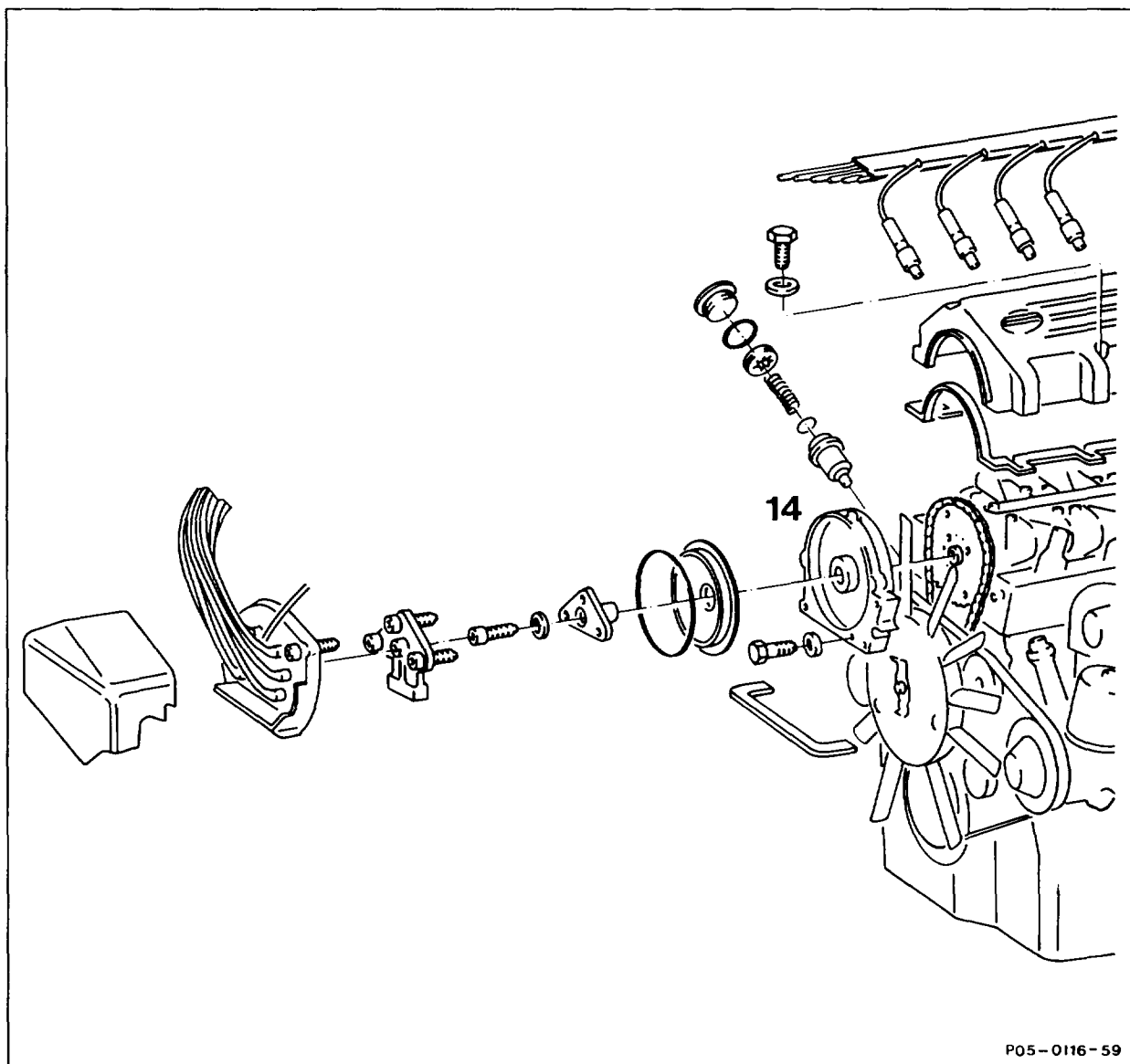


05-3200 Replacing timing chain

Preceding work:
 Front cover at top removed (01-2120).
 Chain tensioner removed (05-3100).

Operation no. of operation texts and work units or standard texts
 and flat rates
 05-7601



P05-0116-59

All spark plugs	.....	remove, install (15-1031)
Chain pin	.....	grind open (step 4).
New timing chain to old timing chain	.....	connect, draw in (steps 5 - 7).
New timing chain to rivet link	.....	connect (step 8).
Plate	.....	insert into rivet set 103 589 01 63 00 and rivet tool 000 589 58 43 00, press on (steps 9 - 13).

