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 [Conversion Calculator](#)**1995 Mercedes Benz E 320 Cabriolet (124 Chassis) L6-3199cc 3.2L DOHC (104)**[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Engine](#) → [Timing Chain](#) → [Service and Repair](#) → [Timing Chain Replacement and Riveting](#) ←

## Timing Chain Replacement and Riveting

[Notes](#)

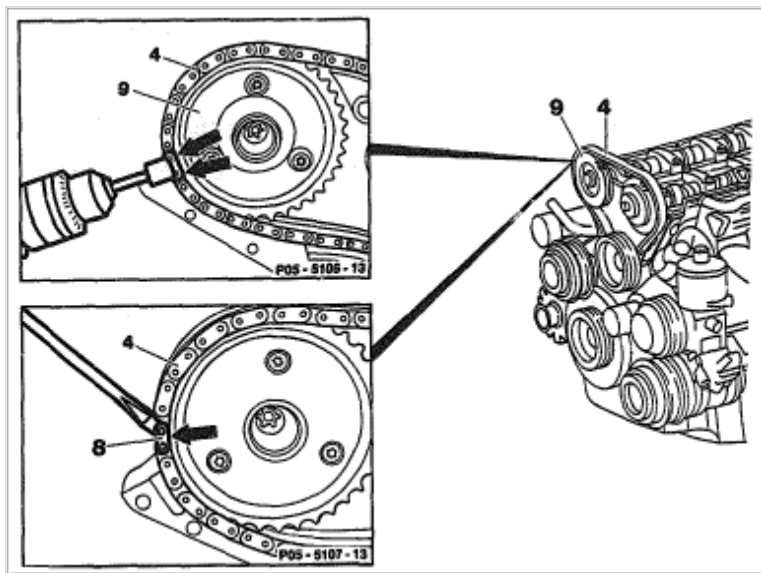
### Timing Chain Replacement and Riveting

#### Proceeding work

[Spark plugs](#) removed. Refer to **Powertrain Management - Ignition System - Spark Plug - Service and Repair - Procedures**

#### Replacing and riveting timing chain

**NOTE:** Numbers in parentheses ( ) indicate a component or tool in the associated illustration.

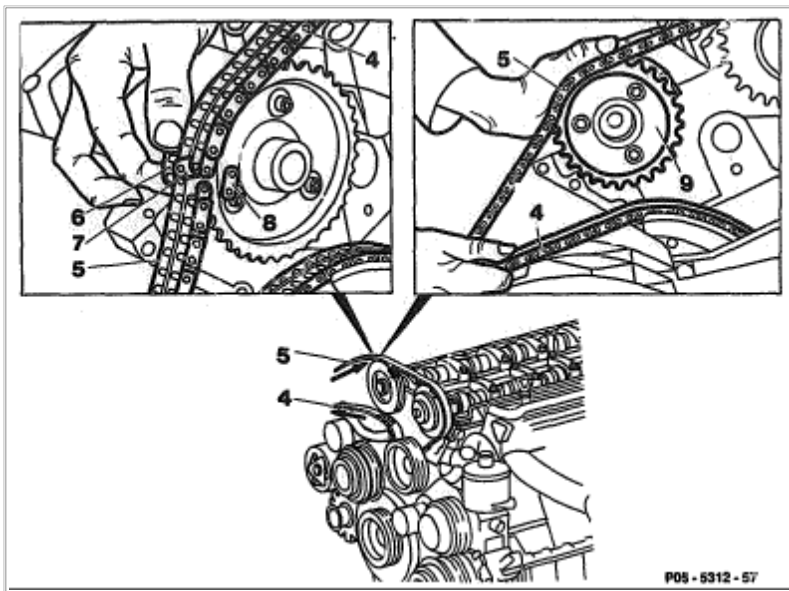


Zoom

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1. Remove chain tensioner. Refer to [Timing Components - Timing Chain Tensioner - Service and Repair - Procedures - Removing and Installing Chain Tensioner](#)  
[See: Timing Chain Tensioner\Service and Repair](#)

- 2a. On engines with HT [distributor](#), remove top guide rail. Refer to [Timing Components - Timing Cover - Service and Repair - Procedures](#) [See: Timing Cover\Service and Repair](#)
- 2b. On engines without HT [distributor](#), remove front cover and top guide rail. Refer to [Timing Components - Timing Cover - Service and Repair - Procedures](#) [See: Timing Cover\Service and Repair](#)
3. Cover chain box with clean cloth.
4. Grind open pins of timing chain link (arrows) over camshaft sprocket (9). Separate with chain separating tool 602 589 02 33 00 and thrust spindle 602 589 04 63 00 (2.9 mm).
5. Pry off plate (8) of timing chain (4) with screwdriver.
6. Press out ground open double link.



