



## 2 Rear brakes

- ⇒ [“2.1 Assembly overview - rear brakes”, page 51](#)
- ⇒ [“2.2 Removing and installing brake pads”, page 53](#)
- ⇒ [“2.3 Removing and installing brake caliper”, page 57](#)
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- ⇒ [“2.5 Removing and installing brake shield plate”, page 61](#)

### 2.1 Assembly overview - rear brakes



#### Note

- ◆ *After replacing the wheel-brake cylinder, brake carrier and the rear brake shoes, forcefully apply the brake pedal once to ensure the brake shoes go into their normal operating position.*
- ◆ *Generally tighten the brake line pipe screws to a tightening torque of 14 Nm.*
- ◆ *Use brake pedal load, e. g. -V.A.G 1869/2-, before removing a brake cylinder, a brake carrier or before separating a brake line from the brake cylinder.*
- ◆ *Already used brake fluid must never be used again.*



#### CAUTION

Use a bleeding bottle, that only comes into contact with the brake fluid, to drain brake fluid from the brake fluid reservoir. Brake fluid is toxic and must never be sucked up by mouth!

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**1 - Protection plate**

- ☐ Removing and installing  
⇒ [“2.5 Removing and installing brake shield plate”, page 61](#)
- ☐ Assignment ⇒ Electronic Catalogue of Original Parts

**2 - Screw**

- ☐ 12 Nm

**3 - Brake disc**

- ☐ Removing and installing  
⇒ [“2.4 Removing and installing brake disc”, page 61](#)
- ☐ Dimensions and wear limit  
⇒ [“3.1 Technical data for brakes”, page 3](#)
- ☐ always replace axle-wise
- ☐ Do not use force to separate the brake discs from the wheel hub, if necessary use rust solvent; as you could otherwise damage the brake discs.
- ☐ Assignment ⇒ Electronic Catalogue of Original Parts

**4 - Screw**

- ☐ 8 Nm

**5 - Brake caliper**

- ☐ do not unscrew the brake hose when replacing the brake pad
- ☐ Removing and installing ⇒ [“2.3 Removing and installing brake caliper”, page 57](#)
- ☐ Observe the instructions for changing the pad  
⇒ [“2.2.1 Changing the brake pads of the rear brake - Mounting instructions”, page 53](#)

**6 - Screw**

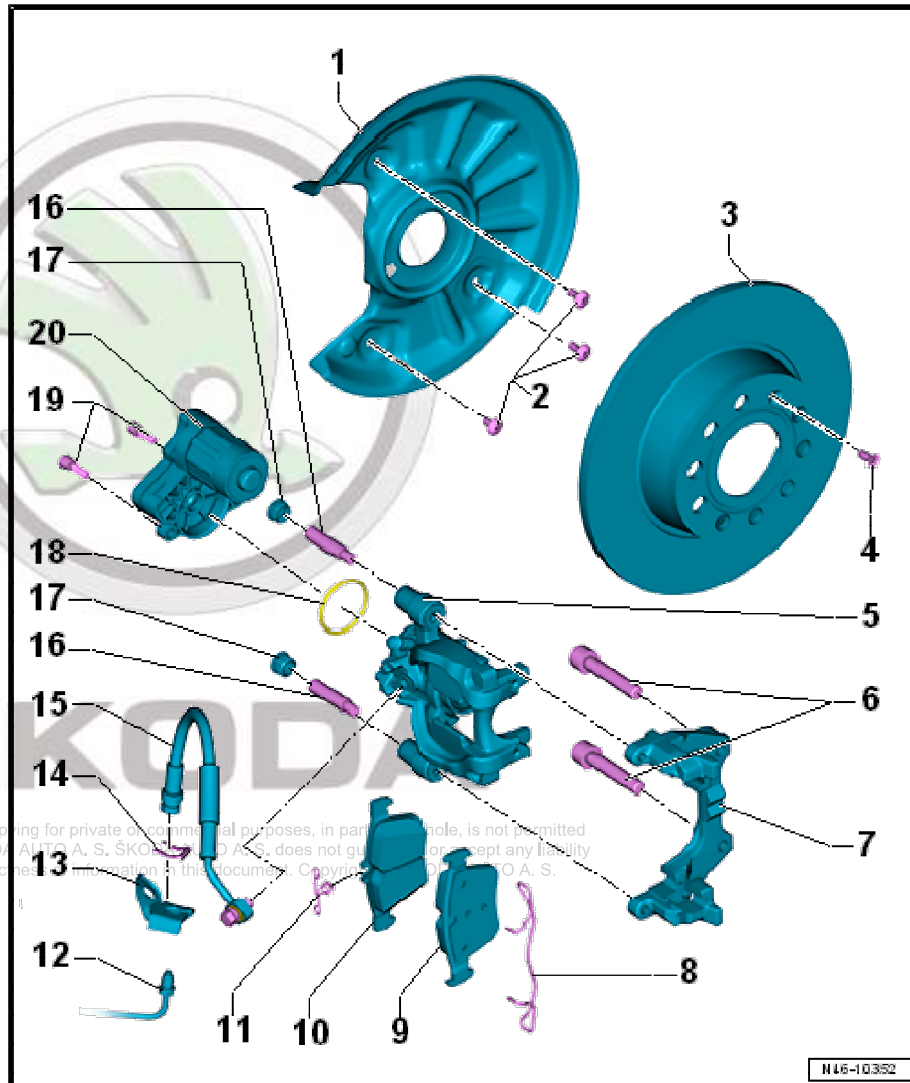
- ☐ Replace after removal
- ☐ 90 Nm + 90°.

