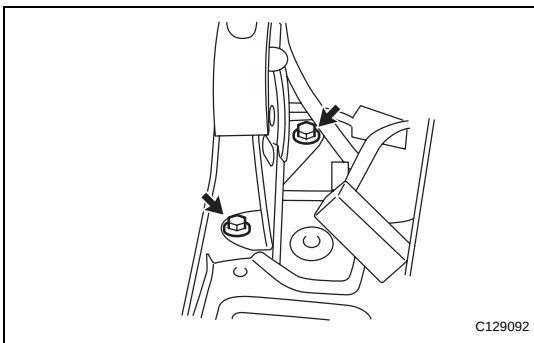
Refer to the procedures from the removal of the No. 1 console upper panel garnish up until the removal of the rear console box sub-assembly.

3. **REMOVE PARKING BRAKE LEVER SUB-ASSEMBLY**

- (a) Disconnect the parking brake switch connector.
- (b) Remove the lock nut and wire adjusting nut.



- (c) Disconnect the No. 1 parking brake cable from the parking brake equalizer.



- (d) Remove the 2 bolts and parking brake lever (with the No. 1 parking brake cable).

4. **REMOVE NO. 1 PARKING BRAKE CABLE ASSEMBLY**

- (a) Disconnect the cable from the lever.

5. **REMOVE PARKING BRAKE SWITCH ASSEMBLY**

- (a) Remove the screw and switch from the lever.

INSTALLATION

1. INSTALL PARKING BRAKE SWITCH ASSEMBLY

- (a) Install the parking brake switch with the screw.

Torque: 0.88 N*m (9.0 kgf*cm, 7.8 in.*lbf)

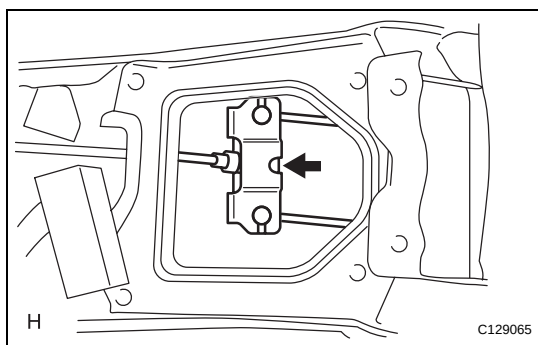
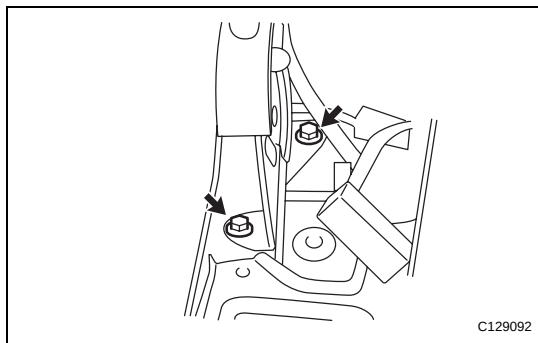
2. INSTALL NO. 1 PARKING BRAKE CABLE ASSEMBLY

- (a) Connect the cable to the lever.

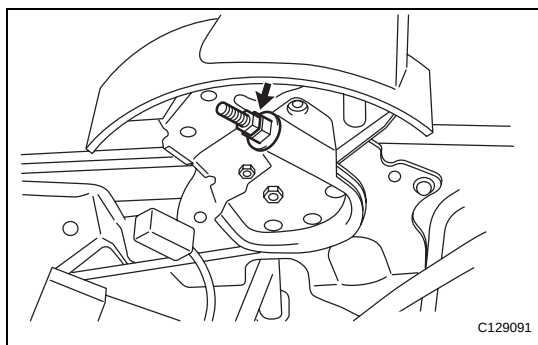
3. INSTALL PARKING BRAKE LEVER SUB-ASSEMBLY

- (a) Install the parking brake lever (with the No. 1 parking brake cable) with the 2 bolts.

Torque: 14.5 N*m (148 kgf*cm, 11 ft.*lbf)



- (b) Connect the No. 1 parking brake cable to the parking brake equalizer.



- (c) Temporarily install the wire adjusting nut and lock nut.

- (d) Connect the parking brake switch connector.

4. CHECK PARKING BRAKE LEVER TRAVEL (See page [PB-1](#))

5. ADJUST PARKING BRAKE LEVER TRAVEL (See page [PB-2](#))

6. INSTALL REAR CONSOLE BOX SUB-ASSEMBLY

- (a) Install the rear console box (see page [IP-23](#)).

HINT:

Refer to the procedures from the installation of the rear console box sub-assembly up until the installation of the No. 1 console upper panel garnish.

7. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

INSTALLATION

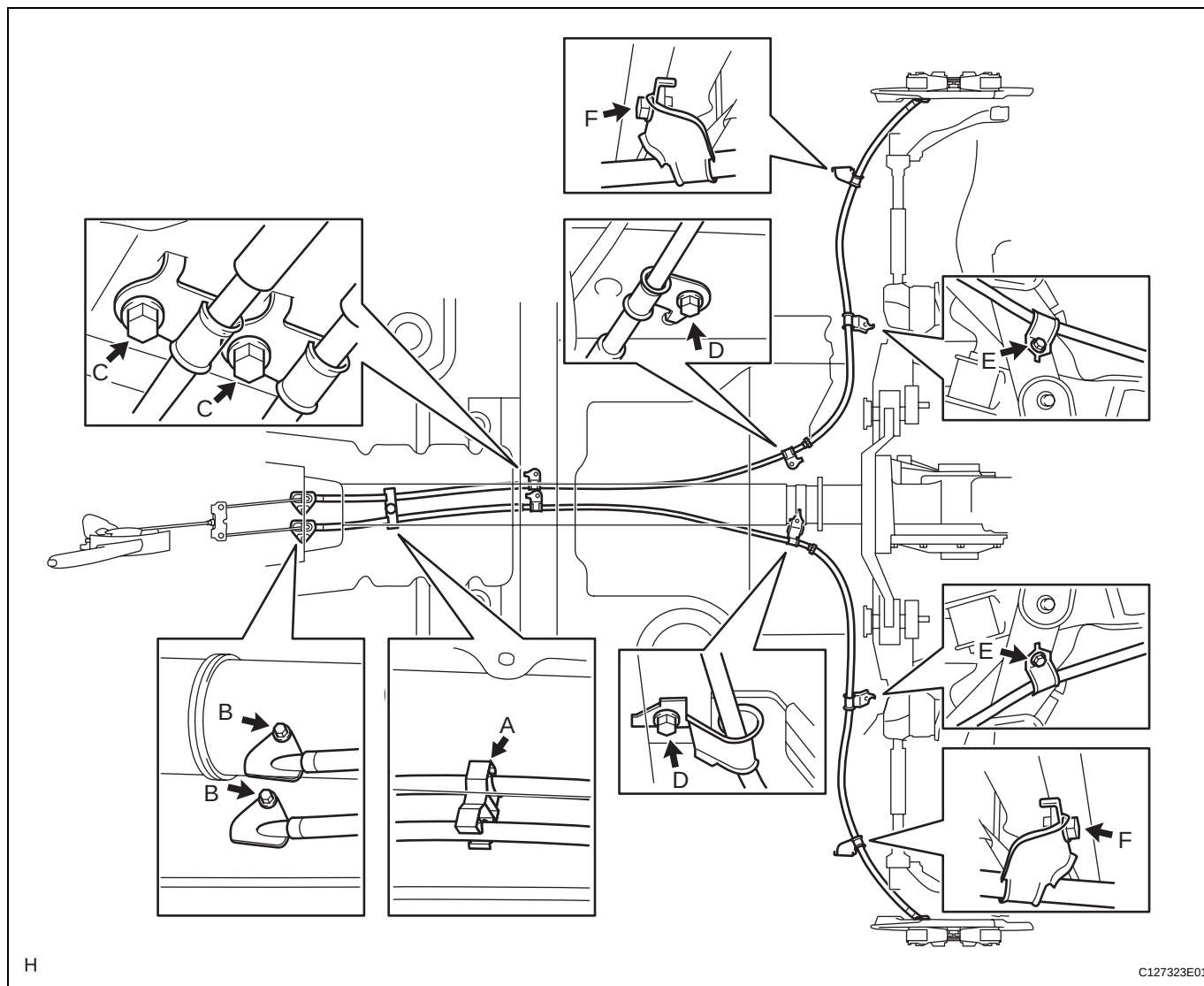
1. INSTALL PARKING BRAKE CABLE

- (a) Connect the cable to the backing plate and parking brake shoe lever.

(1) Pass the cable through the backing plate, and then connect the cable to the lever.

(2) Install the cable to the backing plate with the bolt.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)



- (b) Install the clamp and clamp bolt (labeled F) to the trailing arm.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

NOTICE:

Securely install the clamp.

- (c) Install the clamp and clamp bolt (labeled E) to the rear suspension crossmember.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

NOTICE:

Securely install the clamp.

- (d) Install the clamp and clamp bolt (labeled D) to the crossmember.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

NOTICE:

Securely install the clamp.

- (e) Install the clamp and clamp bolt (labeled C) to the body.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

NOTICE:

Securely install the clamp.

- (f) Install the casing cap and casing cap bolt (labeled B) to the body.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

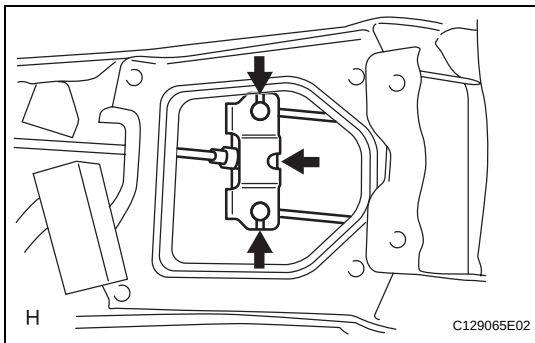
NOTICE:

Securely install the casing cap.

- (g) Install the cable clamp (labeled A) to the body.

NOTICE:

Securely install the clamp.



2. INSTALL PARKING BRAKE EQUALIZER

- (a) Connect the 3 cable ends to the equalizer.

3. INSTALL REAR WHEEL

Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

4. ADJUST PARKING BRAKE LEVER TRAVEL (See page [PB-2](#))

5. INSTALL REAR CONSOLE BOX SUB-ASSEMBLY

- (a) Install the rear console box (see page [IP-23](#)).

HINT:

Refer to the procedures from the installation of the rear console box sub-assembly up until the installation of the No. 1 console upper panel garnish.

REASSEMBLY

HINT:

- Use the same procedures for the LH side and RH side.
- The procedures listed below are for the LH side.

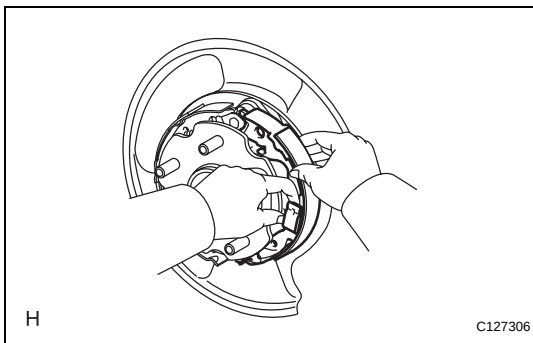
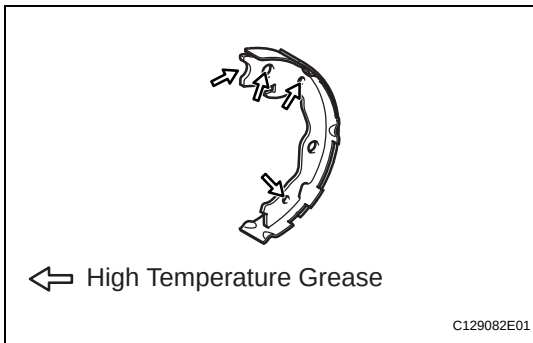
1. APPLY HIGH TEMPERATURE GREASE

- (a) Apply high temperature grease to the contact surface of the shoe and backing plate.

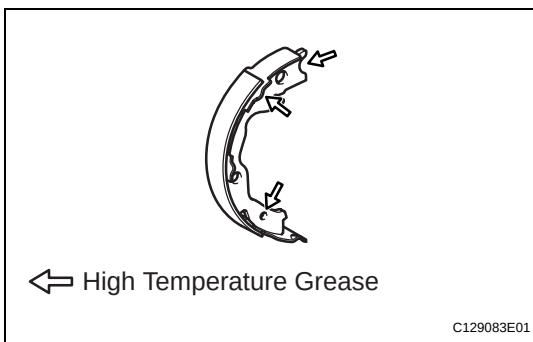
2. INSTALL PARKING BRAKE SHOE LEVER LH

3. INSTALL NO. 2 PARKING BRAKE SHOE ASSEMBLY LH

- (a) Connect the parking brake cable to the parking brake shoe lever.
- (b) Apply high temperature grease to the following contact surfaces of the shoe.
 - Shoe to anchor pin
 - Shoe to parking brake lever pin
 - Shoe to spring

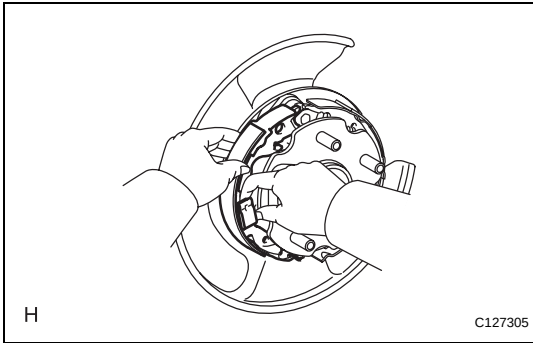


- (c) Install the shoe with the shoe hold-down spring and pin.

