

# Removal and Installation of Front Wheel Brake Cylinders

Job No.

42-5

## A. General

The front wheel brake cylinders on the various models differ in the cylinder diameter (see table).

Model	Brake cylinder diameter		Remarks
	in.	mm	
180 a 180 D	1"	25.4	1 <sup>st</sup> version
180 a 180 D 190 D 220 a	1 <sup>1/16</sup> "	26.98	On Models 180 a and 180 D 2 <sup>nd</sup> version, on Model 220 a 1 <sup>st</sup> version
180 b, 180 Db 190 190 Db 190 SL 219 220 a 220 S 220 SE	1 <sup>1/8</sup> "	28.57	On Model 220 a 2 <sup>nd</sup> version

## B. Removal and Installation

### I. Models 180, 180 a, 180 D, and 190 D

To remove and install the wheel brake cylinder remove the brake shoes (see Job No. 42-8, Section A). Further removal procedures for the wheel brake cylinder are the same as on Model 190.

### II. Models 180 b, 180 Db, and 190 Db 1<sup>st</sup> Version

#### Removal:

1. Remove the brake shoes (see Job No. 42-8, Section A).
2. Unscrew the hollow screws from the wheel brake cylinders and remove the brake lines from the wheel brake cylinders, paying attention to the rubber pad between the brake lines and the brake anchor plate.

3. Unscrew the three hexagon screws (3) and remove the wheel brake cylinder (4) (Fig. 42-5/1).

#### Installation:

4. Install the wheel brake cylinder (4) in the brake anchor plate (1) and attach by means of the three fixing screws (3). Use new lock

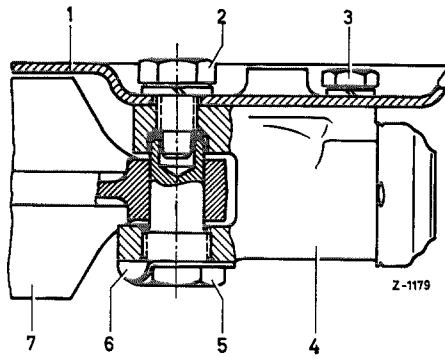


Fig. 42-5/1

1 Brake anchor plate  
2 Stop screw  
3 Hexagon screw  
4 Wheel brake cylinder

5 Anchor pin  
6 Locking plate  
7 Brake shoe

washers and make sure that the fixing screws are tightened evenly (Fig. 42-5/1).

5. Attach the brake lines between the two wheel brake cylinders by means of the hollow screws using new copper gaskets. Insert the rubber pad between the brake lines and the brake anchor plate.

**Note:** Tighten the hollow screws carefully in order to avoid distorting the brake lines.

6. Install the brake shoes (see Job No. 42-8, Section A).

7. Bleed the brake system.

### III. Models 180 b, 180 Db, 190 Db, and 190 SL 2<sup>nd</sup> Version

On these models the anchor pin (5) stop is located in the wheel brake cylinder.

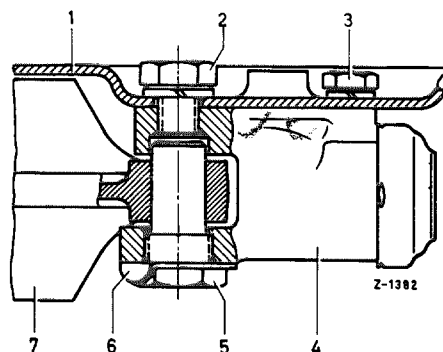


Fig. 42-5/2

1 Brake anchor plate  
2 Hexagon screw  
3 Hexagon screw  
4 Wheel brake cylinder  
5 Anchor pin  
6 Locking plate  
7 Brake shoe

### IV. Models 220 a, 219, 220 S, 220 SE, and 190 SL 1<sup>st</sup> Version

Removal and installation procedures for the wheel brake cylinder are the same as described for Model 190.