**7 - Brake carrier****8 - Spring****9 - Outer brake pad**

- ☐ Dimensions and wear limit ⇒ [“3.1 Technical data for brakes”, page 3](#)
- ☐ always replace axle-wise
- ☐ Removing and installing ⇒ [“2.2 Removing and installing brake pads”, page 53](#)
- ☐ Observe the instructions for changing the pad  
⇒ [“2.2.1 Changing the brake pads of the rear brake - Mounting instructions”, page 53](#)

**10 - Inner brake pad**

- ☐ Dimensions and wear limit ⇒ [“3.1 Technical data for brakes”, page 3](#)
- ☐ always replace axle-wise
- ☐ Removing and installing ⇒ [“2.2 Removing and installing brake pads”, page 53](#)





- ☐ Observe the instructions for changing the pad  
⇒ [“2.2.1 Changing the brake pads of the rear brake - Mounting instructions”, page 53](#)

#### 11 - Spring

- ☐ Only on inner brake pad
- ☐ Check fitting position

#### 12 - Brake line

- ☐ 14 Nm

#### 13 - Brake line holder

#### 14 - Safety device

#### 15 - Brake hose

#### 16 - Guide bolt

- ☐ 35 Nm

#### 17 - Cover caps

#### 18 - Sealing ring

- ☐ for handbrake control motor
- ☐ Replace after removal

#### 19 - Screw

- ☐ 8 Nm

#### 20 - Handbrake motor -V282- / -V283-

- ☐ Removing and installing ⇒ [“3.3 Removing and installing handbrake motor V282 / V283 ”, page 64](#)

## 2.2 Removing and installing brake pads

⇒ [“2.2.1 Changing the brake pads of the rear brake - Mounting instructions”, page 53](#)

⇒ [“2.2.2 Removing and installing brake pads”, page 54](#)

### 2.2.1 Changing the brake pads of the rear brake - Mounting instructions

When changing the pads, pay attention to the following points:

- Check protective collar of brake calliper piston.

Replace protective cap if damaged.

When replacing the protective cap:

- Check the contact surfaces of the brake piston and the brake caliper for any dirt (oxidation).

Carefully clean the piston as well as the brake caliper if dirty and replace the sealing cap.

- Check the brake piston and the brake caliper (corrosion, grooves on the outside of the cylinder surface), replace the brake caliper completely if damaged.

For brake caliper piston, press into the initial position:

- Check if the piston can be slightly pressed into the brake caliper.

If the piston cannot be slightly pressed into the brake caliper:

- Check and clean the brake piston as well as the brake caliper, replace sealing sleeve and protective cap.

Replace the brake caliper completely if damaged.



