

PUBLISHED: 31-AUG-2017
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

BRAKE CALIPER (G1509070)

REMOVAL AND INSTALLATION

70.55.25	HOUSING ASSEMBLY - BRAKE CALIPER - REAR - EACH - RENEW	ALL DERIVATIVES	1.3	USED WITHINS
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GENERAL EQUIPMENT

EQUIPMENT NAME
Land Rover diagnostic equipment

PART(S)


STEP	PART NAME	QUANTITY
Installation Step 1	Electric park brake actuator fitting kit	1
Installation Step 3	Brake caliper hose washer(s)	1

REMOVAL



WARNING:

If the brake pad wear warning light has been activated, a new brake pad wear sensor must be installed.


 **NOTE:**

- Some variation in the illustrations may occur, but the essential information is always correct.
- Some components shown removed for clarity.

1. Connect the diagnostic tool and set the electronic park brake (EPB) to the maintenance position.

General Equipment: [Land Rover diagnostic equipment](#)


2.

 **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electric Park Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

3.

 **NOTE:**

This step is only required if the vehicle has no battery power.

Refer to: Electric Park Brake Release When the Vehicle Has No Electrical Power (206-05 Parking Brake and Actuation, General Procedures).

4.

 **WARNING:**


Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

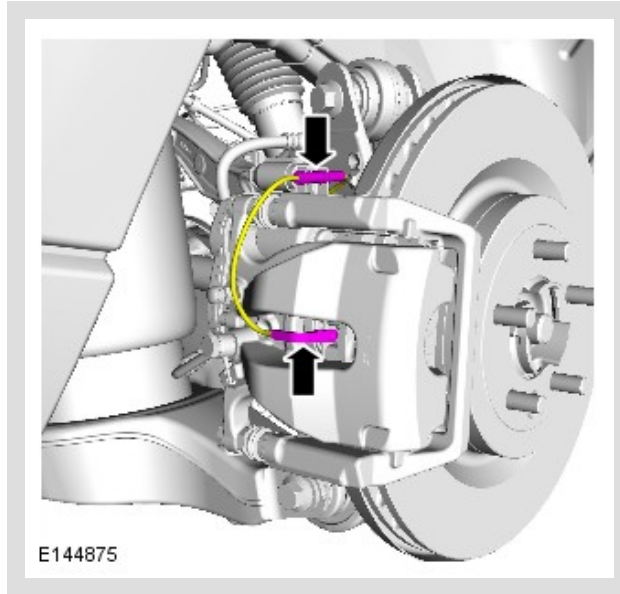
5. Remove the wheel and tire.

Refer to: Wheel and Tire - TDV6 3.0L Diesel /V6 S/C 3.0L Petrol /INGENIUM I4 2.0L Diesel (204-04 Wheels and Tires, Removal and Installation).

6.

 NOTE:

The brake pad wear indicator sensor is easily damaged. Do not use a lever to remove the sensor. Use fingers only.



Remove and Inspect the brake pad wear sensor for signs of wear or damage.
Install a new sensor if necessary.

7.



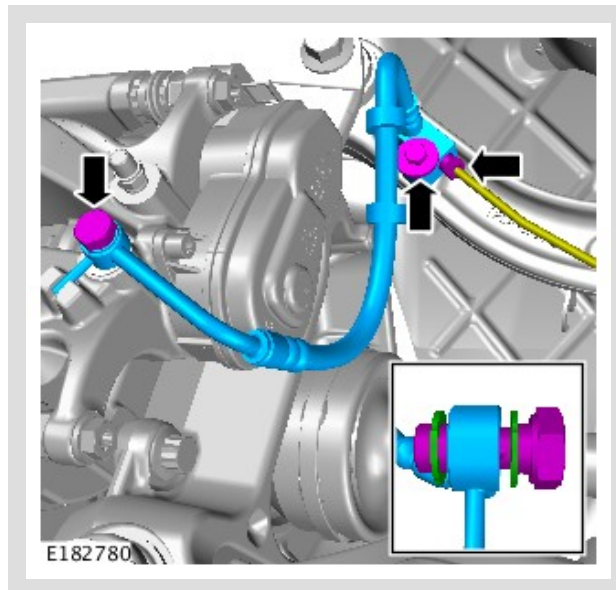
WARNING:

Be prepared to collect escaping fluids.



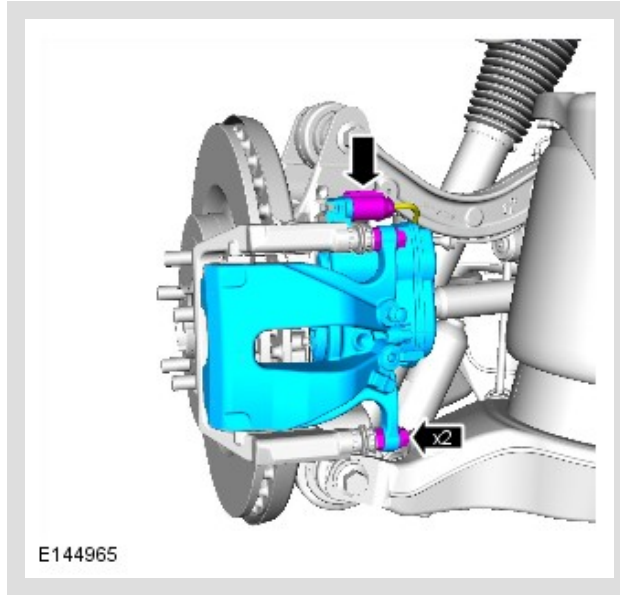
CAUTION:

- Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean.
- Using a suitable hose clamp, clamp the brake hose prior to removal.



Remove the brake hose.

8.



- Disconnect the electrical connector.
 - Remove the brake caliper.
-

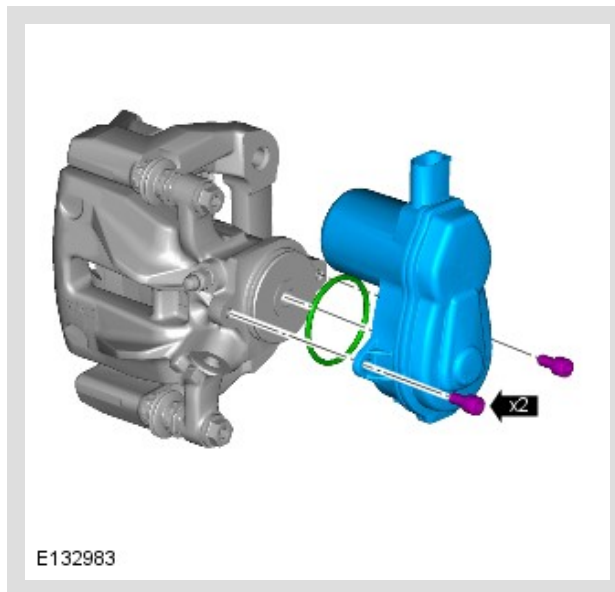
9.

⚠ CAUTION:

Discard the seal.

⚠ NOTE:

Do not disassemble further if the component is removed for access only.



INSTALLATION

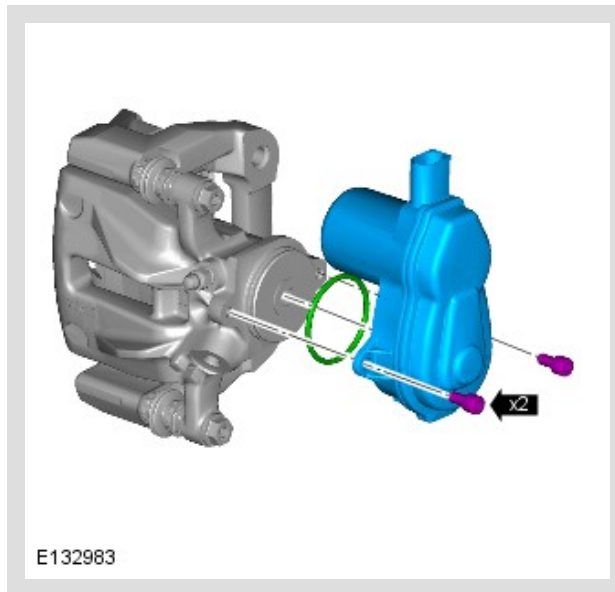
1.

