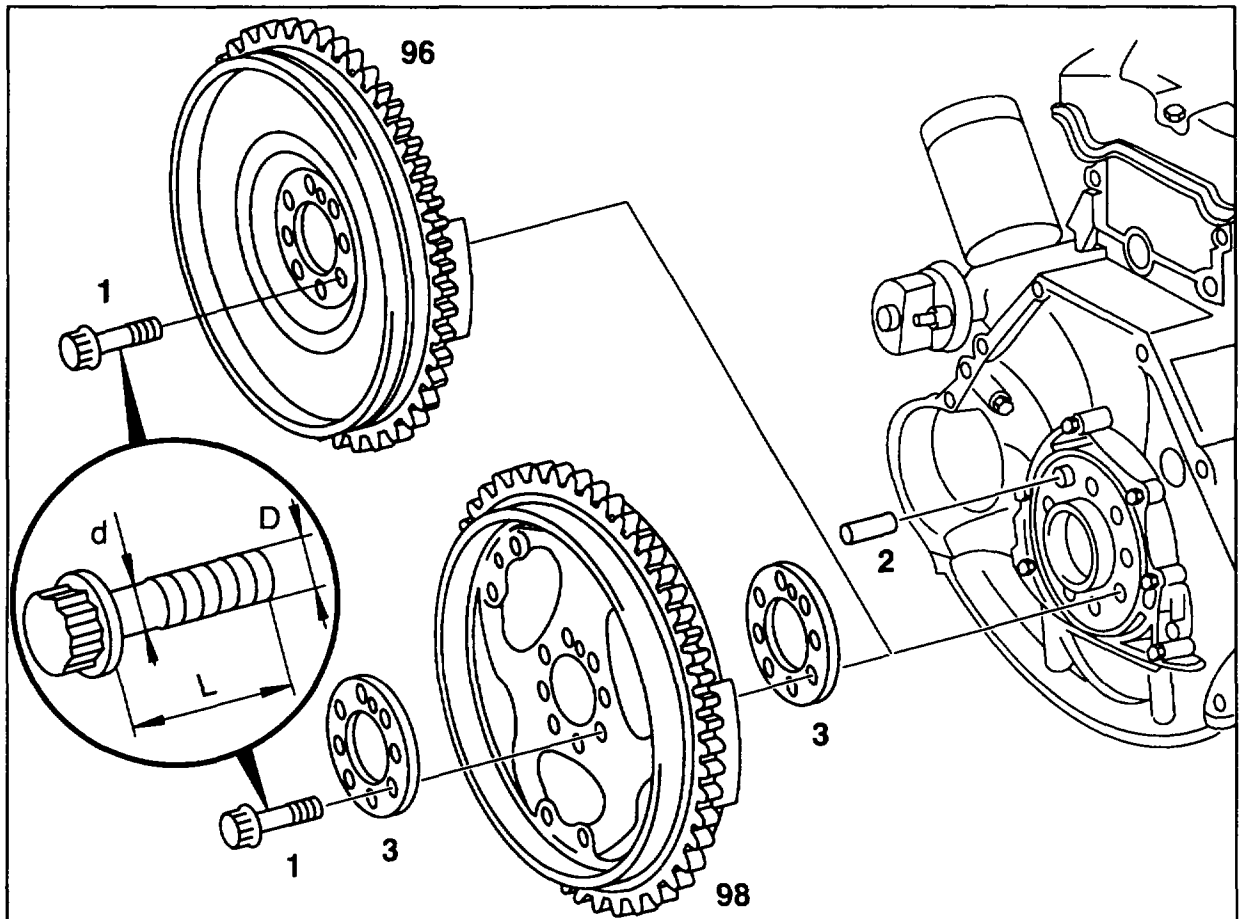


## 03-4100 Removing and installing flywheel or driven plate

Preceding work:  
 Manual or automatic transmission removed (26-020  
 or 27-600).  
 Clutch of manual transmission removed (25-050).  
 Holding lock for crankshaft fitted (03-5000).