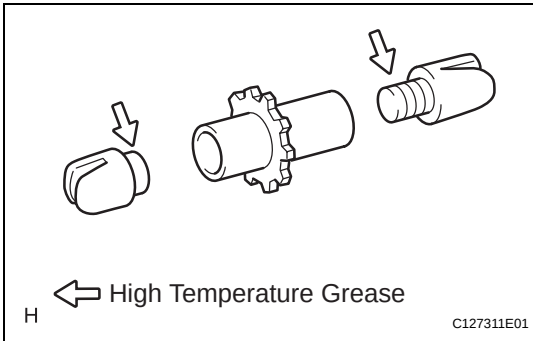


4. INSTALL NO. 1 PARKING BRAKE SHOE ASSEMBLY LH

- (a) Apply high temperature grease to the following contact surfaces of the shoe.
 - Shoe to anchor pin
 - Shoe to spring



- (b) Install the shoe with the shoe hold-down spring and pin.

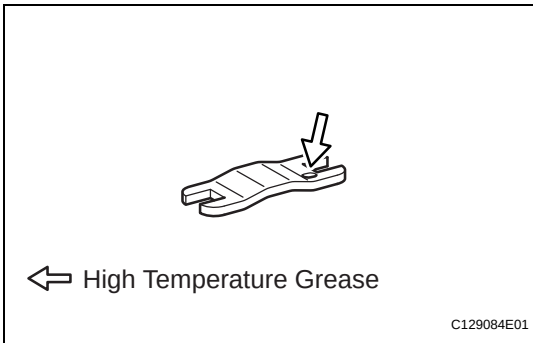


5. INSTALL PARKING BRAKE SHOE ADJUSTING SCREW SET

- (a) Apply high temperature grease to the adjusting bolt.
(b) Install the screw set.

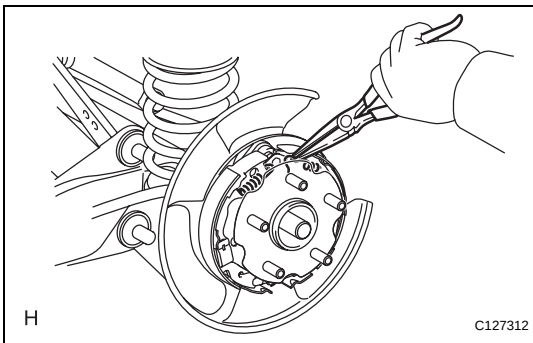
6. INSTALL PARKING BRAKE SHOE RETURN TENSION SPRING (for Lower Side)

- (a) Using needle-nose pliers, install the tension spring.



7. INSTALL PARKING BRAKE SHOE STRUT LH

- (a) Apply high temperature grease to the contact surface of the strut and shoe return tension spring.
(b) Install the strut.

