

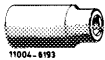
## 05-432 Removal and installation of intermediate sprocket

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Tightening torques	Nm
Nuts for cylinder head cover	15
Necked-down screw for camshaft sprocket	80
Fastening screw intermediate sprocket	25
Pressure oil pump to cylinder crankcase	10

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### Special tools

Socket 27 mm, 1/2" square, for rotating engine	 11004-6193	001 589 65 09 00
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Impact puller (basic unit)	 11004-6220	116 589 20 33 00
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Threaded bolt M 8, 150 mm long, for impact puller	 11004-6217	616 589 00 34 00
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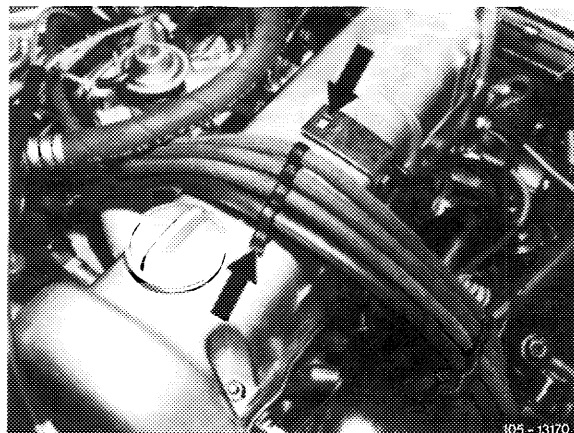
Threaded bolt M 6, 50 mm long, for impact puller	 11004-6368	116 589 01 34 00
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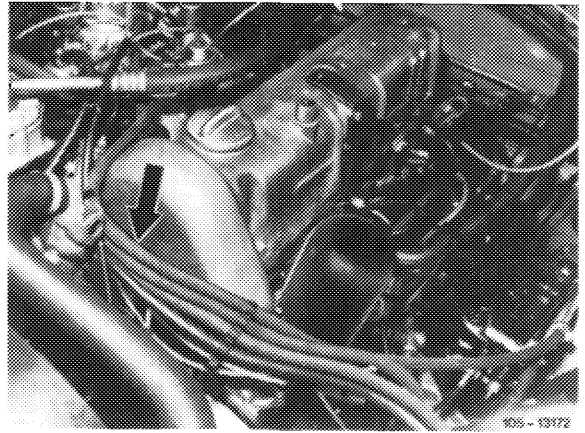
### Removal

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- 1 Remove radiator and fan.
- 2 Remove cylinder head cover. For this purpose, on (AUS), (J), (S) and (USA) starting 1977, push-out clamp assembly of fuel hoses on holder and pull-out fuel hoses with clamp assembly in forward direction over cylinder head cover.



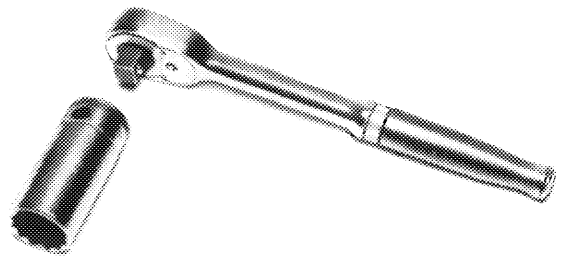
3 On (USA) 1973–1975, remove vacuum pump with holder.



4 Set engine to ignition TDC of 1st cylinder. For this purpose, rotate engine with tool combination.

5 Remove ignition distributor (07.5–530).

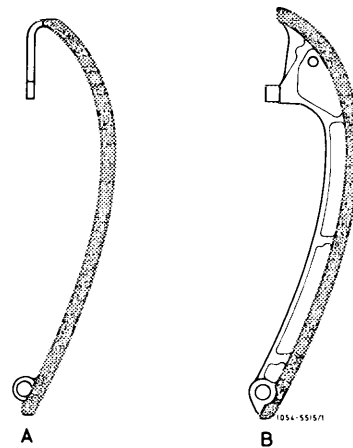
6 Remove helical gear shaft (05–410).



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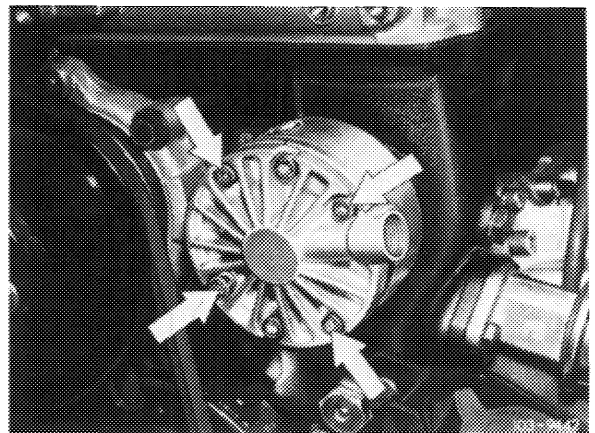
7 On engines 115.923/926/951 with tensioning rail version (A), remove chain tensioner (05–310).

On engines with light alloy tensioning rail (B), push back thrust bolt of chain tensioner.