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7. Connect new timing chain (5) to old timing chain (4) with riveted link (6) and centre plate (7) (thickness 1.6 mm) and ground open outer plate (8).
8. Rotate [crankshaft](#) with wrench socket insert in direction of rotation of engine.

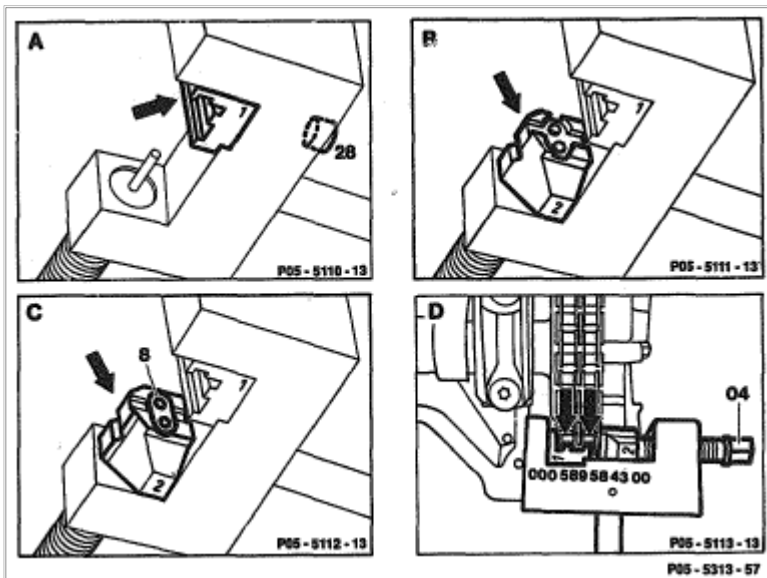
**NOTE:** Pay attention to different lengths of timing chains.  
 Engines 104.980/981 use chains of 130 links.  
 Engines 104.94/99 (2.8/3.6L and 3.2L) use chains of 126 links

9. Pull in new separated timing chain (5).
10. Hold timing chain meshed at exhaust camshaft sprocket (9) by hand when pulling in.
11. Pull out bottom free end (4) of timing chain from chain box.
12. Rotate [crankshaft](#) sufficiently until the end of the new timing chain can be connected

with the riveted link.

13. Connect new timing chain (5) to inserted link (6) and center plate (7).

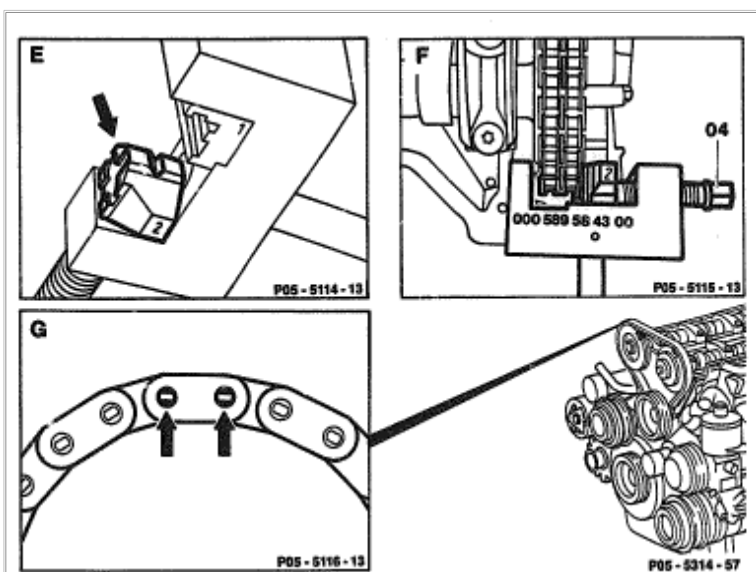
**NOTE:** Riveted links of the IWIS version chain should be matched to the IWIS timing chain and riveted links of the Renold version chain should be matched to the Renold timing chain. The identifications are stamped in each case on the outer plates of the timing chain.