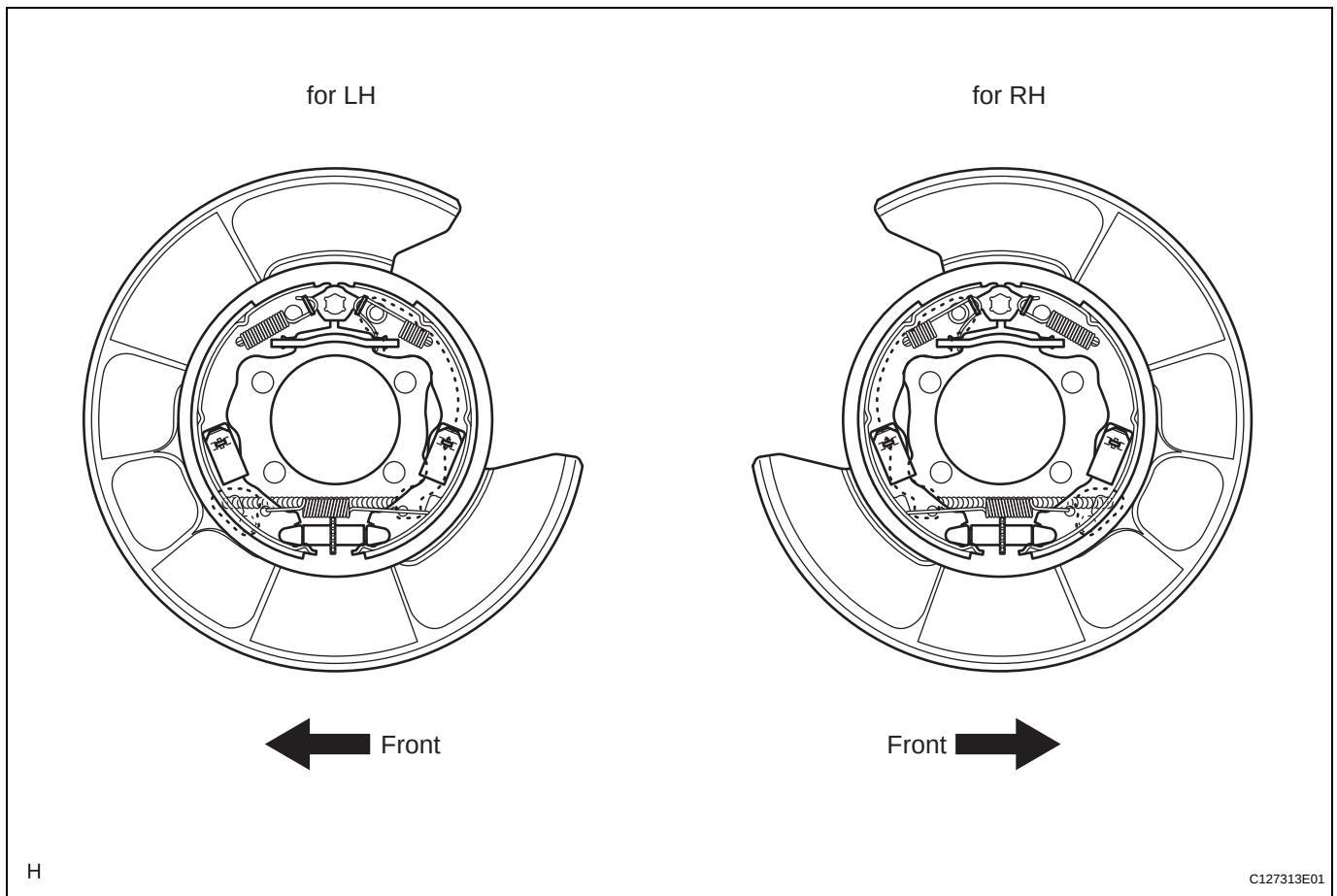


8. INSTALL PARKING BRAKE SHOE RETURN TENSION SPRING (for Upper Side)

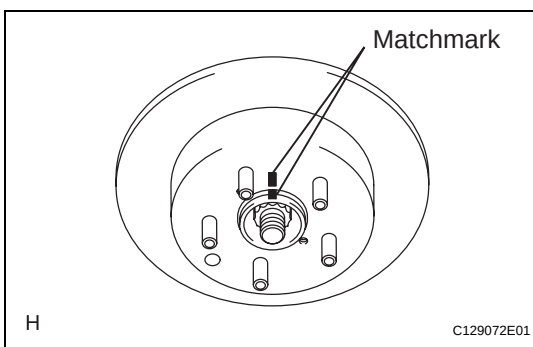
- (a) Using needle-nose pliers, install the 2 shoe return tension springs.

9. CHECK PARKING BRAKE INSTALLATION

- (a) Check that each part is installed properly.

**NOTICE:**

There should be no oil or grease adhering to the friction surface of the shoe lining and disc.

**10. INSTALL REAR DISC**

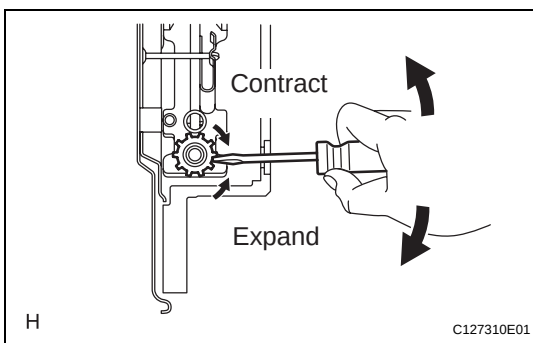
- (a) Align the matchmarks and install the disc.

HINT:

When replacing the disc with new one, select the installation position where the disc has the minimum runout.

11. ADJUST PARKING BRAKE SHOE CLEARANCE

- (a) Temporarily install the hub nuts.



- (b) Remove the shoe adjusting hole plug, and then turn the adjuster to expand the shoe adjuster until the disc locks.
 (c) Turn and contact the shoe adjuster until the disc can rotate smoothly.

Standard return notch:

8 notches

- (d) Check that the shoe has no brake drag.

12. INSTALL PARKING BRAKE SHOE ADJUSTING HOLE PLUG

- (a) Install the shoe adjusting hole plug to the rear disc.

13. CONNECT REAR DISC BRAKE CYLINDER MOUNTING LH (See page [BR-60](#))**14. INSTALL REAR WHEEL**

Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

15. DRIVE VEHICLE

- (a) Pull the parking brake lever with a force of 147 N (15 kgf, 33 lbf).
- (b) Drive the vehicle at approximately 50 km/h (31 mph) for approximately 400 m (0.25 miles).

NOTICE:

Drive the vehicle on a safe, level and dry road.

- (c) Repeat the above steps 2 or 3 times.

16. CHECK PARKING BRAKE LEVER TRAVEL (See page [PB-1](#))**17. ADJUST PARKING BRAKE LEVER TRAVEL (See page [PB-2](#))**

PARKING BRAKE SYSTEM

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Parking brake system

Symptom	Suspected area	See page
Parking brake drags	1. Parking brake lever travel (adjustment necessary)	PB-1
	2. No. 1 parking brake cable (sticking)	PB-4
	3. No. 2 parking brake cable (sticking)	PB-8
	4. No. 3 parking brake cable (sticking)	PB-8
	5. Parking brake shoe clearance (adjustment necessary)	PB-15
	6. Shoe return tension spring (damaged)	PB-13

ADJUSTMENT

1. CHECK PARKING BRAKE LEVER TRAVEL

- (a) Pull the lever upward with a force of approximately 200 N (20 kgf, 44 lbf) and count the number of clicks.

OK:

7 to 9 clicks (without rear brake dragging)

2. REMOVE UPPER REAR CONSOLE PANEL SUB-ASSEMBLY (See page [IP-19](#))

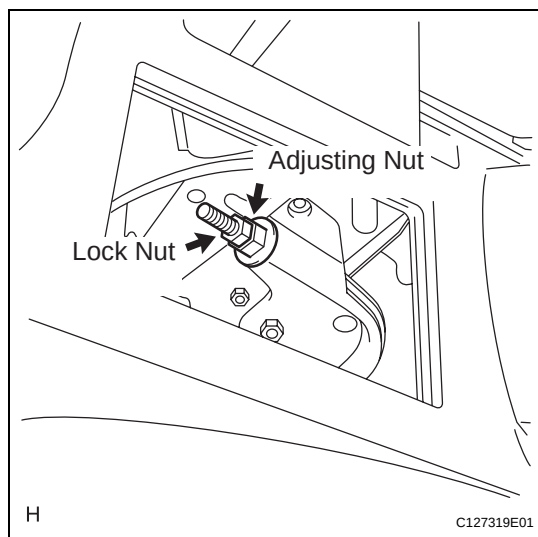
3. LOOSEN LOCK NUT AND NO. 1 WIRE ADJUSTING NUT

4. REMOVE REAR WHEEL

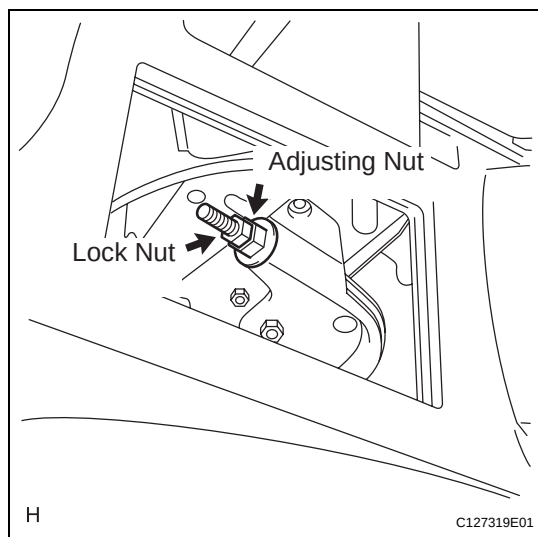
5. ADJUST PARKING BRAKE SHOE CLEARANCE (See page [PB-17](#))

6. INSTALL REAR WHEEL

Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)



PB



7. ADJUST PARKING BRAKE LEVER TRAVEL

- (a) Turn the No. 1 wire adjusting nut until the lever travel is correct.

