

Disassembly and Reassembly of Automatic Adjustment

Job No.

42-10

A. Disassembly and Reassembly

On Models 190 SL, 219, 220 a, 220 S, and 220 SE the disassembly and reassembly procedures for the automatic brake shoe adjustment are the same as on Model 190.

B. Bolt for Automatic Brake Shoe Adjustment

For reasons of standardization and in order to enlarge the clearance of the brake shoes recent cars of Models 190 SL, 219, 220 S, and 220 SE have been provided **both on the front axle and on the rear axle** with bolts of equal diameter for the automatic brake shoe adjustment. As a result there is a uniform brake shoe clearance on the front axle and on the rear axle of **1.0 mm**.

The bolts providing a clearance of 1.0 mm can be identified by the shoulder on the hexagon head (Fig. 42-10/2). (On previous cars bolts on the front axle provided a brake shoe clearance of 0.8 mm and on the rear axle of 1.0 mm).

Before this change was made bolts giving a clearance of **1.3 mm** were installed on the leading brake shoes of the rear axle. These bolts can be identified by a groove on the hexagon head (Fig. 42-10/1).

The adjusting sleeves in the brake shoes have the same internal diameter on all models.

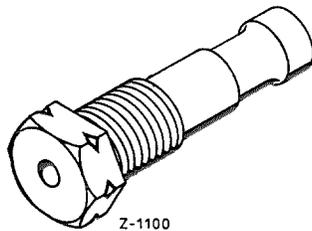


Fig. 42-10/1

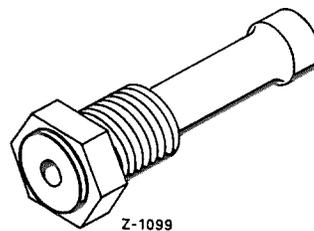


Fig. 42-10/2

Dimensions and Tolerances of Automatic Adjustment in mm

Brake shoe	Version	Bolt		Adjusting sleeve		Clearance between bolt and adjusting sleeve
		Part No.	Diameter	Internal ϕ	Length	
Front Axle						
leading	1st	180 421 02 71	$\frac{11.200}{11.173}$	$\frac{12.000}{12.070}$	36	0.800—0.885
leading	2nd	180 421 06 71	$\frac{11.000}{10.973}$			1.000—1.085
Rear Axle						
leading and trailing	1st	180 423 02 71	$\frac{11.000}{10.973}$	$\frac{12.000}{12.070}$	30	1.000—1.085
leading	2nd	180 423 03 71	$\frac{10.700}{10.673}$			1.300—1.385
leading		180 423 02 71	$\frac{11.000}{10.973}$			1.000—1.085
leading and trailing	3rd	180 421 06 71	$\frac{11.000}{10.973}$			1.000—1.085

Note: The front axle has 4 leading brake shoes, the rear axle has 2 front leading brake shoes and 2 rear trailing brake shoes.