Operation no. of operation texts and work units or standard texts  
 and flat rates  
 03-8001, 03-8201



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- |  |   |
|--|---|
| Stretch bolts (1) .....                              | unscrew, screw on (see table for tightening torque, pay attention to note). |
| Stretch bolts (1) .....                              | examine (see table)   |
| Flywheel (96) or driven plate (98) and disks (3) . . | take off, fit on  |

### Note

If the minimum stretch shaft  $\varnothing$  is reached, replace stretch bolt (1)

### Note

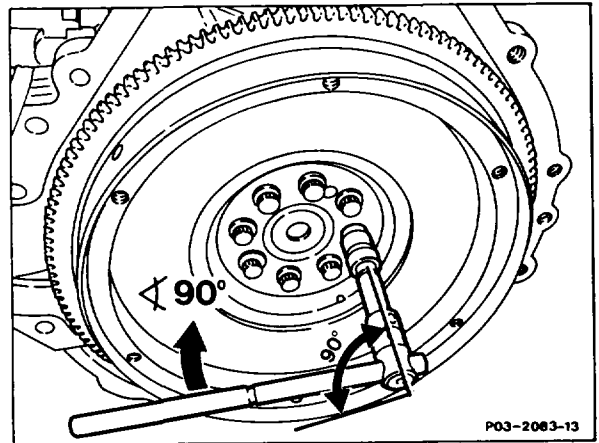
The rear disk (3) may be stuck onto the driven plate (98)

**Data**

Thread D		M10 × 1
Stretch shaft Ø d	New	8.5 – 0.2
	Minimum Ø	8.0
Length of bolt L	New	22 ± 0.2
Tightening torque	30 Nm + 90° tightening angle	

**Note**

If no torque wrench is available, the stretch bolts can be tightened on by the specified angle in a single operation with a socket wrench and tommy bar. Do not use a flexi-rod torque wrench for tightening to angle degrees in order to eliminate any possible angle errors.


**Installation of heavier flywheel on models with manual transmission**

The behavior during load changes has been improved as a result of using a heavier flywheel and a modified clutch plate.

**Heavier flywheel, production breakpoint: 03/1985**

Model	Engine	Engine end no.		Vehicle ident end no. A
		manual transmission	automatic transmission	
124.030	103.980	000118	-	032 198
126.024	103.981	000143	-	193 085
126.025	103.981	000143	-	193 085
126.020	103.941	000068	-	193 085



### Use of a straightpin in crankshaft

The straightpin ensures the correct installation position of the sensor segments for the TZL sensor on the flywheel or driven plate relative to the crankshaft.

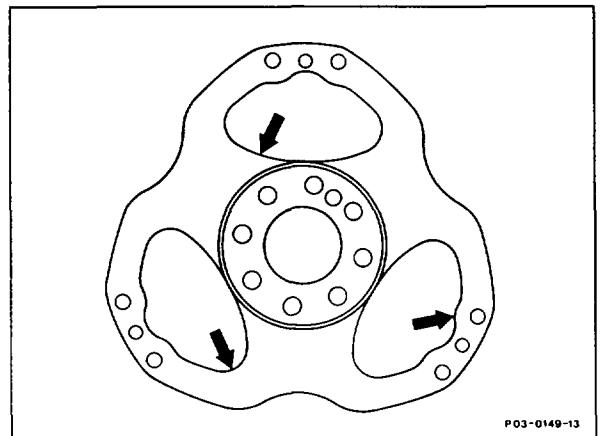
### Production breakpoint: 12/1985

Model	Engine	Engine end no.		Vehicle ident end no.	
		manual transmission	automatic transmission	A	F
107.041	103.982	000213	001116	041763	*
124.026	103.940	001946	002807	*	*
124.030 124.090	103.983	002267	014798	152138	002014
126.020	103.941	000394	001660	215269	*
126.024 126.025	103.981	000877	005508	*	*

\* not recorded

### Modified driven plate on models with automatic transmission

Broached (previously pressed) recesses (arrows) avoid cracking.