OK:

7 to 9 clicks (without rear brake dragging)

<Lever pulling force: approximately 200 N (20 kgf, 44 lbf)>

- (b) Tighten the lock nut.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

- (c) Operate the parking brake lever 3 to 4 times, and check the parking brake lever travel.

OK:

7 to 9 clicks (without rear brake dragging)

<Lever pulling force: approximately 200 N (20 kgf, 44 lbf)>

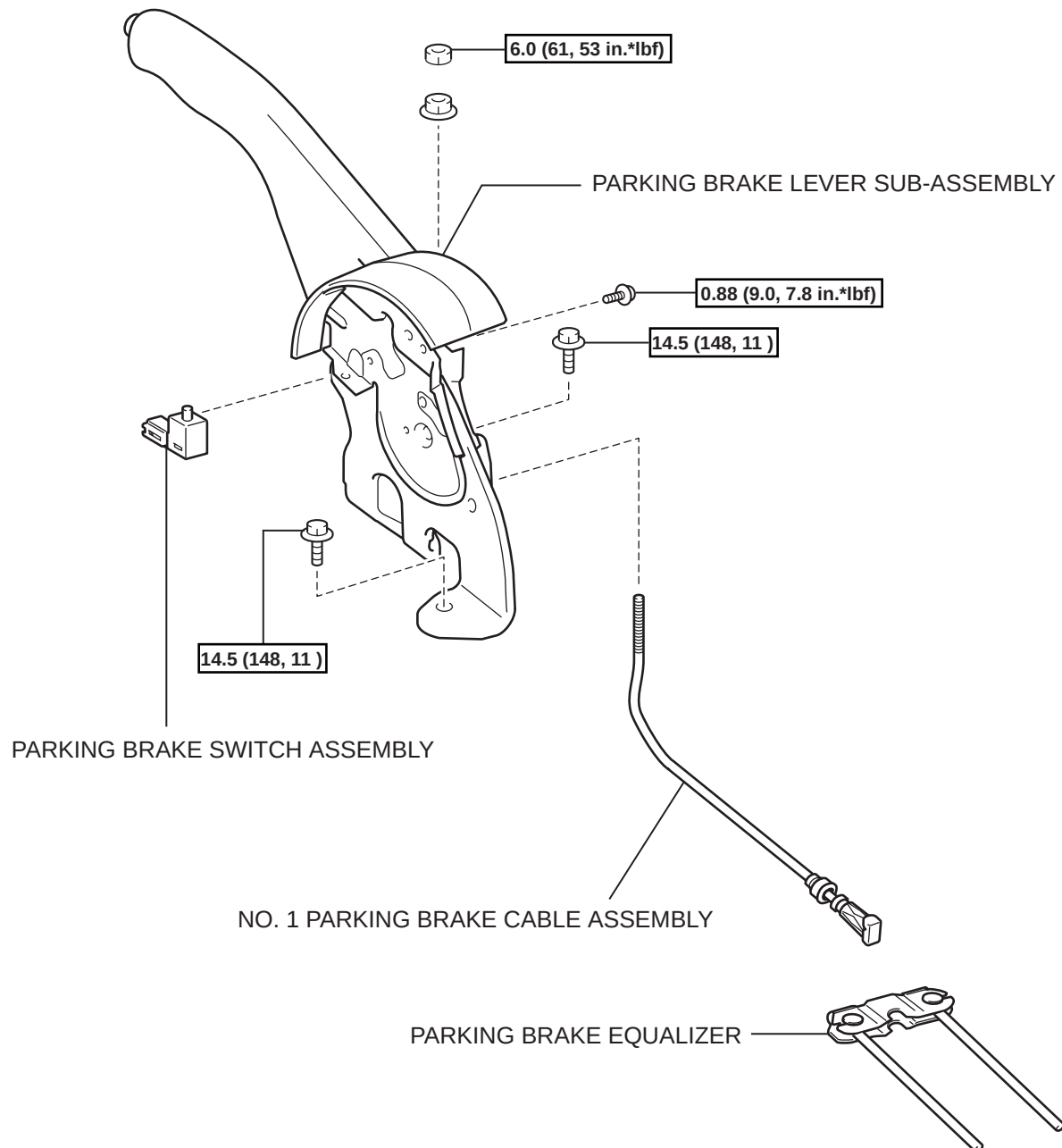
- (d) When operating the parking brake lever, check that the brake warning light illuminates at the first click.

Standard condition:

Brake warning light always illuminates at the first click.

PARKING BRAKE LEVER

COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque

PB

ON-VEHICLE INSPECTION

1. CHECK PARKING BRAKE SWITCH ASSEMBLY

- (a) Remove the rear console box (see page [IP-16](#)).

HINT:

Refer to the procedures from the removal of the No. 1 console upper panel garnish up until the removal of the rear console box sub-assembly.

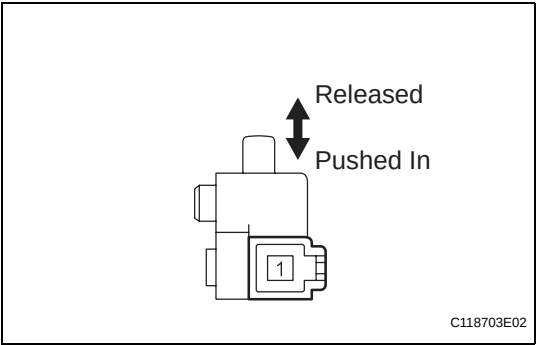
- (b) Disconnect the parking brake switch connector.

- (c) Measure the resistance of the switch.