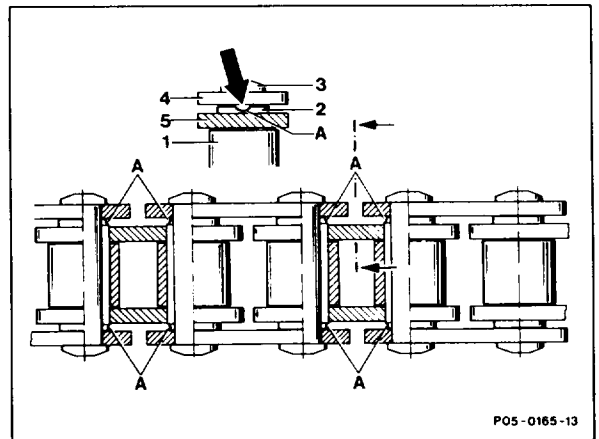
Riveting tool	take off, change over (step 14).
Pins of rivet link	rivet individually, 30 Nm (steps 15 and 16).
Installation	in the reverse order.

Note

Modifications to timing chain

The sleeves (2) have recesses (jogs, arrow and A) and widened sleeve ends.

This results in improved oil supply and reduced friction between sleeves (2) and pins (3).

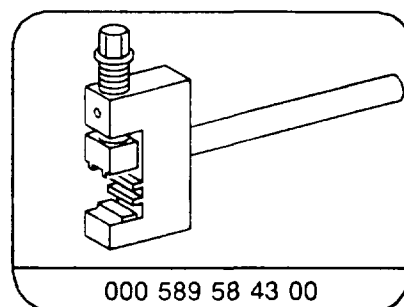
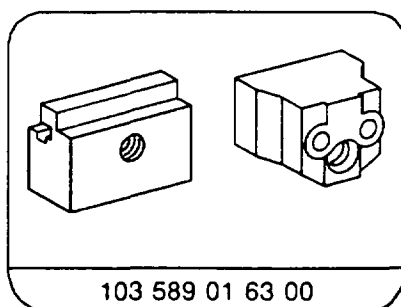
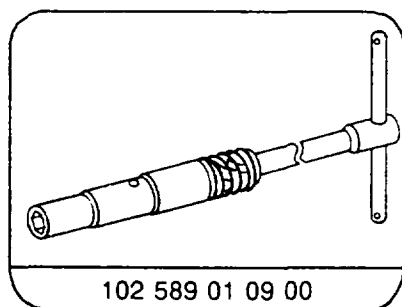


Improved timing chain, production breakpoint: 08/1988

Model	Engine	Engine End No.		Vehicle Ident End No.	
		manual transmission	automatic transmission	A	F
107.041	103.982	002026	008832	*	*
124.026	103.940	023017	051576	*	*
124.030 124.050 124.090	103.983	025192	130645	*	*
124.226	103.943	000298	000677	*	*
124.230 124.290	103.985	001409	005003	*	*
126.020	103.941	003581	012074	*	*
126.024 126.025	103.981	006008	064685	*	*
201.029	103.942	011021	014791	*	*

* not recorded

Special tools



Renewal

- 1 Detach all spark plug connectors.
- 2 Blow out spark plug recesses with compressed air.
- 3 Unscrew all spark plugs.

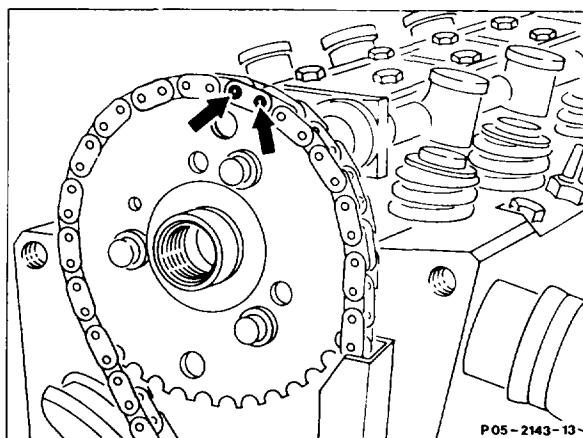
Installation instruction

Tightening torque 20 Nm.

4 Cover over the exposed part of the chain box with a clean cloth and grind open both chain pins (arrows) at a double link of the timing chain.