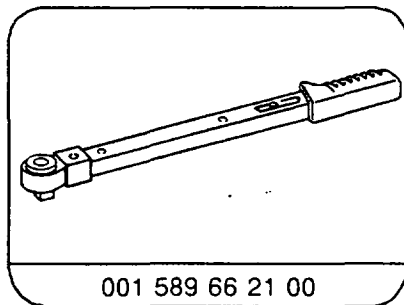
**Production breakpoint: 02/1987**

Model	Engine	Engine end no. automatic transmission	Vehicle ident end no.	
			A	F
107.041	103.982	005218	065233	*
124.030 124.090	103.983	063076	437662	*
124.230 124.290	103.985	000083	*	*
126.024 126.025	103.981	029121	320548	*

\* not recorded

**Production breakpoint: 01/1990**

Model	Engine	Engine end no. automatic transmission
124.026	103.940	077499
124.226	103.943	001199
126.020	103.941	014762
201.029	103.942	041920

**Special tool**

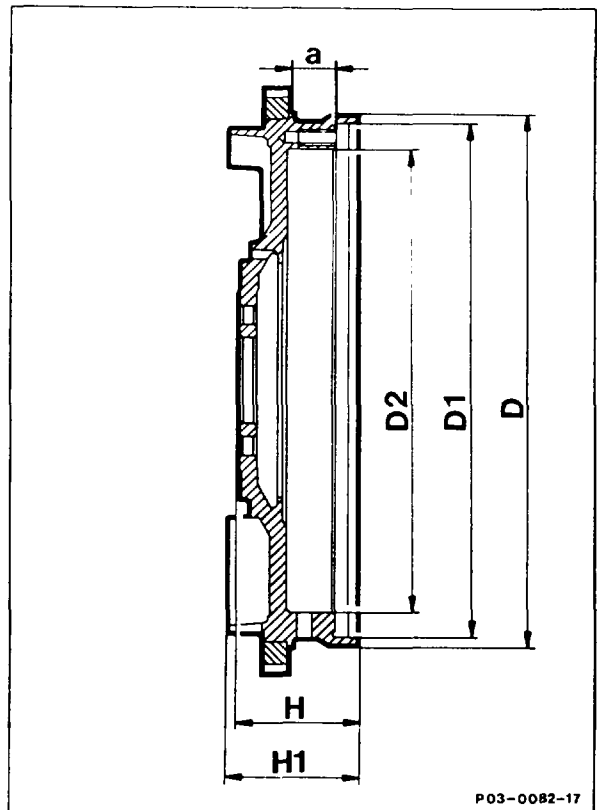
**Note**

The flywheels of engines 103.94 and 103.98 differ in their dimensions and weight.

**Distinguishing characteristics 1)**

Engine	D	D2	H	H1	a
<b>1st version</b>					
103.94	272.0	237	55.5	61.5	24.8
<b>2nd version</b>					
103.94	293.1	237	55.5	61.5	24.8
<b>1st version</b>					
103.98	293.1	244	55.5	61.5	24.8
<b>2nd version</b>					
103.98	292.8	250	60.2	66.2	27.5