Standard resistance

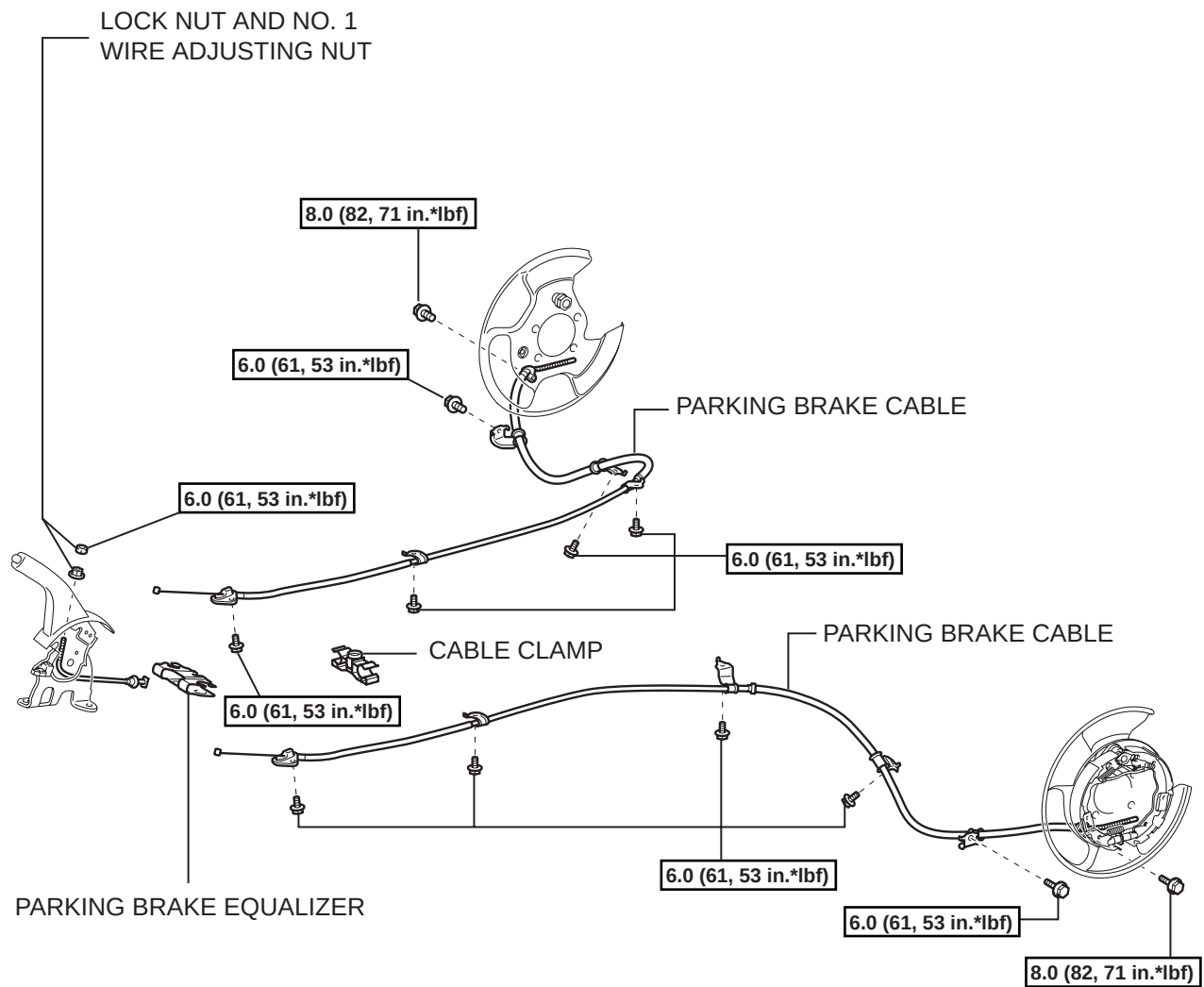
Tester Connection	Condition	Specified Condition
1 - Body ground	Parking brake switch ON (Switch pin released)	Below 1 Ω
1 - Body ground	Parking brake switch OFF (Switch pin pushed in)	10 k Ω or higher

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



PARKING BRAKE CABLE

COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque

PB

REMOVAL

1. REMOVE REAR CONSOLE BOX SUB-ASSEMBLY

- (a) Remove the rear console box (see page [IP-16](#)).

HINT:

Refer to the procedures from the removal of the No. 1 console upper panel garnish up until the removal of the rear console box sub-assembly.

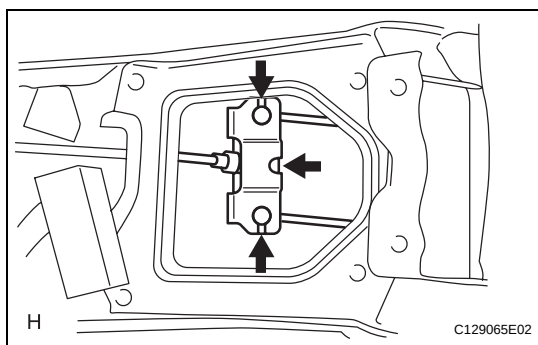
2. LOOSEN LOCK NUT AND NO. 1 WIRE ADJUSTING NUT (See page [PB-1](#))

