

# Mechanical Clutch

Job No.
25-0

On Models 180 to 220 SE the clutch is essentially the same as the clutch on Model 190.

Differences exist in the method of centering the clutch pressure plate in relation to the crankshaft (see Figs. 25-0/1 and 25-0/2 and Table "Clutch Pressure Plate").

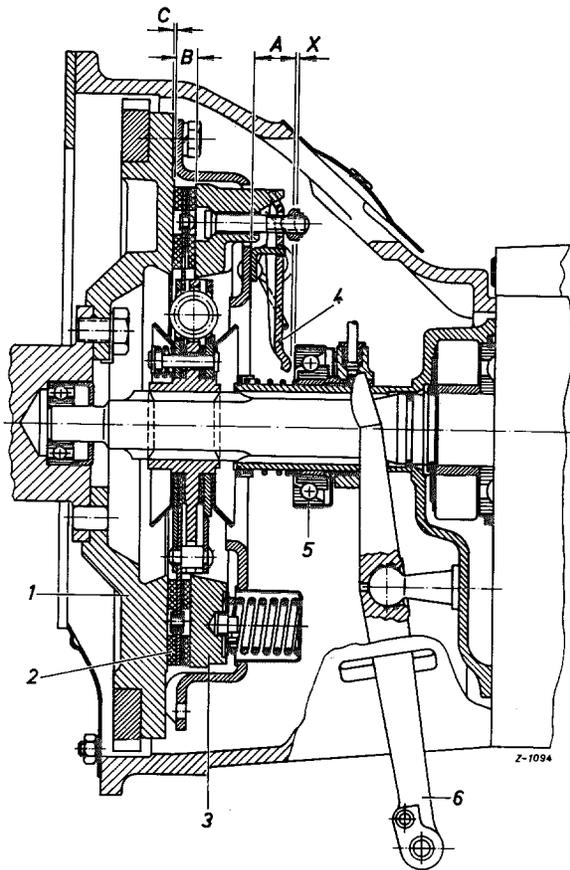


Fig. 25-0/1

Clutch arrangement with dowel pin centering

- 1 Flywheel
- 2 Driven plate
- 3 Clutch pressure plate
- 4 Release lever
- 5 Throw-out unit with bearing
- 6 Throw-out fork

- A = Adjusting dimension for new driven plate
- B = Thickness of a refaced compressed driven plate
- C = Clearance between clutch face and clamping face
- X = Free play between release lever and throw-out bearing

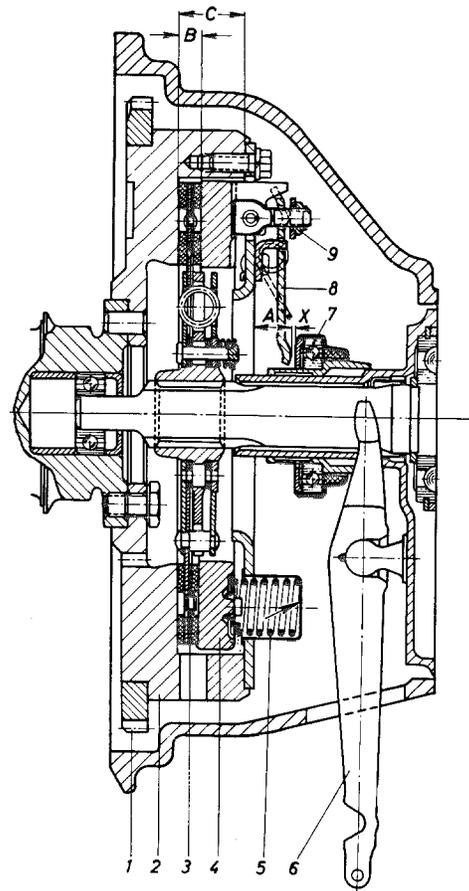


Fig. 25-0/2

Clutch arrangement with cylindrical centering

- 1 Starter ring gear
- 2 Flywheel
- 3 Driven plate
- 4 Clutch pressure plate
- 5 Clutch spring
- 6 Throw-out fork
- 7 Throw-out unit with bearing
- 8 Release lever
- 9 Adjusting nut

When repairs are carried out clutch KS 12 KV (180 250 07 04) can be installed subsequently on Models 180, 180 a, 180 D, 190, and 190 SL. On Models 219, 220 a, and 220 S the clutch pressure plate with cylindrical centering cannot be installed subsequently, since the 2<sup>nd</sup> version flywheel (cylindrical centering) has to be balanced dynamically together with the crankshaft.

## Clutch pressure plate

Model	Clutch pressure plate			Version	Remark
	F. & S. Designation	D. B. Part No.	Thrust pressure kg		
180	K 12 KV J 1 KS 12 KV	136 250 00 04 180 250 07 04	410 480	1st 2nd	cylindrical centering
180 D	K 12 KV J 1 KS 12 KV	136 250 00 04 180 250 07 04	410 480	1st 2nd	
180 a	KS 12 K KS 12 KV	121 250 03 04 180 250 07 04	450 480	1st 2nd	
190	KS 12 K KS 12 K KS 12 KV	121 250 02 04 121 250 03 04 180 250 07 04	410 450 480	1st 2nd 3rd	
180 b, 180 Db 190 b, 190 Db	KS 12 KV	180 250 07 04	480		
190 SL	KS 12 K KS 12 K KS 12 KV	121 250 02 04 121 250 03 04 180 250 07 04	410 450 480	1st 2nd 3rd	
219	KFS 12 K KS 12 K KS 12 KV	180 250 05 04 180 250 03 04 180 250 07 04	480 480 480	1st 2nd 3rd	dowel pin centering cylindrical centering cylindrical centering
220 a	KFS 12 K	180 250 05 04	480		dowel pin centering
220 S	KFS 12 K KS 12 K KS 12 KV	180 250 05 04 180 250 03 04 180 250 07 04	480 480 480	1st 2nd 3rd	dowel pin centering cylindrical centering cylindrical centering
220 SE	TK 228 KV TK 228 KV	128 250 00 04 128 250 02 04	480—505 525	1st 2nd	cylindrical centering cylindrical centering

The clutch pressure plate with cylindrical centering has been installed as from the following chassis end numbers:

Model 219 85 05200  
Model 220 S 85 11587