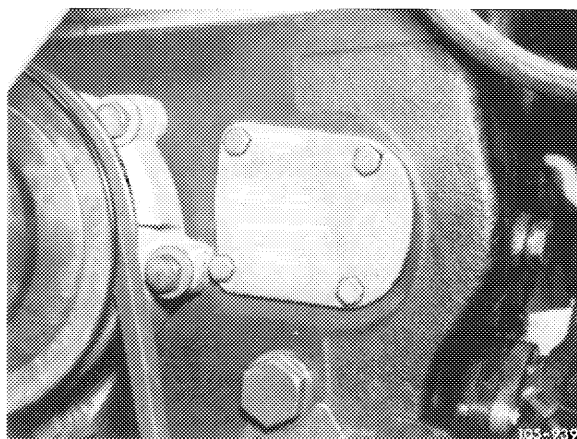
8 On vehicles with level control, remove pressure oil pump with lines connected and put aside. For this purpose, remove screws (arrows).

Remove driver.

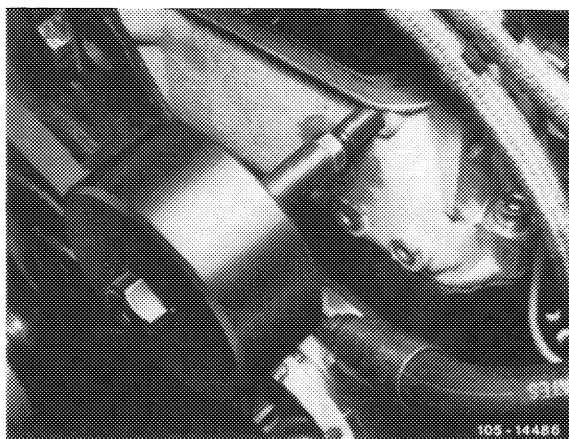


9 On (AUS), (J), (S) and (USA) with power steering starting 1977, unscrew carrier for power steering and air pump. Remove aluminum carrier.

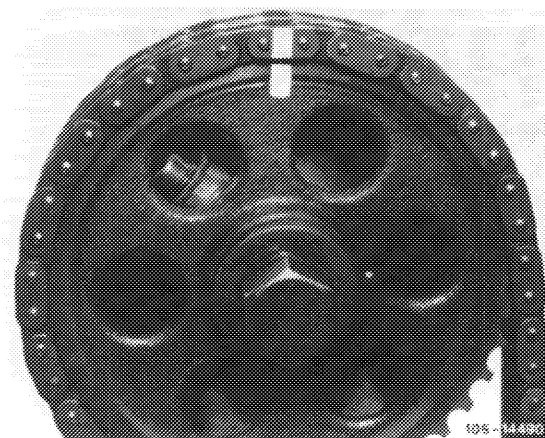
10 Unscrew closing cover on cylinder crankcase.



11 Remove both slide rails in cylinder head by means of impact puller (05-340).



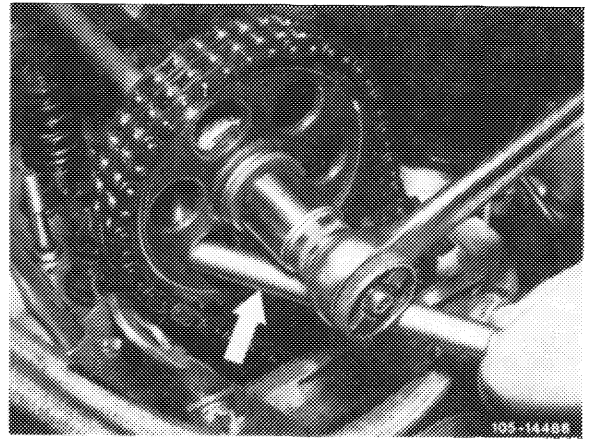
12 Mark camshaft sprocket and timing chain with paint in relation to each other.



13 Remove camshaft sprocket. To loosen necked-down screw, apply counterhold to camshaft sprocket with screw driver or steel pin, loosen holder for fuel lines and swivel sideways.

14 Unscrew intermediate sprocket. Hold a screw driver behind intermediate sprocket and push intermediate sprocket shaft toward the rear.

Remove intermediate sprocket in upward direction.



### Installation

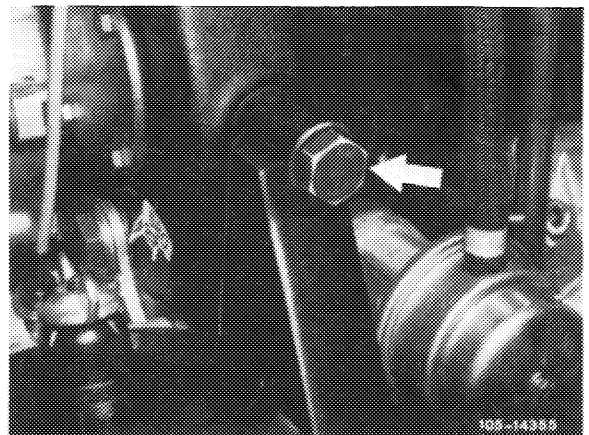
15 Insert intermediate sprocket and tighten.

16 Install both slide rails in cylinder head (05-340).

17 Unscrew chain locking screw.

18 Insert helical gear shaft (05-410).

Rotate helical gear shaft with a screw driver until shaft is correctly located.



19 Pull up timing chain and check position of helical gear shaft.

If position is not in order, displace timing chain on intermediate sprocket by one tooth.

20 Place camshaft sprocket with timing chain on camshaft.

Pay attention to color marks.

21 Position necked-down screw for fastening camshaft sprocket and tighten to 80 Nm. For this purpose, apply counterhold to camshaft sprocket with a screw driver or a steel pin.

22 Screw-in chain locking screw.

23 Install ignition distributor (07.5-530).

24 Mount closing cover with new gasket.

25 For further installation proceed vice versa to removal.

26 Check firing point (07.5-510).