3. REMOVE PARKING BRAKE EQUALIZER

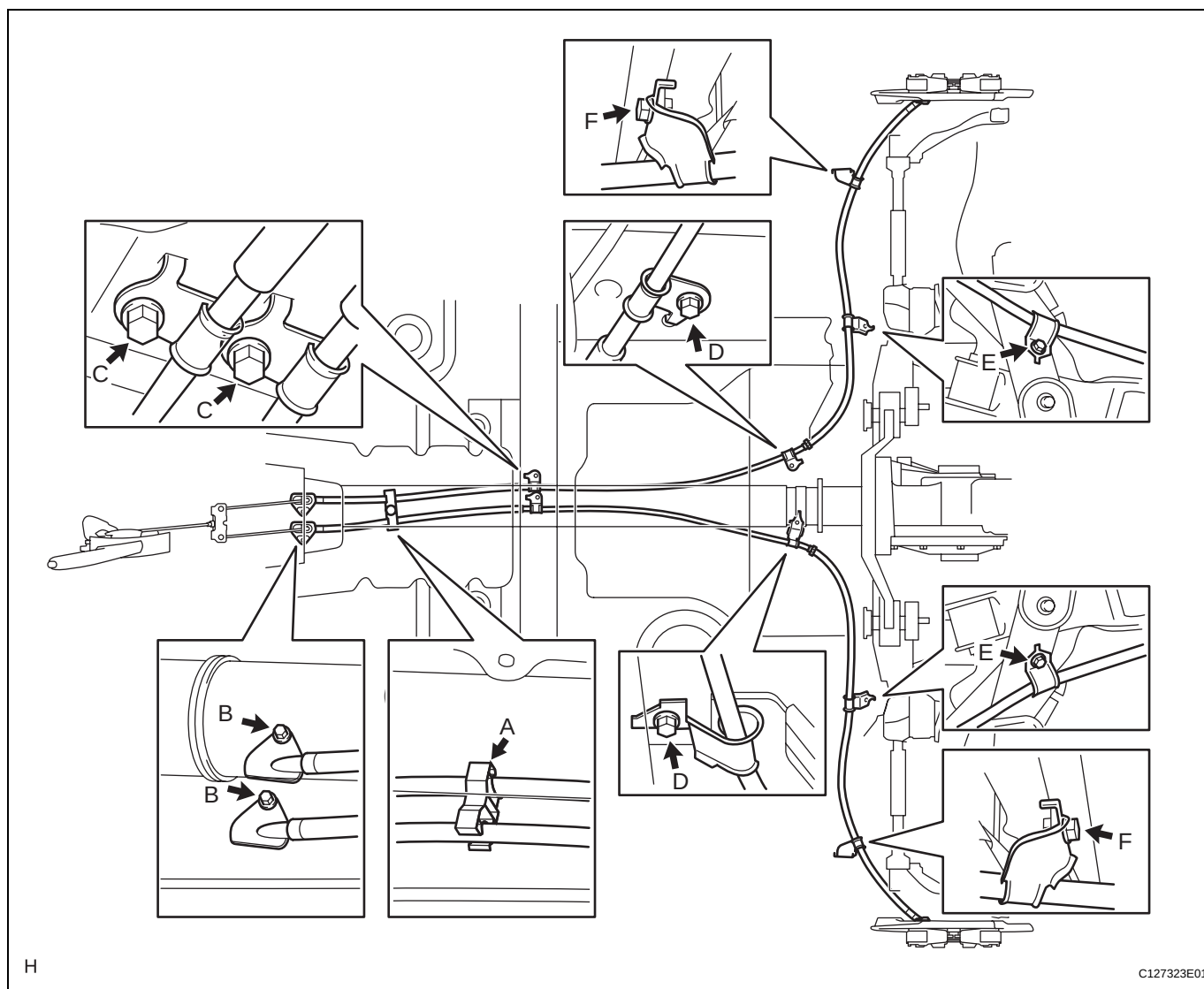
- (a) Disconnect the 3 cable ends and then remove the equalizer.

4. REMOVE REAR WHEEL

5. REMOVE PARKING BRAKE CABLE



PB

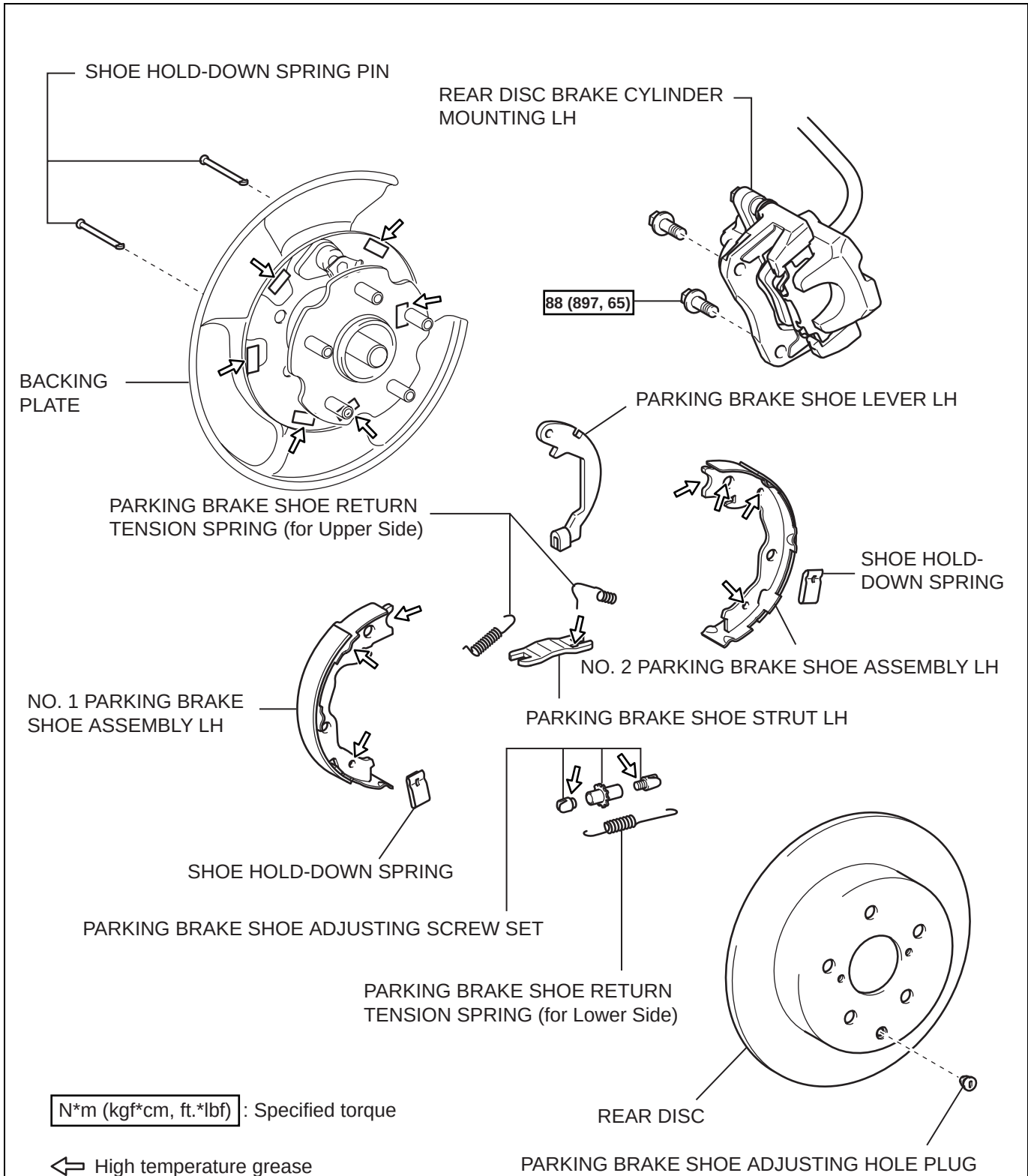


- (a) Remove the cable clamp (labeled A) from the body.

