

42–160 Replacement of brake pads

Data

Caliper piston dia.	38	60
Thickness of brake pad with backing plate for lining	15	15,5 ¹⁾
Thickness of backing plate for lining	5	4.5
Permissible wear of brake lining up to a remaining thickness of	2	
Width of brake pad max.	61.75	89.75
Effective brake surface per axle (cm ²)	100	206

Lubricant

Plastilube

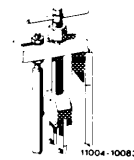
Special tools

Impact puller



123 589 06 33 00

Puller for stuck brake pads



123 589 07 33 00

Piston resetting pliers



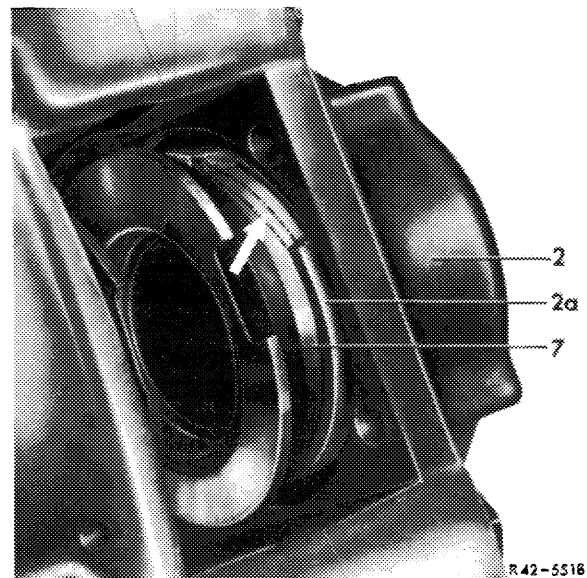
123 589 00 37 00

¹⁾ Models 116.024, 116.033 and 116.120 (USA) 1980.

Note

Replace brake pads when the lining is down to 2 mm or greasy. Use only approved lining grades.

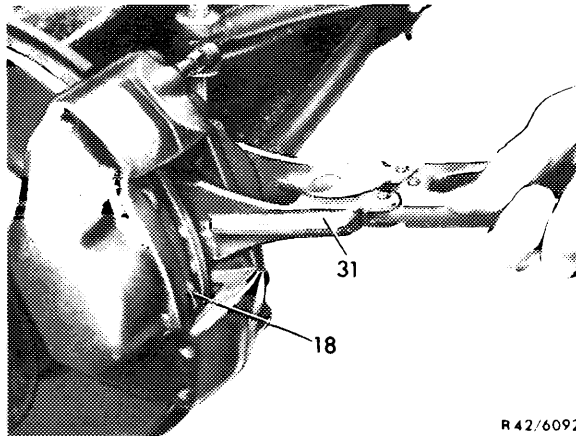
When the brake pads are worn down to the lining backing plate beyond the permissible lining thickness, the caliper may also suffer damage, since the lap between the sealing ring groove and the dust cap will fracture and the caliper will leak.



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When brake pads are excessively worn, a high and low-pressure test (90 or 3 bar gauge pressure) will be required.

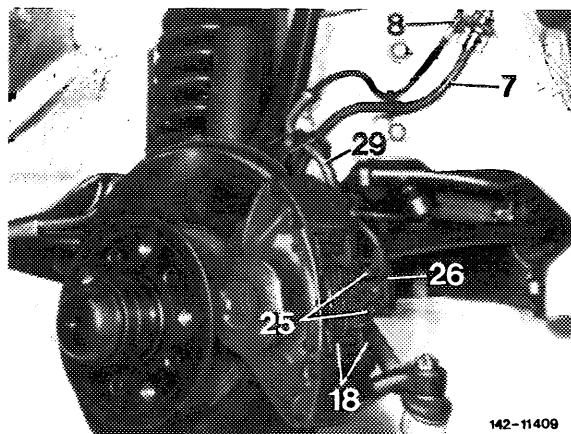
To prevent canting of piston, pistons may be pushed back to their end position by means of piston resetting pliers only.