1) except models with 4MATIC

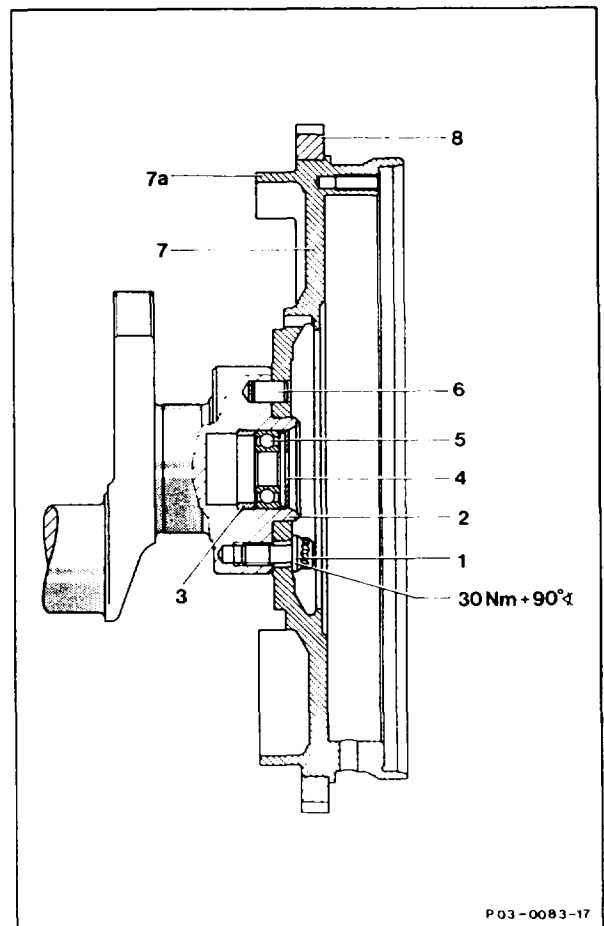


Flywheel and driven plate are located on the crankshaft with fit holes and fixed in each case with a dowel pin.

Flywheel or driven plate together with ring gear are balanced individually and can be replaced without balancing.

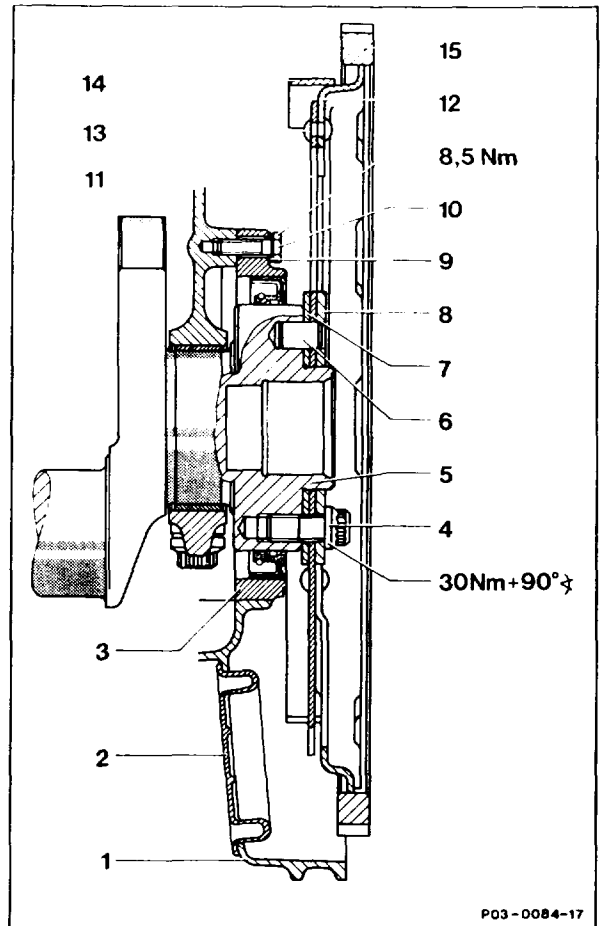
**Arrangement with manual transmission**

- 1 Stretch bolt M10 x 1 x 22
- 2 Crankshaft
- 3 Spacer ring
- 4 Closing cover
- 5 Grooved ball bearing
- 6 Dowel pin
- 7 Flywheel
- 7a Segment
- 8 Ring gear



Arrangement with automatic transmission

- 1 Oil sump
- 2 Cover
- 3 Closing cover with radial seal
- 4 Stretch bolt M10 × 1 × 22
- 5 Crankshaft
- 6 Dowel pin
- 7 Disc 2.6 mm (stuck on)
- 8 Disc 3.5 mm
- 9 Washer
- 10 Bolt
- 11 Driven plate
- 12 Ring for ring gear
- 13 Rivet
- 14 Segment
- 15 Ring gear



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