- (b) Remove the casing cap bolt (labeled B) from the body.
- (c) Remove the clamp bolt (labeled C) from the body.
- (d) Remove the clamp bolt (labeled D) from the crossmember.
- (e) Remove the clamp bolt (labeled E) from the rear suspension crossmember.
- (f) Remove the clamp bolt (labeled F) from the trailing arm.
- (g) Disconnect the cable from the parking brake shoe lever and backing plate.
 - (1) Disconnect the cable from the lever (see page [PB-13](#)).
 - (2) Remove the bolt and disconnect the cable from the backing plate.

PARKING BRAKE ASSEMBLY

COMPONENTS



DISASSEMBLY

HINT:

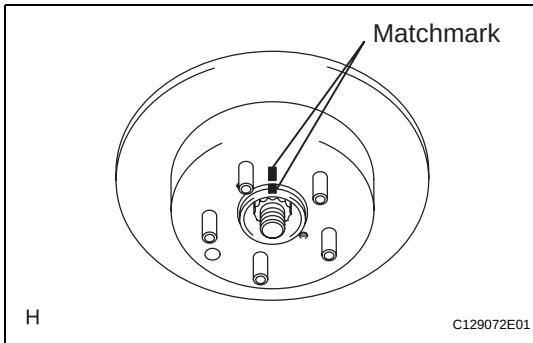
- Use the same procedures for the LH side and RH side.
- The procedures listed below are for the LH side.

1. REMOVE REAR WHEEL

2. DISCONNECT REAR DISC BRAKE CYLINDER MOUNTING LH (See page [BR-55](#))

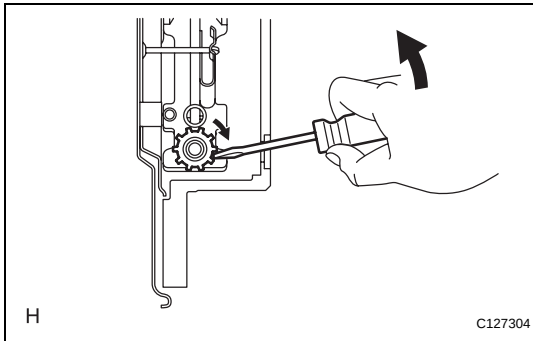
3. REMOVE PARKING BRAKE SHOE ADJUSTING HOLE PLUG

- (a) Remove the shoe adjusting hole plug from the rear disc.

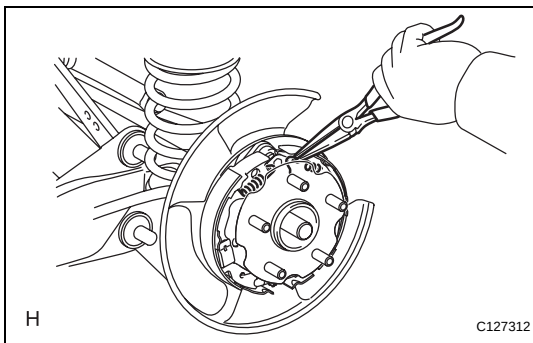


4. REMOVE REAR DISC

- (a) Put matchmarks on the disc and axle hub.
(b) Release the parking brake.



- (c) Turn the shoe adjuster until the disc turns freely, and then remove the disc.
(d) Install the shoe adjusting hole plug to the disc.



5. REMOVE PARKING BRAKE SHOE RETURN TENSION SPRING (for Upper Side)

- (a) Using needle-nose pliers, remove the 2 shoe return tension springs.

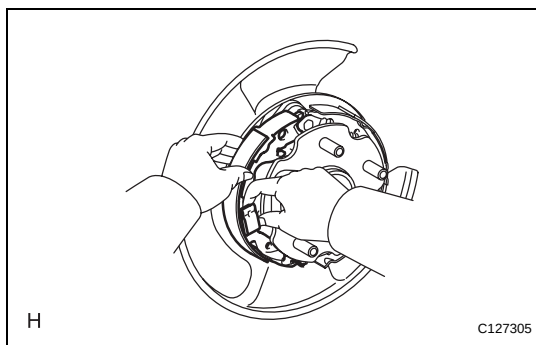
6. REMOVE PARKING BRAKE SHOE STRUT LH

7. REMOVE PARKING BRAKE SHOE RETURN TENSION SPRING (for Lower Side)

- (a) Using needle-nose pliers, remove the tension spring.

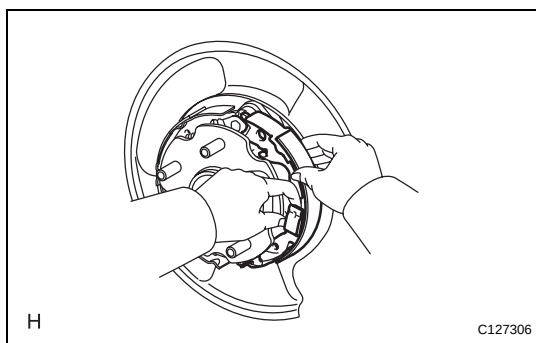
8. REMOVE PARKING BRAKE SHOE ADJUSTING SCREW SET

- (a) Remove the screw set.



9. REMOVE NO. 1 PARKING BRAKE SHOE ASSEMBLY LH

- (a) Press the shoe hold-down spring to remove the pin, shoe hold-down spring and shoe.



10. REMOVE NO. 2 PARKING BRAKE SHOE ASSEMBLY LH

- (a) Slide the shoe to remove the shoe hold-down spring, pin and shoe.
- (b) Disconnect the parking brake cable from the parking brake shoe lever.

11. REMOVE PARKING BRAKE SHOE LEVER LH

INSPECTION

1. CHECK BRAKE DISC INSIDE DIAMETER

- (a) Using a drum gauge or equivalent, measure the inside diameter of the disc.

Standard inside diameter:

172 mm (6.77 in.)

Maximum inside diameter:

173 mm (6.81 in.)

If the inside diameter is greater than the maximum, replace the disc.

2. CHECK PARKING BRAKE SHOE LINING THICKNESS

- (a) Using a ruler, measure the shoe lining thickness.

Standard thickness:

3.5 mm (0.138 in.)

Minimum thickness:

1.0 mm (0.039 in.)

If the shoe lining thickness is equal to or less than the minimum, replace the brake shoe assembly.

3. CHECK BRAKE DISC AND PARKING BRAKE SHOE LINING FOR PROPER CONTACT

- (a) Apply chalk to the inside surface of the disc. Touch the brake shoe to the disc and check that there is full contact between the brake shoe and disc (white chalk is transferred to the entire brake shoe). If the contact is not as specified, use a shoe grinder to repair the brake shoe, or replace the brake shoe assembly.