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Removal

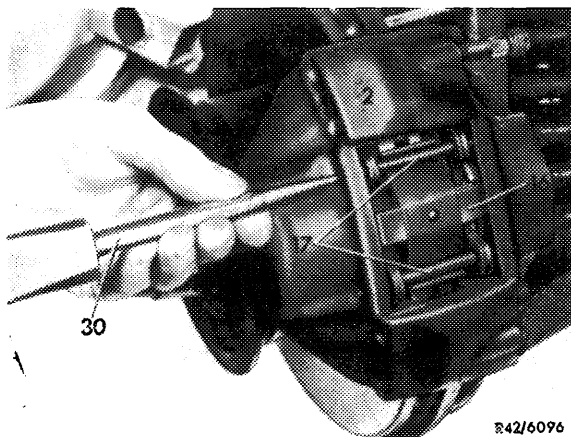
1 On caliper with brake lining wear indicator, pull cables of clip sensor (25) out of plug connection (26) on caliper.



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2 On Teves caliper, knock holding pin (17) out of caliper by means of a punch.

3 On Bendix and Girling caliper, pull both locking eyes out of holding pins, remove holding pins.

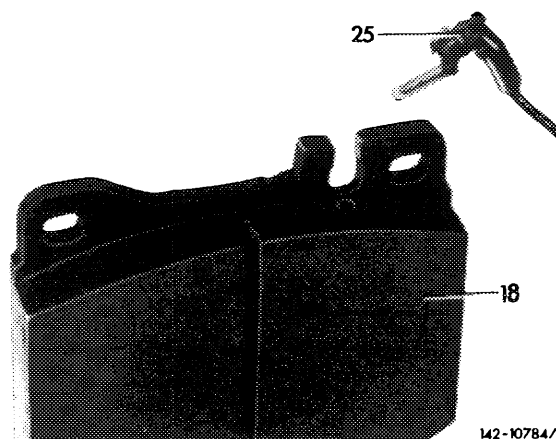


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4 Pull clip sensor (25) out of backing plate or brake lining. Simultaneously, remove cross spring or lining holding springs.

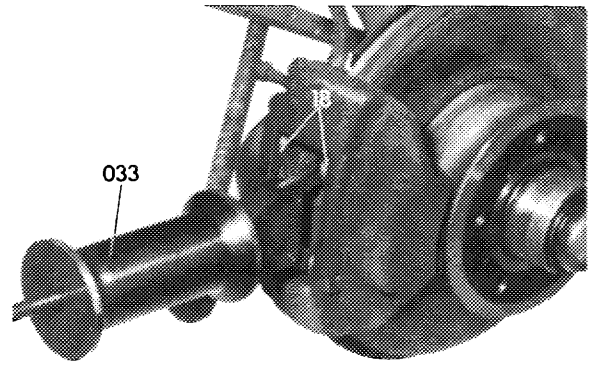
Attention!

Replace clip sensors, on which the insulating layer of the contact pin has been chafed or where damage shows up on a part of sensor including line insulation.



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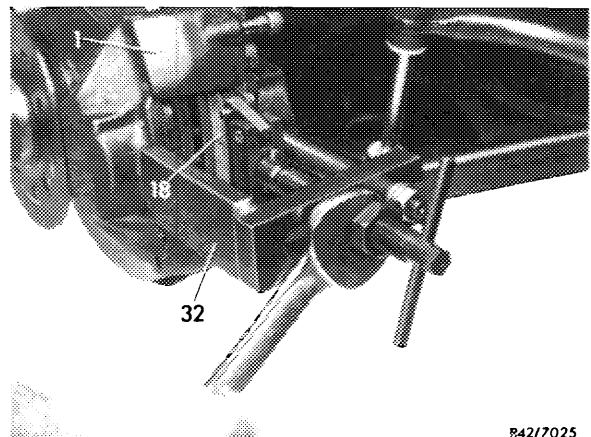
5 Pull one brake pad (18) out of caliper by means of impact puller (033).



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Note: When brake pad is rusted down, use puller (32) for removing pad. If brake pad wear is high, check pistons for easy operation. If pistons are hard to move, recondition caliper.