⚠ CAUTION:

Install a new O-ring seal.

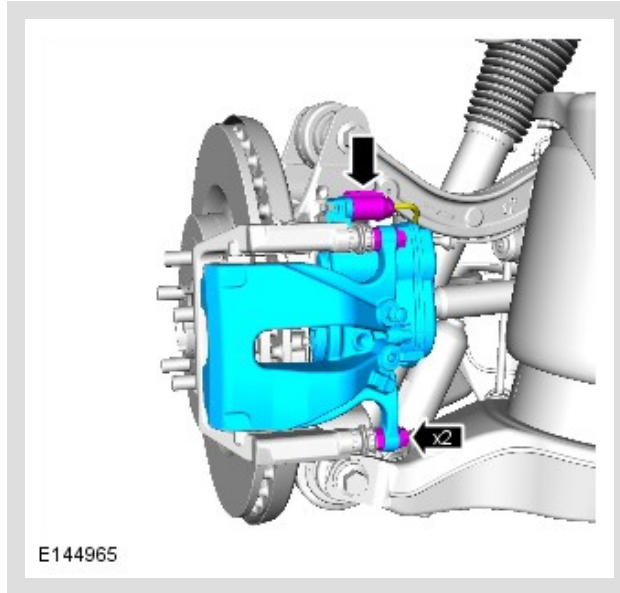
△ NOTE:

Only carry out this step if previously removed.



Renew Part: [Electric park brake actuator fitting kit](#) Quantity: 1 .

2.

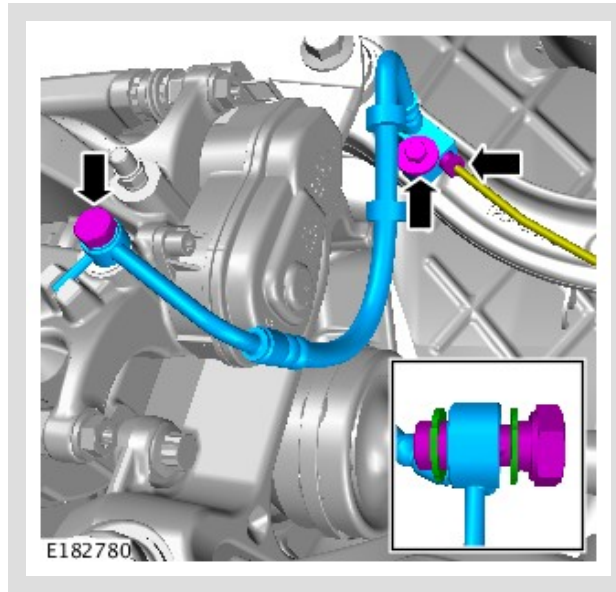


- Install the brake caliper.
Torque: 35 Nm
 - Connect the electrical connector.
-

3.

⚠ CAUTION:

Inspect the brake hose sealing washers for signs of damage, if damage is present install new sealing washers.



- Install the brake hose.


Renew Part: Brake caliper hose washer(s) Quantity: 1 .

Torque:

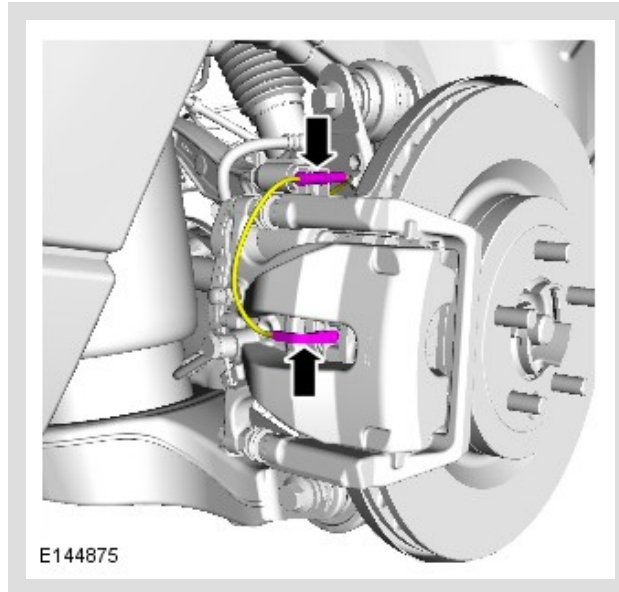
Brake pipe banjo bolt **32 Nm**

Brake pipe union **16 Nm**

4.

 NOTE:

Right side only.



Install the brake pad wear indicator sensor.

5. Bleed the brake system.

Refer to: Brake System Bleeding - Vehicles With: Standard Brakes (206-00 Brake System - General Information, General Procedures).

6. Install the wheel and tire.

Refer to: Wheel and Tire - TDV6 3.0L Diesel /V6 S/C 3.0L Petrol /INGENIUM I4 2.0L Diesel (204-04 Wheels and Tires, Removal and Installation).

7. Calibrate the electric parking brake (EPB) using the diagnostic tool.

General Equipment: [Land Rover diagnostic equipment](#)


8.

 NOTE:

This step is only required if the diagnostic tool is not available.

Refer to: Electric Park Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

9.

 **NOTE:**

This step is only required if the vehicle has no battery power.

Refer to: Electric Park Brake Release When the Vehicle Has No Electrical Power (206-05 Parking Brake and Actuation, General Procedures).

PUBLISHED: 28-APR-2017
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

BRAKE DISC (G1885321)

REMOVAL AND INSTALLATION

70.12.13	DISCS - REAR - SET - RENEW	ALL DERIVATIVES	1.1	USED WITHINS	
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70.12.33	DISC - REAR - EACH - RENEW	ALL DERIVATIVES	1	USED WITHINS	
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PART(S)

STEP	PART NAME	QUANTITY
Installation Step 3	Brake caliper carrier bolt(s)	1
Installation Step 5	Brake caliper carrier bolt(s)	1

REMOVAL




WARNING:

If installing a new brake disc, install new brake pads.



CAUTION:


Brake discs must be renewed in pairs.

 **NOTE:**

The brake pad wear warning indicator sensor must be replaced each time the brake pads are serviced.

1. Connect the diagnostic tool and set the electronic park brake (EPB) to the maintenance position.


2.

 **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

3.

 **NOTE:**

This step is only required if the vehicle has no battery power.

Refer to: Electronic Parking Brake Release When the Vehicle Has No Electrical Power (206-05 Parking Brake and Actuation, General Procedures).

4.

 **WARNING:**

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

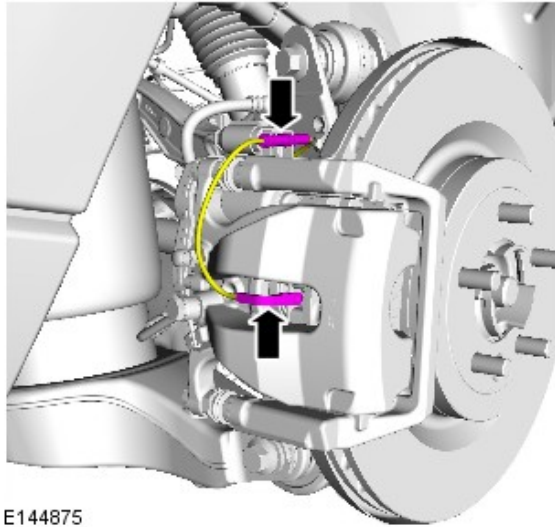
5. Remove the wheel and tire.

Refer to: Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol (204-04 Wheels and Tires, Removal and Installation).

6.