## 2.2.2 Removing and installing brake pads

### Special tools and workshop equipment required

- ◆ Vehicle diagnosis, measurement and information system
- ◆ Tool set for brake bleeding - VAS 6564- and -VAS 6564/9-
- ◆ Brake filling and bleeding device , e. g. -VAS 5234-
- ◆ Piston jig - T10145-

### Removing



#### Note

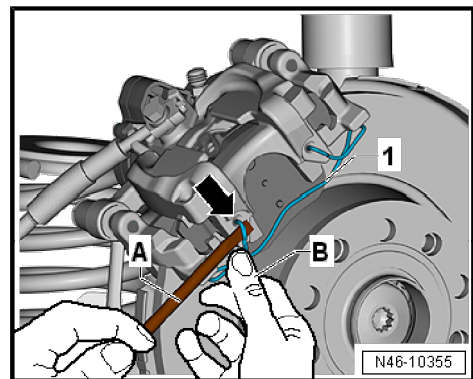
- ◆ *Observe the instructions for changing the pad*  
⇒ ["1.2.1 Changing the brake pads of the front brake - Mounting instructions", page 42](#).
- ◆ *When removing mark the brake pads (inner, outer) you intend to keep using. Fit in same position when installing, or braking will be uneven!*
- ◆ *Do not disconnect the connectors of the handbrake motor.*
- ◆ *The adherend for the brake pads must be free from glue residues and grease.*
- ◆ *Drain the brake fluid from the brake fluid reservoir using a ventilation bottle before resetting the piston. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.*
- ◆ *Do not unscrew the brake hose when replacing the brake pad.*
- ◆ *Do not operate the handbrake for any reason! If the handbrake is operated, the brake caliper is permanently damaged.*



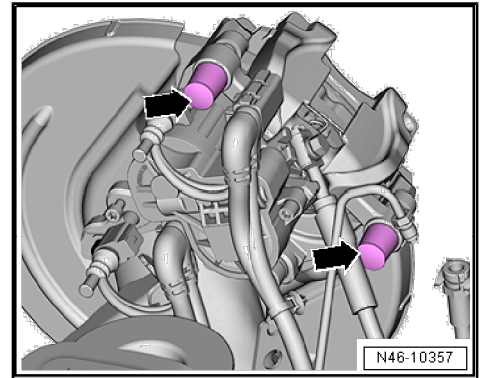
#### CAUTION

**Brake fluid is toxic and must never be sucked up by mouth!**

- Electronic handbrake not actuated.
- Remove wheels.
- Reset the pistons for the electronic handbrake ⇒ Vehicle diagnostic tester.
- Lever the retaining spring -1- for the brake pads out of the brake caliper -arrow- with a screwdriver -A-.



- Remove caps -arrows-.
- Remove both guide bolts from the brake caliper.

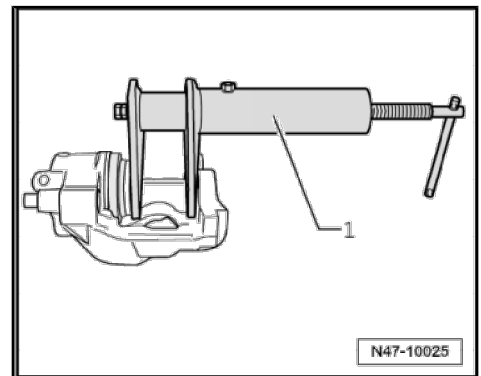
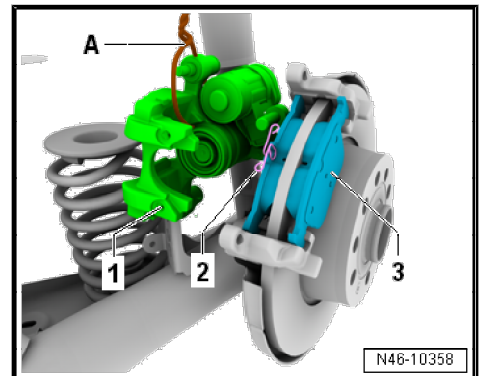


- Remove the brake caliper -1- and secure with wire -A- in such a way that the weight of the brake caliper does not load or damage the brake hose.



#### Note

- ◆ *Do not operate the handbrake for any reason! If the handbrake is operated, the brake caliper is permanently damaged.*
- ◆ *You must set back the pistons with the ⇒ Vehicle diagnostic tester in all cases! The compressor nut in the piston has a sleeve bearing, so that the piston can only be pushed out and cannot be pulled back. Only the spindle is driven back with the compressor nut.*
- Push back the piston completely with the piston resetting tool - T10145- .



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- Remove brake pads -2- and -3-.

#### Clean



#### NOTICE

Do not flush the brake system with compressed air. The dust that is generated is hazardous to health!

- Thoroughly clean guiding surface for brake pads on brake carrier and remove corrosion.
- Clean brake caliper.



