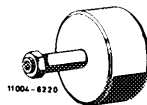


05—410 Removal and installation of helical gear shaft

Special tools

Impact puller for bearing bolt (basic unit)



116 589 20 33 00

Threaded bolt M 6 x 150 for impact puller



116 589 02 34 00

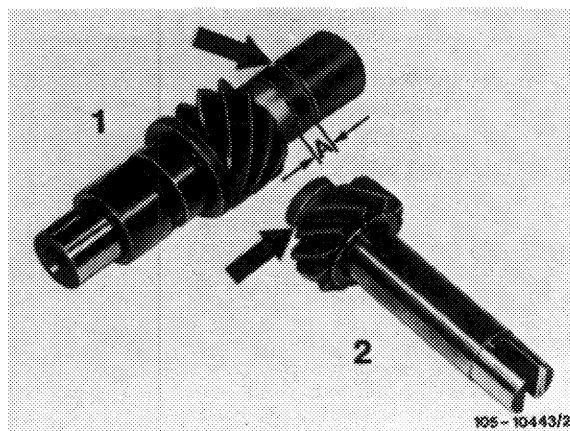
Note

The oil pump drive comprises the **intermediate gear shaft (1)** and the **helical gear shaft (2)**, and may be replaced in sets only (05—412).

In the event of repairs, install oil pump drive part no. 110 050 02 06:

Intermediate gear (1): 9 teeth, groove (arrow), dimension A = 5 mm

Helical gear (2): 12 teeth, groove (arrow).



Standard installation oil pump drive 110 050 02 06

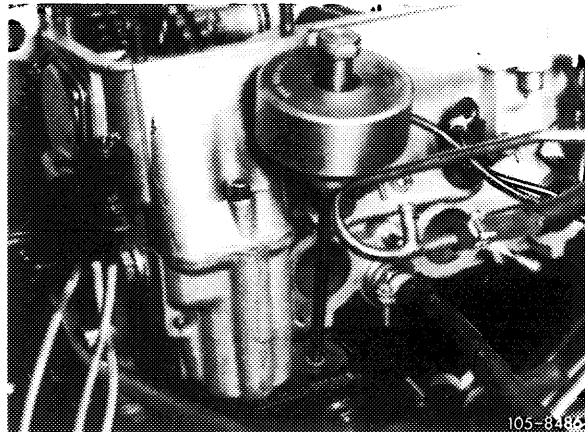
| Engine | Engine end no. | |
|----------------|------------------|--------|
| | from | to |
| 110.921 — 10 — | 009381 | 009738 |
| — 12 — | 039115 | 040762 |
| 110.922 — 10 — | 018226 | 019645 |
| and starting | 033340 (1. 1978) | |
| — 12 — | 027657 | 030434 |
| and starting | 055136 (1. 1978) | |
| 110.923 — 10 — | 010452 (1. 1978) | |
| — 12 — | 012890 (1. 1978) | |
| 110.931 — 10 — | 001071 | 001080 |
| — 12 — | 000137 | 000138 |
| 110.932 — 10 — | 002861 | 003151 |
| and starting | 007879 (1. 1978) | |
| — 12 — | 000432 | 000491 |
| and starting | 001954 (1. 1978) | |
| 110.981 — 10 — | 010491 | 010636 |
| — 12 — | 022258 | 022809 |
| 110.982 — 10 — | 000547 | 000704 |
| — 12 — | 001196 | 001528 |
| 110.983 — 10 — | 013511 | 014341 |
| — 12 — | 035853 | 038811 |
| 110.984 — 10 — | 005137 (1. 1977) | |
| — 12 — | 013900 (1. 1977) | |

| | |
|----------------|------------------|
| 110.985 – 10 – | 002060 (1. 1977) |
| – 12 – | 009179 (1. 1977) |
| 110.986 – 10 – | 000461 (1. 1977) |
| – 12 – | 000991 (1. 1977) |

All exchange engines starting unit no. 464 130 are provided with oil pump drive part no. 110 050 02 06.

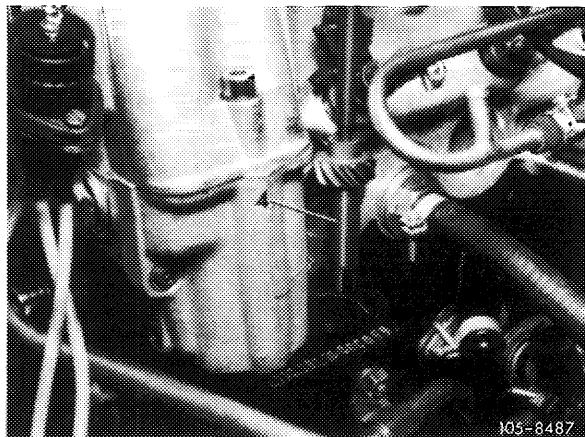
Removal

- 1 Remove intake pipe (09–400).
- 2 Knock out closing cover by means of impact puller (6 mm threaded bolt).



- 3 Pull out helical gear shaft (4) in upward direction by means of an M-6 screw.

Note: The bearing body together with bearing bushing for helical gear shaft can be knocked out in upward direction with intermediate gear shaft removed.



Installation

4 Guide in helical gear shaft (4).

Oil pump drive shaft (9) must engage in dog claws of helical gear shaft (4).

5 Knock in new cover (2) with a pertinent sleeve (approx. 35 mm dia.).

6 Install intake manifold with a new gasket (09-400).

Oil pump drive

- 1 Crankcase
- 2 Cover with stop pin
- 3 Intermediate gear shaft of oil pump drive
- 4 Helical gear shaft of oil pump drive
- 5 Bearing bushing
- 6 Bearing
- 7 Bearing bushing of oil pump housing
- 8 Oil pump housing
- 9 Oil pump drive shaft