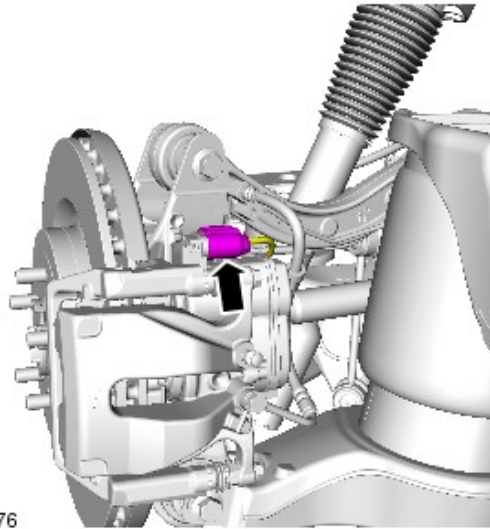
△ NOTE:

RH side only.



E144875

7.

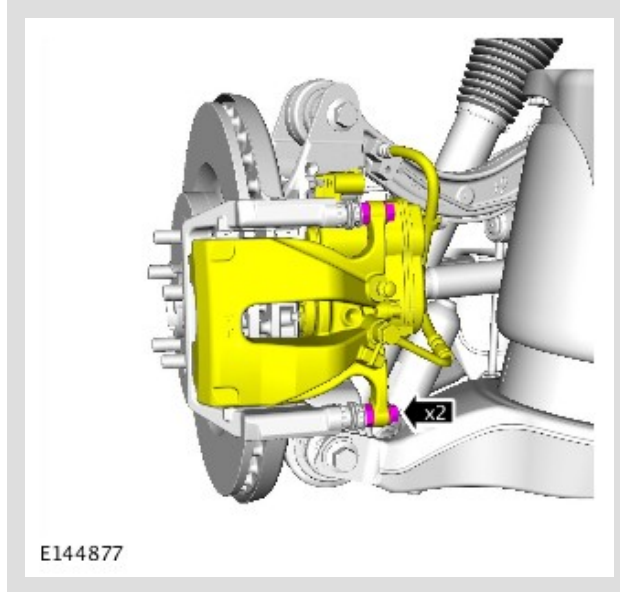


E144876

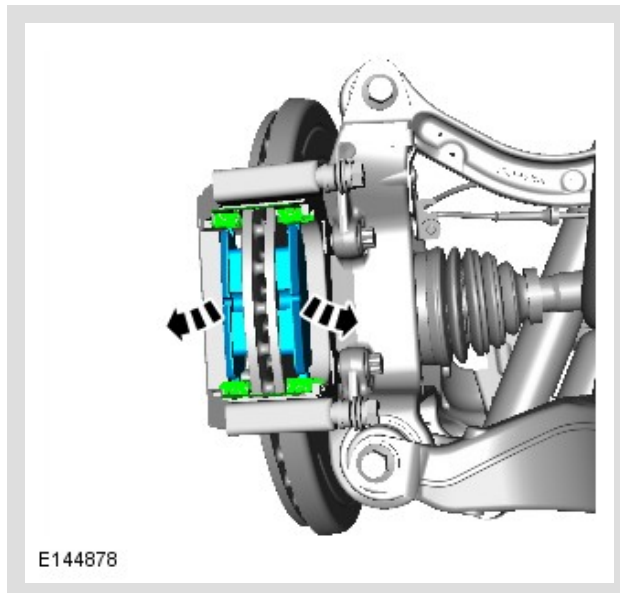
8.

⚠ CAUTION:

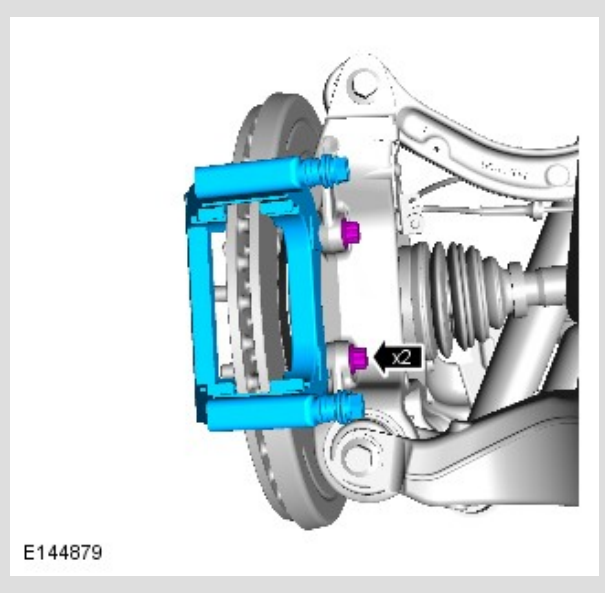
Discard the bolts.



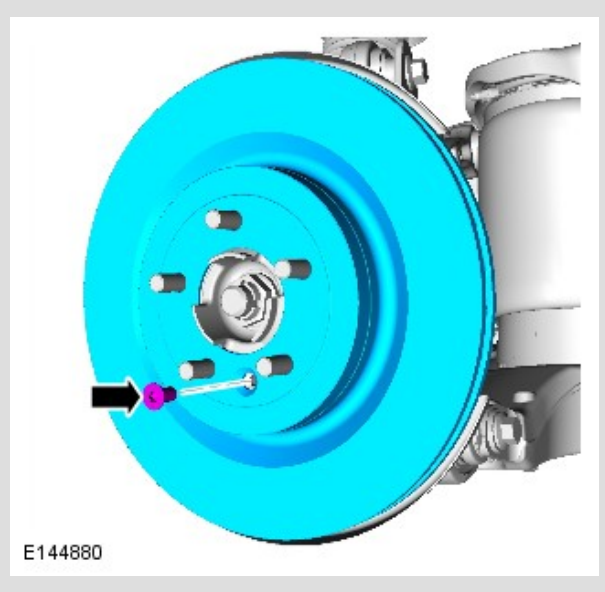
9.



10.



11.

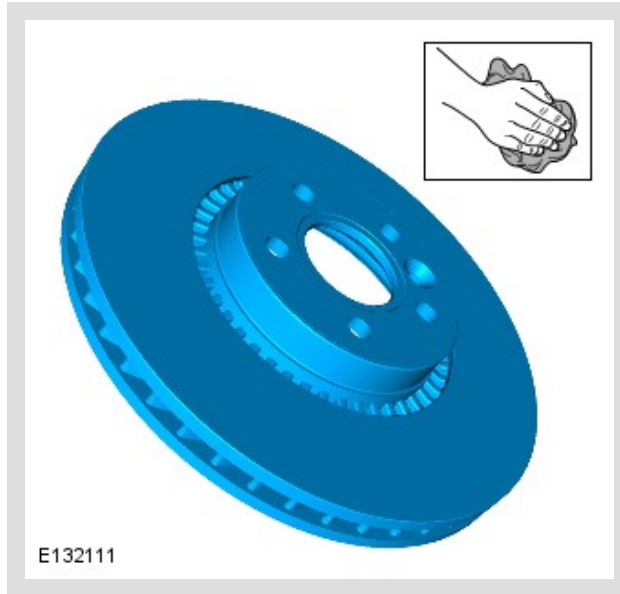


INSTALLATION

1.

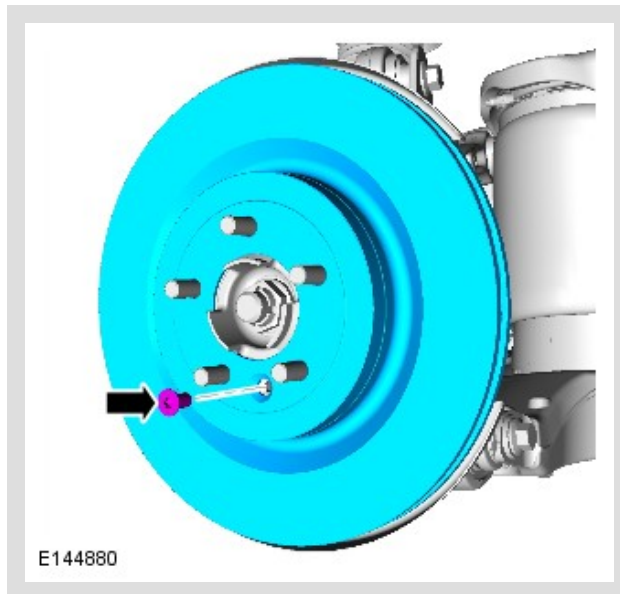
⚠ CAUTION:

Make sure that the mating faces are clean and free of foreign material.