#### Note

Use spirits only to clean the brake caliper housing.

#### Installing



#### Note

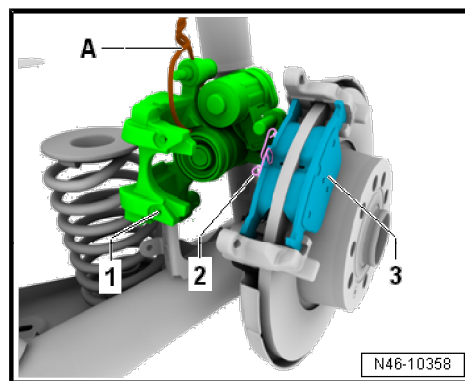
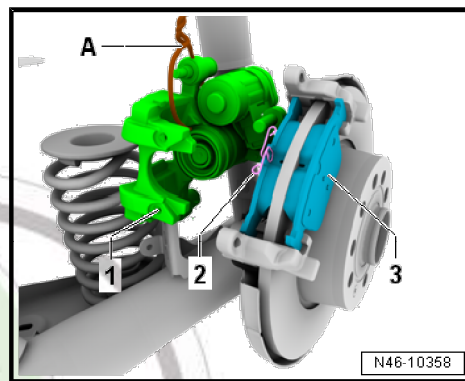
- ♦ Observe the instructions for changing the pad  
⇒ [“2.2.1 Changing the brake pads of the rear brake - Mounting instructions”, page 53](#).
- ♦ The adherend for the brake pads must be free from glue residues and grease.
- ♦ Drain the brake fluid from the brake fluid reservoir using a ventilation bottle before resetting the piston. Otherwise, particularly if reservoir has been topped up, fluid will overflow and cause damage.
- ♦ Do not operate the handbrake for any reason! If the handbrake is operated, the brake caliper is permanently damaged.



#### CAUTION

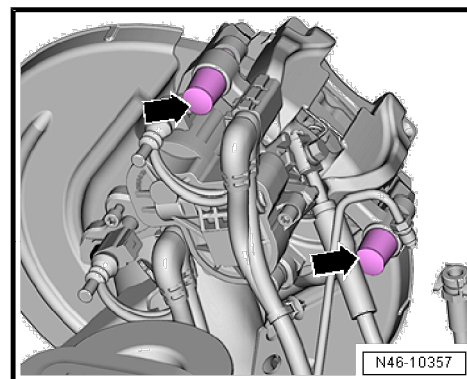
Brake fluid is toxic and must never be sucked up by mouth!

- Insert inner -2- and outer -3- brake pads into the brake carrier.
- Install both brake caliper guide pins.





- Insert caps -arrows-.



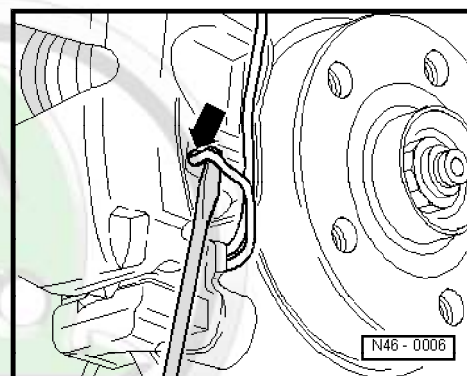
- Insert retaining spring for brake pads into the bore of the brake caliper -arrow-.



#### Note

*Ensure that the retaining spring is correctly seated in the bores of the brake caliper.*

- Bring the brake system to basic position → Vehicle diagnostic tester.
- Attach the wheels.



#### Note

*Check brake fluid level, if necessary top up with brake fluid.*

### Tightening torques - summaries of components



#### Note

*Replace bolts / nuts that are tightened at an angle of rotation, as well as replacement components after removal.*

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- ◆ ⇒ [“2.1 Assembly overview - rear brakes”, page 51](#)
- ◆ Wheel bolts ⇒ Running gear, axles, steering; Rep. gr. 44 ;  
Wheels, tyres; Specified torque for wheel bolts .

## 2.3 Removing and installing brake caliper

### Special tools and workshop equipment required

- ◆ Vehicle diagnosis, measurement and information system
- ◆ Tool set for brake bleeding - VAS 6564- and -VAS 6564/9-
- ◆ Piston jig - T10145-
- ◆ Brake pedal load - V.A.G 1869/2-