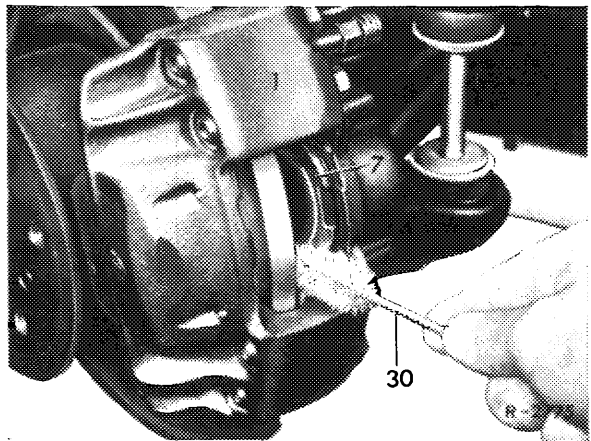
Brake discs which are badly contaminated at braking surface by deposits from lining (indicated by gray or blue discolouration of brake surfaces), must be cleaned prior to installing new brake pads (42-260).



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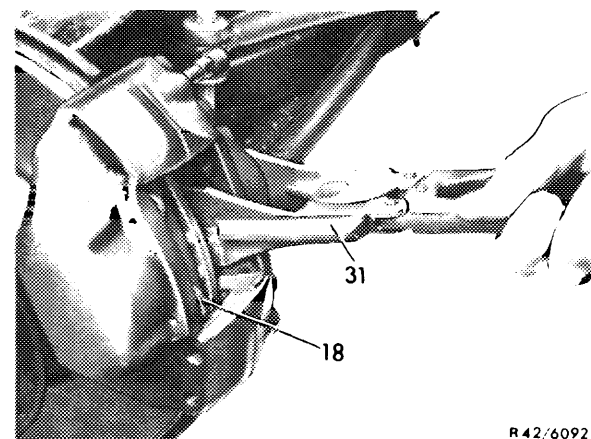
6 Clean guide for brake pad in caliper (1) with a cylindrical brush (30).

7 Check dust cap for cracks. If the dust cap is damaged, remove and disassemble caliper, since penetrating dirt will quickly lead to leaks in caliper.



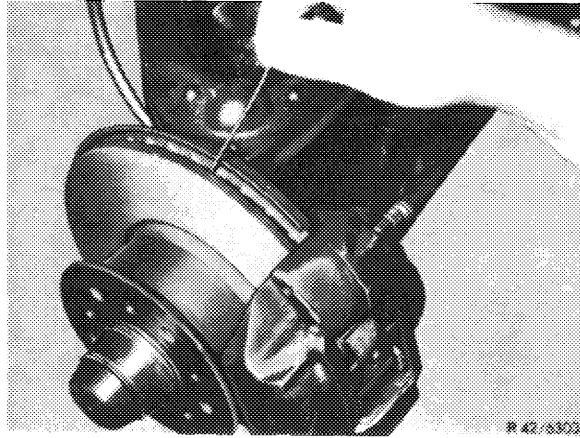
8 To prevent overflowing of expansion tank when the piston is pushed back, draw some brake fluid from expansion tank.

9 Push piston back with piston resetting pliers (31). Make sure that one brake pad (18) always remains in caliper, since otherwise the opposite will be pushed forward when one of pistons is pushed back.



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10 When brake discs are vented, check air shafts for contamination. In such a case clean air shafts with a thin wire while making sure that the balancing clamps are not loosened. Blow dirt out of shafts with compressed air.

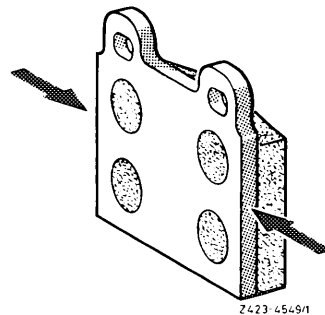


Installation

Attention!