5 Attach new timing chain with the rivet link to the old timing chain.

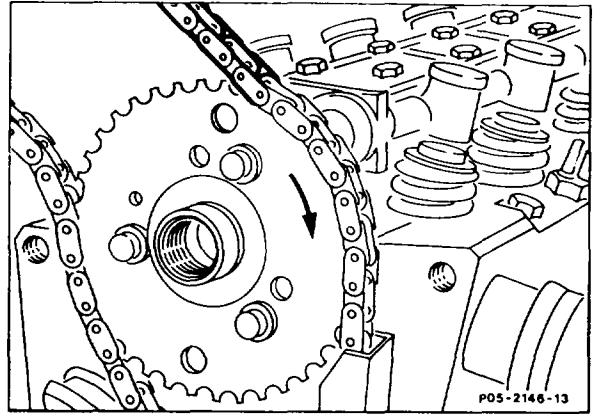
This is done by pressing out the ground-open double link.



6 Fit new timing chain connected to old timing chain onto the camshaft gear. Slowly rotate crankshaft in direction of rotation of engine.



The timing chain must remain meshed when turning the camshaft gear.

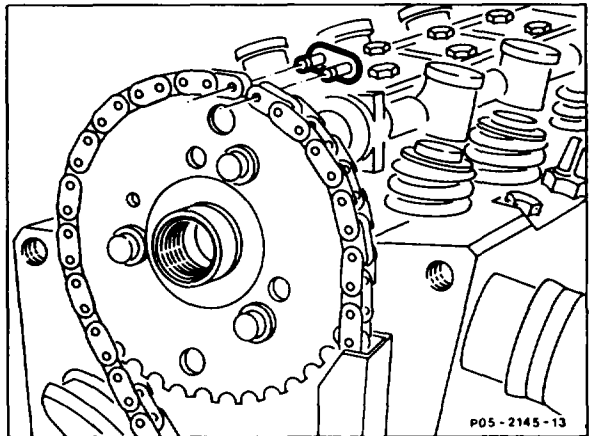


7 Pull out the exposed end of the old timing chain evenly to the same extent as the new timing chain is drawn in.

8 Continue rotating crankshaft long enough until the ends of the new timing chain can be connected to the rivet link.

Note

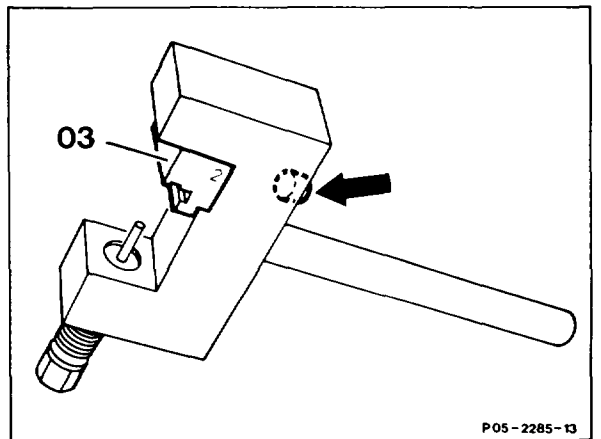
Rivet link must be inserted from behind.



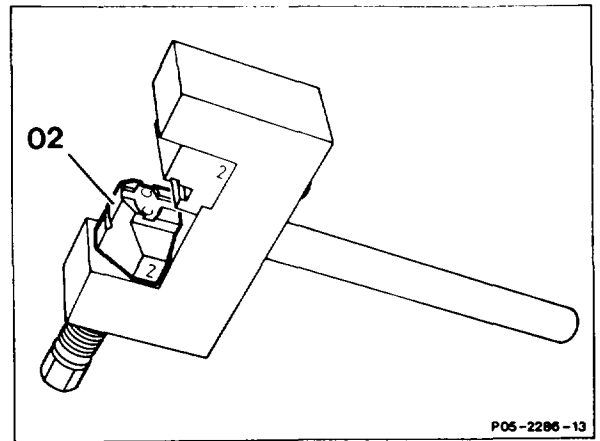
9 Insert cheek pieces (03) 103 589 01 63 00 into the rivet tool 000 589 58 43 00 as shown in drawing and tighten with the screw (arrow).

