

Removal and Installation of Steering Gear Arm

Job No.

46-12

A. General

On Models 180 to 220 SE the steering gear arms differ in the length "a", the height "c" and the offset "b". The length "a" is measured from the fulcrum of the steering gear arm on the steering shaft to the fulcrum of the ball pin of the tie-rod on the steering gear arm (see Fig. 46-12/1 and Table).

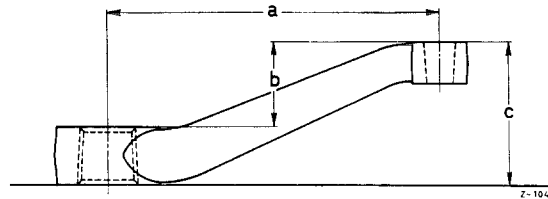


Fig. 46-12/1

Model	Steering gear arm				Remarks
	Part No.	Length "a" mm	Offset "b" mm	Height "c" mm	
180	120 463 02 01	152	41±0.3	64±0.5	(1st version) For steering Part No. 120 460 11 01 and Part No. 120 460 18 01
	120 463 05 01	152	39±0.3	64±0.5	(2nd version) For steering Part No. 120 460 14 01, Part No. 120 460 24 01, and Part No. 120 460 31 01
180 D	120 463 08 01	140	32±0.3	57±0.5	(1st version) For steering Part No. 120 460 14 01 and Part No. 120 460 24 01
	120 463 05 01	152	39±0.3	64±0.5	(2nd version) For steering Part No. 120 460 24 01 and Part No. 120 460 31 01
180 a, 180 b, 180 Db, 190, 190 b 190 D, 190 Db	120 463 05 01	152	39±0.5	64±0.5	
190 SL	121 463 01 01	170	50±0.3	75±0.5	(1st version) For steering Part No. 120 460 24 01 and Part No. 120 460 31 01 but only for cars with three-point engine suspension
	120 463 05 01	152	39±0.3	64±0.5	(2nd version) For steering Part No. 120 460 24 01 and Part No. 120 460 31 01; for cars with three-point and four-point engine suspension
219, 220 a, 220 S, 220 SE	180 463 03 01	135	30±0.3	55±0.5	

Note: The steering gear arm Part No. 120 463 02 01 installed on Model 180 for steering assemblies Part No. 120 460 11 01 and Part No. 120 460 18 01 (steering shaft diameters 25.4 and 28.5 mm) has smaller serrations than the steering gear arm for steering assemblies with a steering shaft diameter of 30.0 mm.

B. Removal and Installation

On Models 180 to 220 SE the removal and installation procedures for the steering gear arm are the same as on Model 190 but on six-cylinder engines the steering shock absorber must be removed and attached to the steering gear arm (see Job No. 46-10).

Job No.
46-13

Removal and Installation of Steering Coupling

I. Models 180, 180 a, 180 b, 180 D, 180 Db, 190 D, 190 Db, 220 a, 219, 220 S, and 220 SE

The removal and installation procedures for the steering coupling jointing disk are the same as for Model 190.

II. Model 190 SL

The steering coupling is not provided with a jointing disk but takes the form of a universal joint.

Removal:

1. Remove the steering tube (see Job No. 46-8).
2. Unscrew the lower clamping screw of the universal joint and pull the universal joint off the steering worm.

Installation:

3. Press the universal joint onto the steering worm serrations and fix in position by means of the clamping screw.
4. Install the steering tube (see Job No. 46-8).

Note: In case of repairs the complete universal joint must be replaced.