Clean the brake disc using brake cleaning fluid.

2.

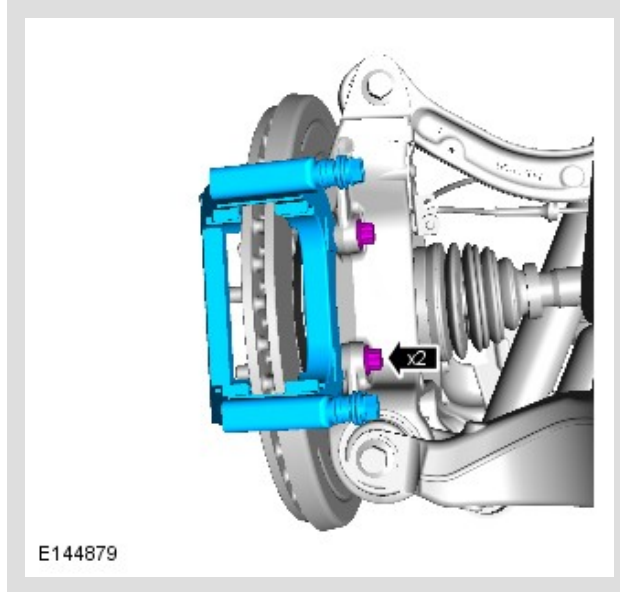


Torque: 35 Nm

3.

⚠ CAUTION:

Make sure that new bolts are installed.



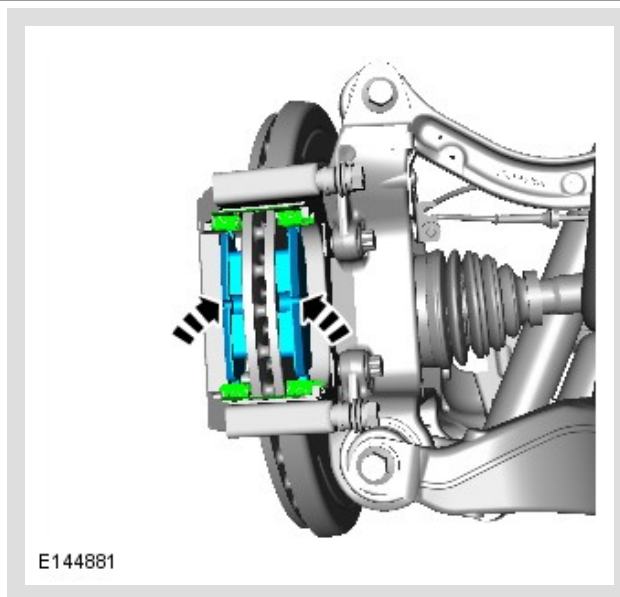
Renew Part: *Brake caliper carrier bolt(s)* Quantity: 1 .

Torque:

Stage 1: 110 Nm

Stage 2: 120°

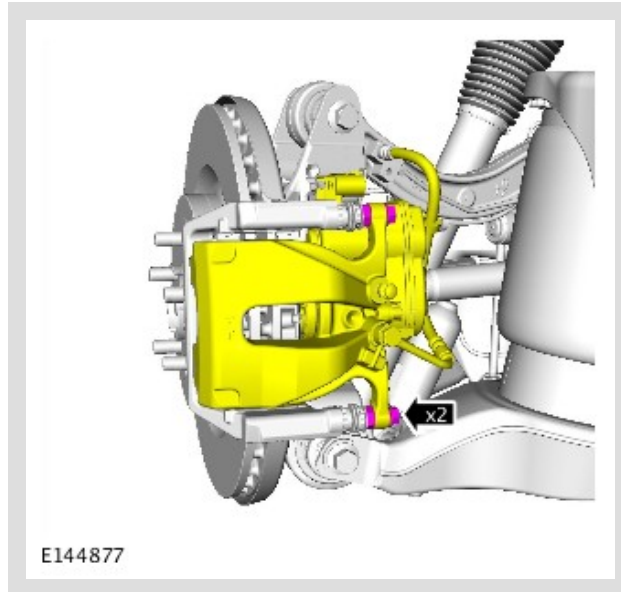
4.



5.

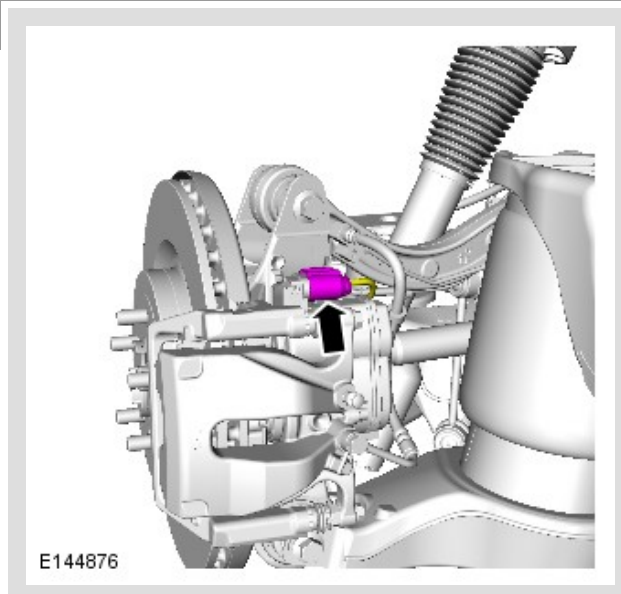
⚠ CAUTION:

Make sure that new bolts are installed.




Renew Part: *Brake caliper carrier bolt(s)* Quantity: *1* .
Torque: **35 Nm**

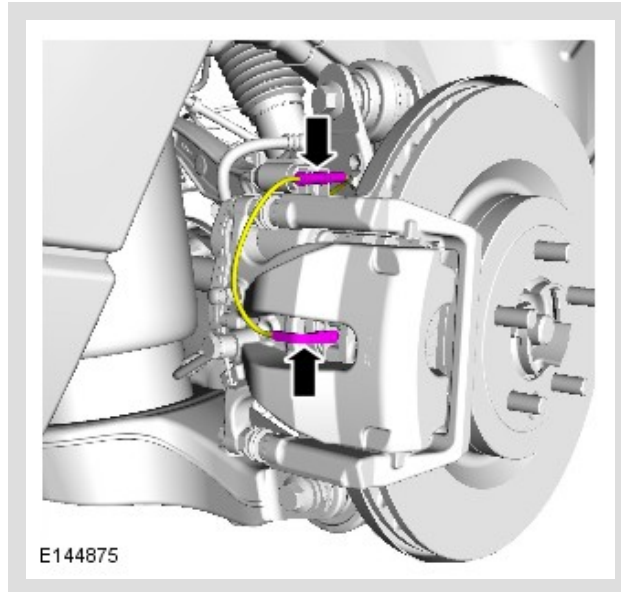
6.



7.

 NOTE:

RH side only.



8. Install the rear wheel.

Refer to: Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol (204-04 Wheels and Tires, Removal and Installation).

9. Depress the brake pedal several times, check the fluid level in the brake fluid reservoir and top-up with brake fluid if necessary.

10. Calibrate the electric parking brake (EPB) using the diagnostic tool.

11.

 NOTE:

This step is only required if the diagnostic tool is not available.

Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

PUBLISHED: 06-NOV-2014
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

BRAKE PADS - VEHICLES WITH: HIGH PERFORMANCE BRAKES (G1821741)

REMOVAL AND INSTALLATION

70.40.03	SHOES /PADS - REAR - SET - RENEW	ALL DERIVATIVES	1	USED WITHINS	
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70.40.02.36	SHOES /PADS - FRONT - SET - RENEW - BREMBO /SPORTS BRAKES FITTED	ALL DERIVATIVES	0.6	USED WITHINS	
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70.40.02	SHOES /PADS - FRONT - SET - RENEW	ALL DERIVATIVES	0.6	USED WITHINS	
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REMOVAL



WARNING:


Brake pads must be renewed in axle sets only. Failure to follow this instruction may result in braking efficiency being impaired.

 **NOTE:**

Some variation in the illustrations may occur, but the essential information is always correct.

1. Connect the diagnostic tool and set the electronic park brake (EPB) to the maintenance position.


2.

 **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electronic Parking Brake (EPB) Service Mode Activation and Deactivation (206-05, General Procedures).

3.

 **NOTE:**

This step is only required if the vehicle has no battery power.

Refer to: Electronic Parking Brake (EPB) Release When the Vehicle Has No Electrical Power (206-05, General Procedures).

4.

 **WARNING:**

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

5. Refer to: Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 5.0L Petrol/V8 S/C 5.0L Petrol (204-04, Removal and Installation).

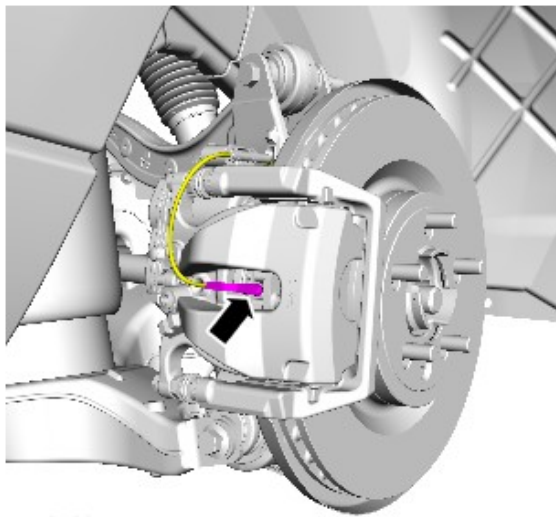
6.

⚠ CAUTION:

The brake pad wear indicator sensor is easily damaged. Do not use a lever to remove the sensor. Use fingers only.

⚠ NOTE:

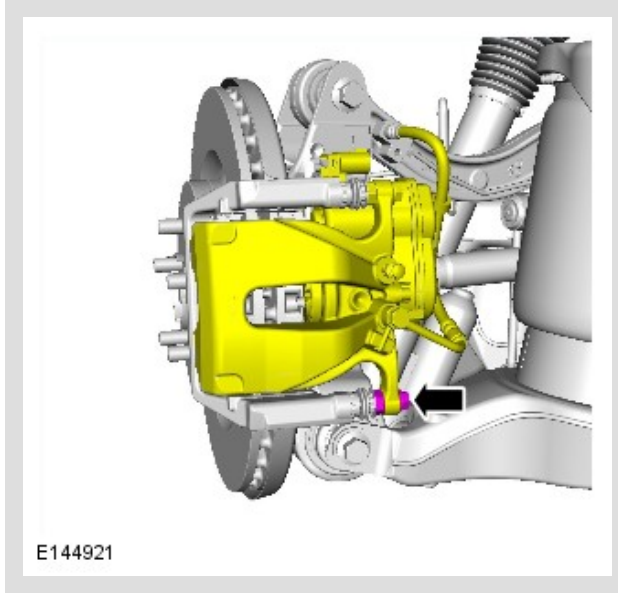
Right side only.



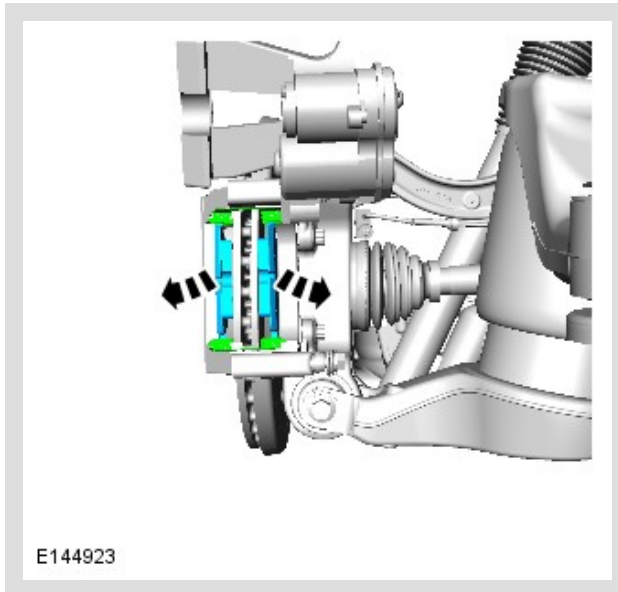
E173189

Inspect the brake pad wear sensor for signs of wear or damage. Install a new sensor if necessary.

7.



8.



9. Repeat the above procedure for the other side.

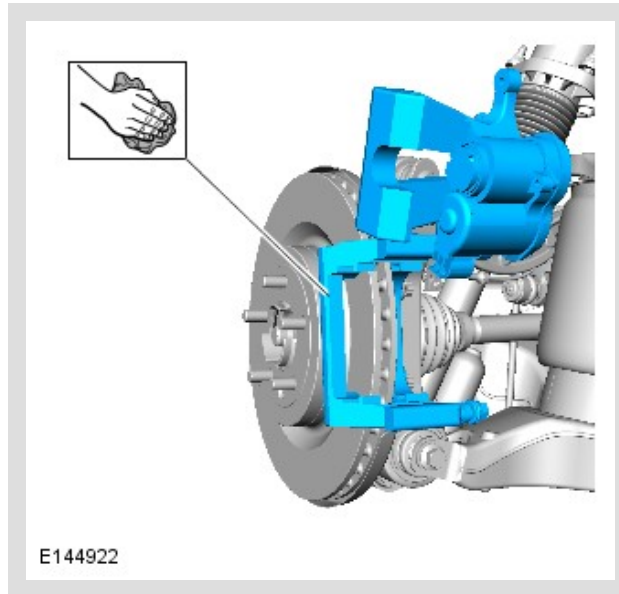
INSTALLATION

1.



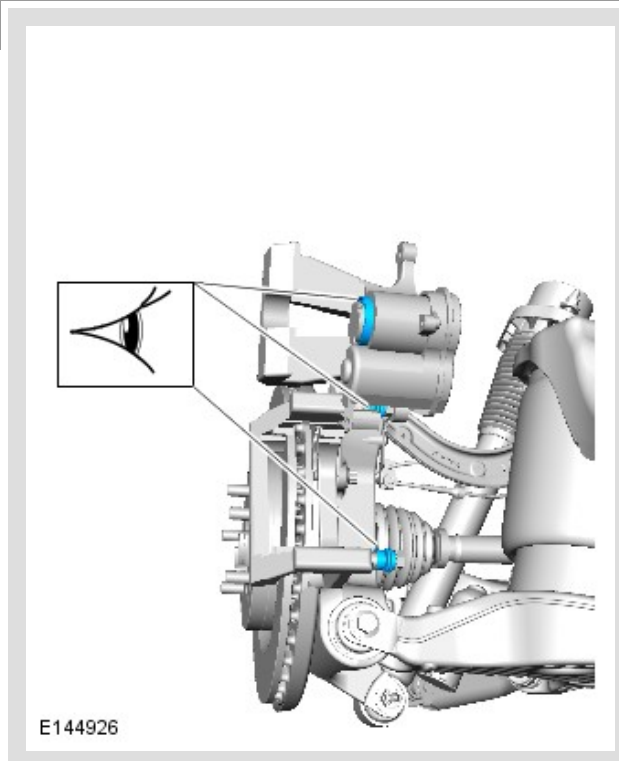
WARNING:

Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.