Note

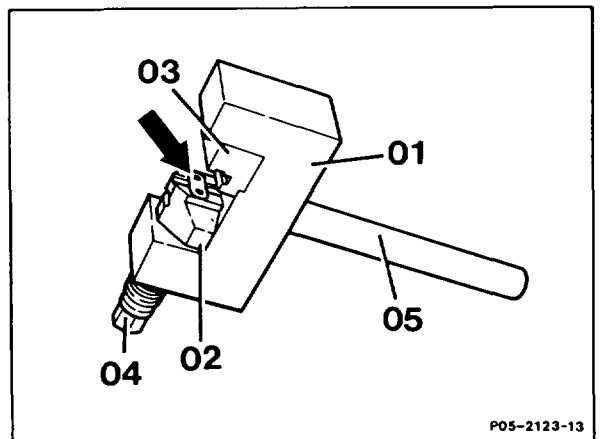
The number 2 is stamped on the side of the cheeks (03) 103 589 01 63 00.



10 Insert moving thrust piece (02)
103 589 01 63 00 with the number 2 into the
rivet tool 000 589 58 43 00 as shown in the
drawing.



11 Insert plate (arrow) into the moving thrust
piece (02) 103 589 01 63 00.

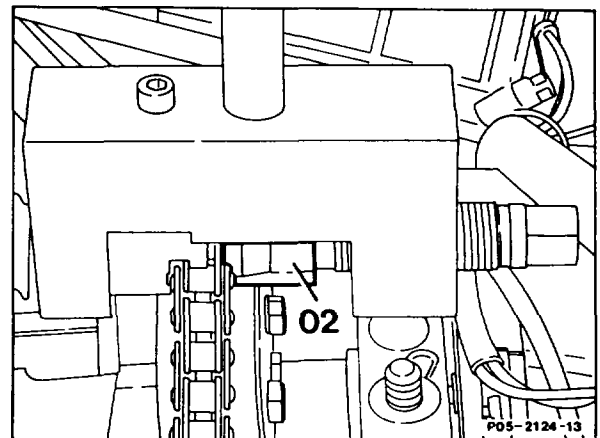


12 Fit web (arrow) onto both rollers on the rivet
link.

Note

Rivet heads of the rivet link pins must be guided
into the slot (C).

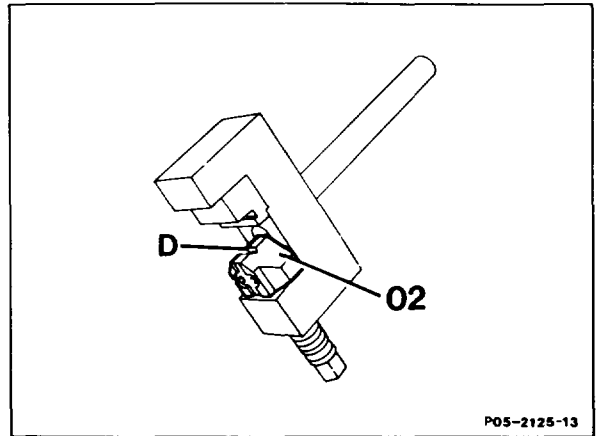
13 Screw in spindle (04) until a firm resistance
is felt.



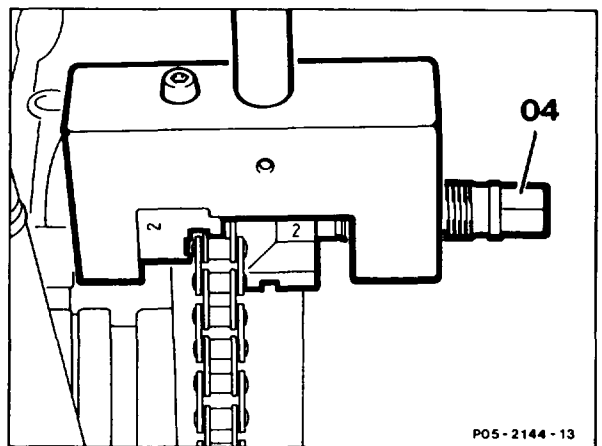
Note

When screwing in, ensure that the pins of the
rivet link can be guided into the holes of the
plate.

14 Take off riveting tool 000 589 58 43 00 and change over the moving thrust piece (02) 103 589 01 63 00 to the rivet profile (D).



15 Position riveting tool 000 589 58 43 00 exactly over centre of pin.
Rivet pins of the rivet link individually by tightening the spindle (04) to approx. 25 Nm.



16 Check riveting (arrows); re-rivet if necessary.
Installation is performed in the reverse order.