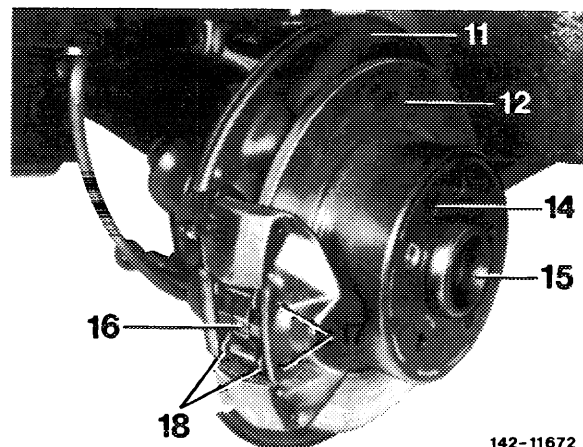
On models 116.024, 116.033 and 116.120 (USA) 1980, only brake pad repair sets 002 586 45 42 and 002 586 46 42 (thickness of brake pad 17.5 mm) may be optionally installed on front axle together with brake pad repair set 002 586 47 42 and 002 586 48 42 optionally on rear axle.

11 Slightly coat brake pad at spots indicated by arrows in illustration with specified lubricant (refer to table) and insert brake pad into caliper.

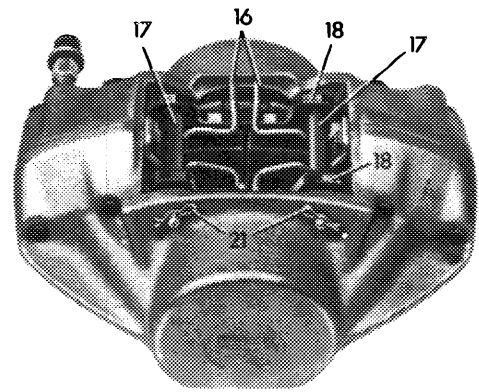


12 Replace second brake pad as described in item 5 to 9 and 11.

13 On Teves caliper, mount cross spring (16) and knock holding pins (17) into caliper.



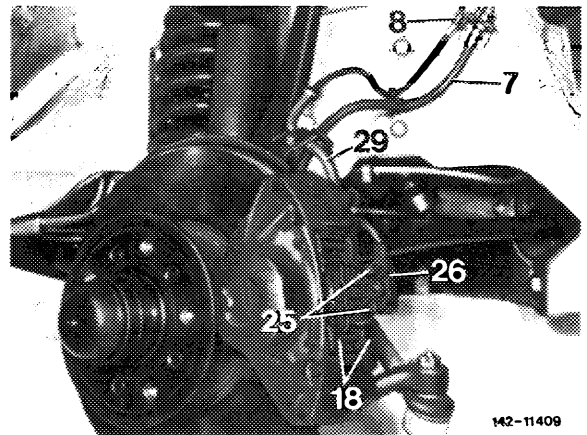
14 On Bendix and Girling caliper, mount spring holding lining (16) and insert holding pins (17) into caliper and locking eyes (21) into holding pins.



142-10097

15 On vehicles with brake lining wear indicator, insert clip sensor (25) into brake pad and cable into plug connection (26).

16 Actuate brake pedal several times energetically until firm resistance is felt. Then check level of brake fluid in expansion tank and top up, if required.

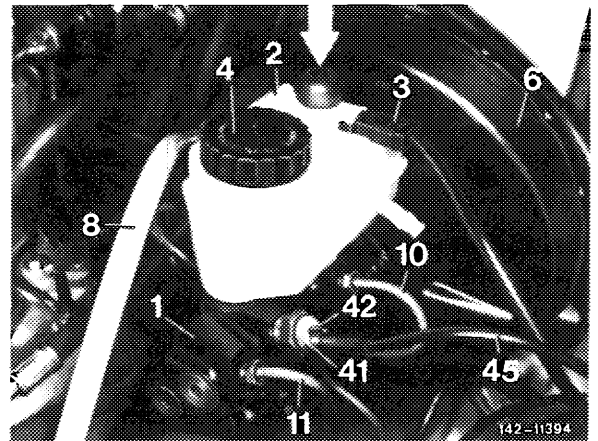


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Note: On vehicles with pressure difference warning indicator (DDW), the warning lamp of the warning indicator may light up when the lining is changed. For this reason, make sure that the releasing pin (42) on switch (41) is pushed following the change of lining.

New brake pads must be **braked in carefully**, that is, the vehicle should be braked several times from 80–40 km/h at slight pedal pressure.

Prior to each deceleration, permit brake to cool slightly. Braking to a stop on the high deceleration should be attempted only with run-in linings.



142-11394