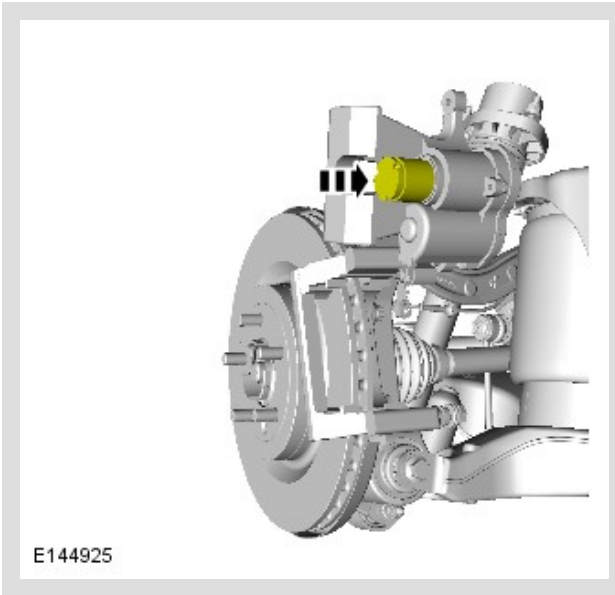
Clean the brake caliper housing and anchor plate using brake cleaning fluid.

2.

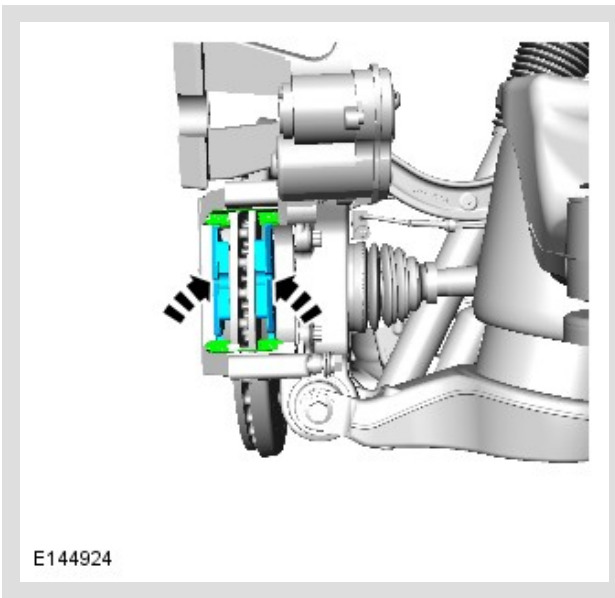


Inspect the caliper piston and slide pin seals for damage.

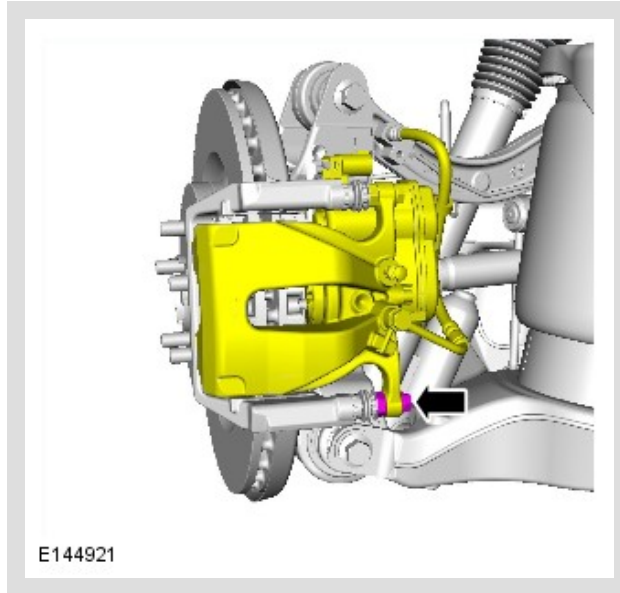
3.



4.




5.

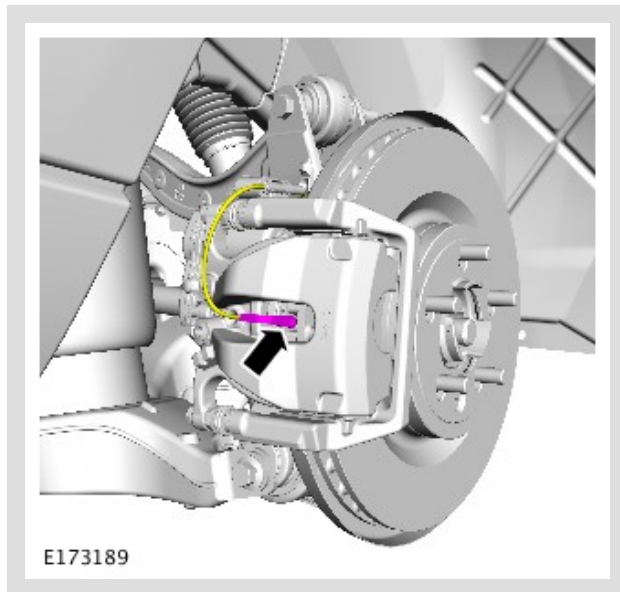


Torque: 35 Nm

6.

 NOTE:

Right side only.




7.

Repeat the above procedure for the other side.

8. Refer to: Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 5.0L Petrol/V8 S/C 5.0L Petrol (204-04, Removal and Installation).

9. Depress the brake pedal several times, check the fluid level in the brake fluid reservoir and top-up with brake fluid if necessary.

10.

 **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electronic Parking Brake (EPB) Service Mode Activation and Deactivation (206-05, General Procedures).

11. Calibrate the electric parking brake (EPB) using the diagnostic tool.

PUBLISHED: 03-AUG-2017
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

BRAKE PADS - VEHICLES WITH: STANDARD BRAKES (G1978103)

REMOVAL AND INSTALLATION

70.40.03	SHOES /PADS - REAR - SET - RENEW	ALL DERIVATIVES	1	USED WITHINS	
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70.40.02.36	SHOES /PADS - FRONT - SET - RENEW - BREMBO /SPORTS BRAKES FITTED	ALL DERIVATIVES	0.6	USED WITHINS	
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70.40.02	SHOES /PADS - FRONT - SET - RENEW	ALL DERIVATIVES	0.6	USED WITHINS	
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REMOVAL




WARNING:

Brake pads must be renewed in axle sets only. Failure to follow this instruction may result in braking efficiency being impaired.

 **CAUTION:**

LH illustration shown, RH is similar.

 **NOTE:**

Some variation in the illustrations may occur, but the essential information is always correct.

1. Connect the diagnostic tool and set the electronic park brake (EPB) to the maintenance position.

2.  **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electric Park Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

3.  **NOTE:**

This step is only required if the vehicle has no battery power.

Refer to: Electric Park Brake Release When the Vehicle Has No Electrical Power (206-05 Parking Brake and Actuation, General Procedures).

4.  **WARNING:**

Make sure to support the vehicle with axle stands.


Raise and support the vehicle.

5. Refer to: Wheel and Tire - TDV6 3.0L Diesel /V6 S/C 3.0L Petrol /INGENIUM I4 2.0L Diesel (204-04 Wheels and Tires, Removal and Installation).

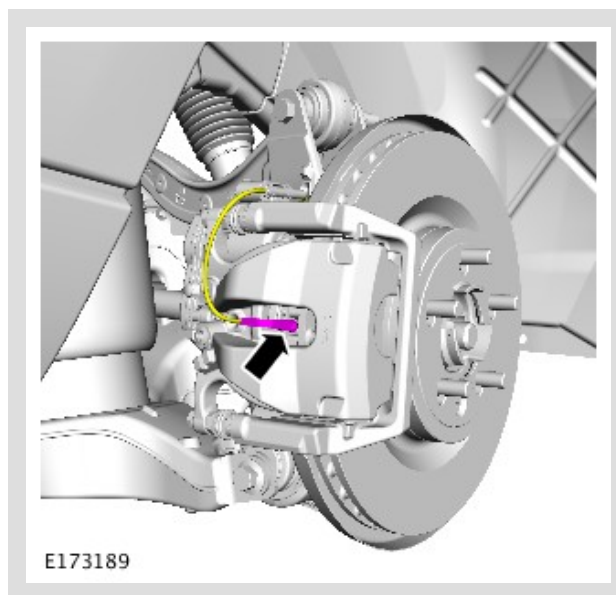
6.

 **CAUTION:**

The brake pad wear indicator sensor is easily damaged. Do not use a lever to remove the sensor. Use fingers only.

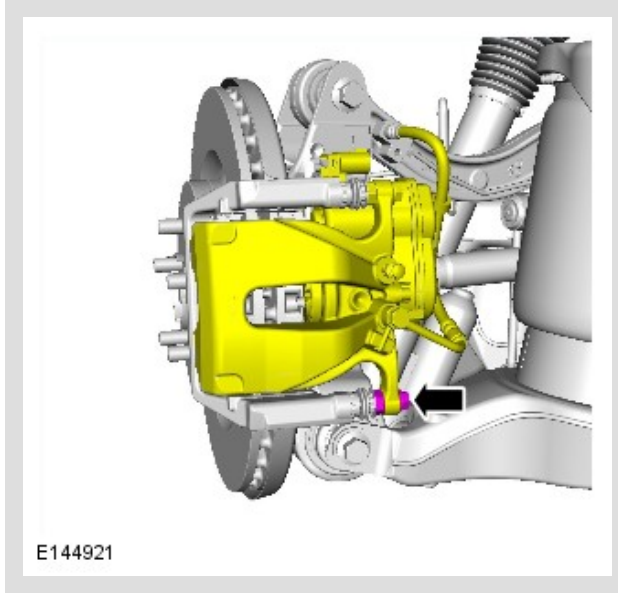
 **NOTE:**

Right side only.

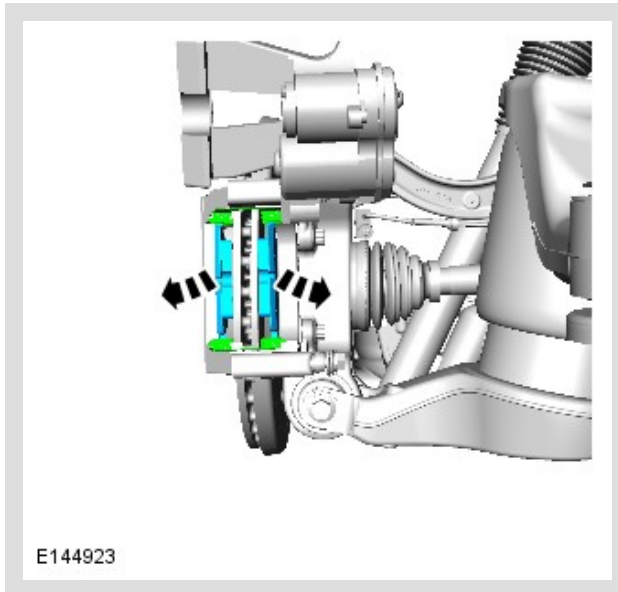


Inspect the brake pad wear sensor for signs of wear or damage. Install a new sensor if necessary.

7.



8.



9. Repeat the above procedure for the other side.

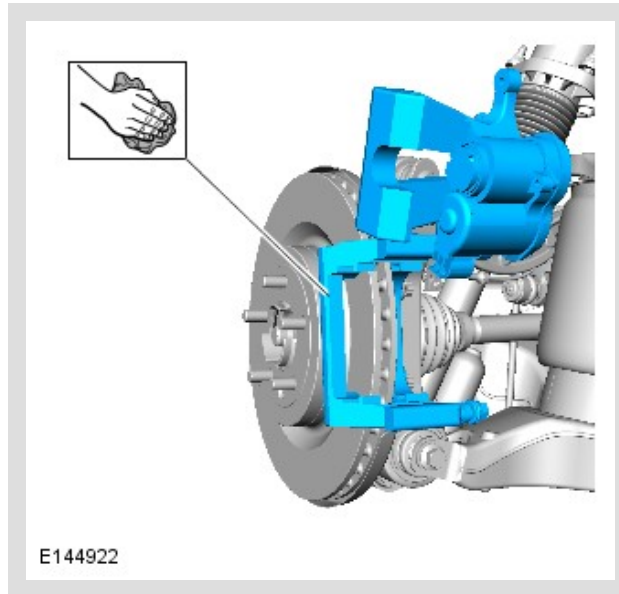
INSTALLATION

1.



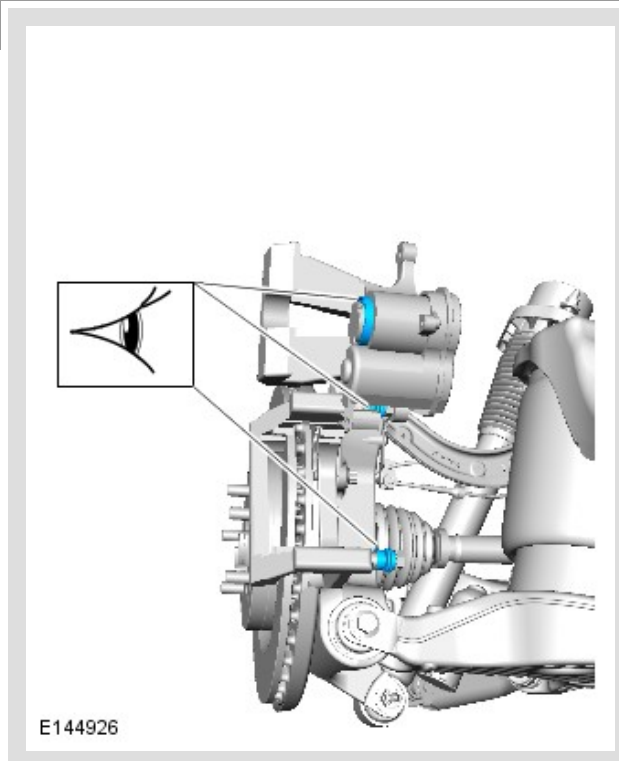
WARNING:

Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.



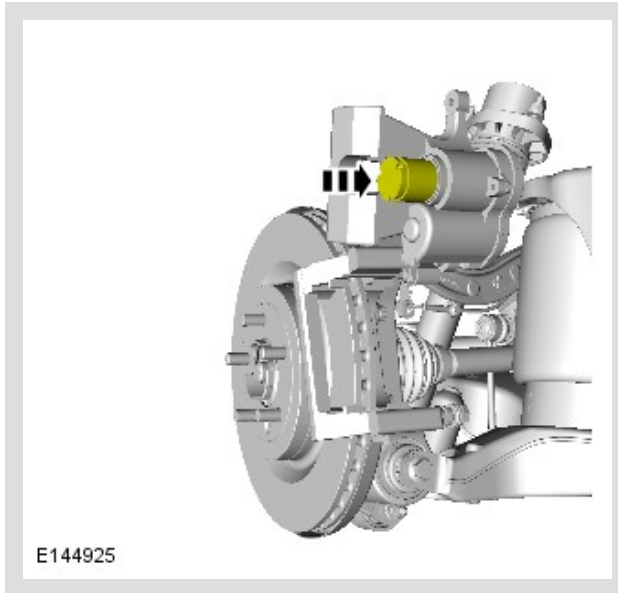
Clean the brake caliper housing and anchor plate using brake cleaning fluid.

2.



Inspect the caliper piston and slide pin seals for damage.

3.

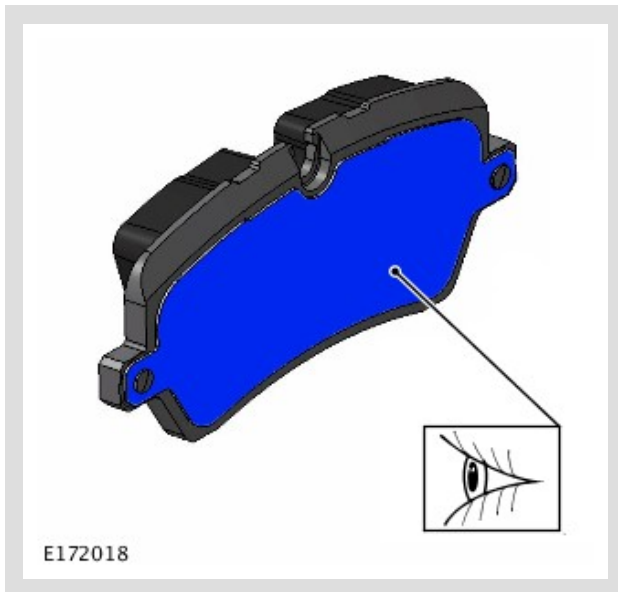


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4.

ⓘ CAUTION:

Make sure that the brake pad with the rubber shim is installed to the inboard side only.



E172018

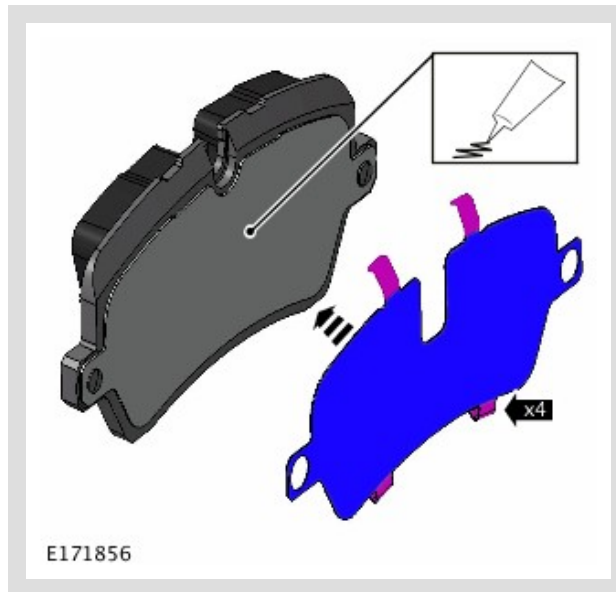
5.

WARNING:

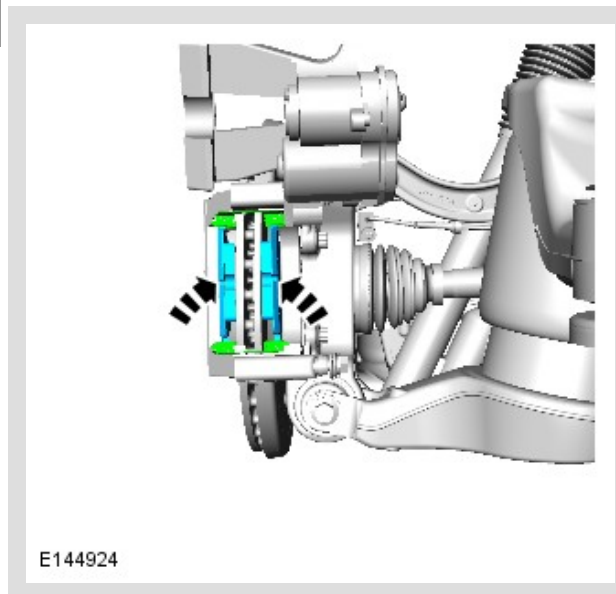
Outboard brake pad only.

CAUTION:

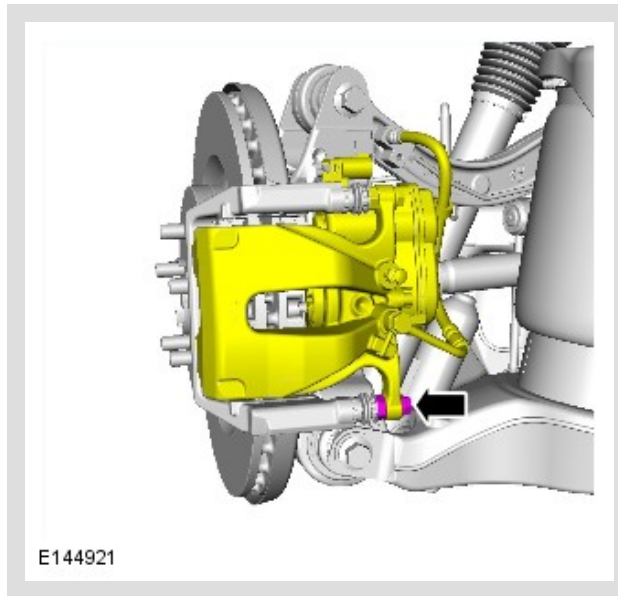
Make sure that the grease is evenly applied across the shim face.



6.




7.

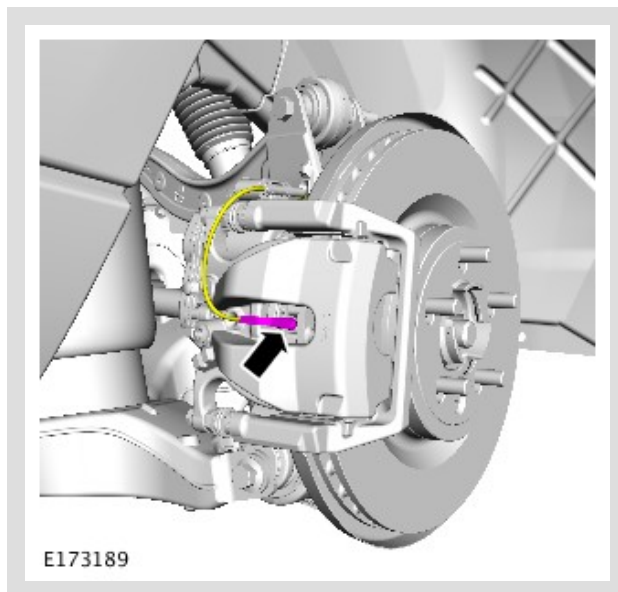


Torque: 35 Nm

8.

 **NOTE:**

Right side only.




9. Repeat the above procedure for the other side.

10. Refer to: Wheel and Tire - TDV6 3.0L Diesel /V6 S/C 3.0L Petrol /INGENIUM I4 2.0L Diesel (204-04 Wheels and Tires, Removal and Installation).

11. Depress the brake pedal several times, check the fluid level in the brake fluid reservoir and top-up with brake fluid if necessary.

12.

 **NOTE:**

This step is only required if the diagnostic tool is not available.

Refer to: Electric Park Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

13. Calibrate the electric parking brake (EPB) using the diagnostic tool.

PUBLISHED: 31-JUL-2012
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

DIAGNOSIS AND TESTING

For additional information.

REFER to: Brake System (206-00, Diagnosis and Testing).

PUBLISHED: 21-NOV-2016
2017.0 DISCOVERY (LR), 206-04

REAR DISC BRAKE

SPECIFICATIONS

Item	Specification
Disc type	Ventilated
Disc diameter:	
Vehicles with Standard brakes	350 mm (13.8 in)
Vehicles with High Performance brakes	365 mm (14.4 in)
Disc thickness:	
New	25.0 mm (0.98 in)
Service limit	marked on the disc
Maximum disc run-out	0.070 mm (0.003 in) with wheel fitted
Caliper type	Sliding pin, single piston
Piston diameter	43.0 mm (1.7 in)
Pad minimum thickness	3.0 mm (0.12 in)
Brake pad wear warning lead:	
Location	Rear right hand brake pad
Activates at	75% of pad life utilised

Torque Specifications

DESCRIPTION	NM	LB-FT
Brake caliper bleed screw	11	8
Brake hose to brake pipe union	16	12
Brake disc retaining bolt	35	26
Brake pipe banjo bolt	32	24
* Brake caliper anchor plate to hub bolts:	110 + 120°	81 + 120°

Brake caliper housing to anchor plate bolts	35	26
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*** New bolts must be installed**