Zoom

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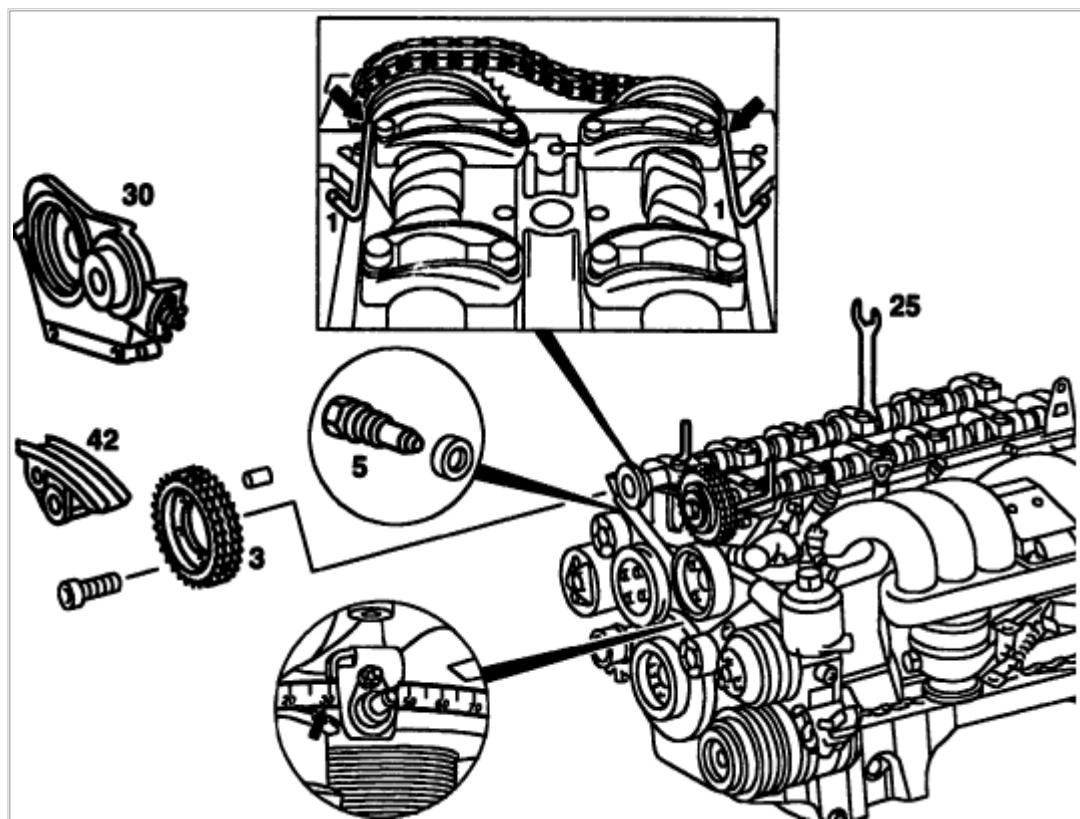
14. Insert jaw for duplex roller chain with insert 1 into pressing on tool and screw on with screw (28) (Fig. A).
15. Insert moving thrust piece for simplex roller chain with the insert 2 into pressing-on tool (Fig. B).



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16. Insert outer plate (8) of 1.2 mm thickness into moving thrust piece (Fig. C).
17. Fit webs (arrows) onto rollers at riveted link (Fig. D).
18. Screw in spindle (04) until tight resistance felt (Fig. D). When screwing in, ensure that the pins of the riveted link are inserted into the holes of the outer plate (8).
19. Take off pressing-on tool.
20. Turn over moving thrust piece with the insert 2 (riveting profile) (Fig. E).
21. Position pressing-on tool exactly over middle of pin (Fig. F).
22. Tighten spindle (04) to **30 Nm** (Fig. 5).
23. Rivet pins of inserted link (6) individually.
24. Inspect riveting. Re-rivet if necessary (Fig. G).
25. Adjust basic position of camshafts. Refer to [Camshaft, Engine - Adjustments](#) [See: Camshaft/Adjustments](#)
26. Install front cover and top guide rail. Refer to [Timing Components - Timing Cover - Service and Repair - Procedures](#) [See: Timing Cover/Service and Repair](#)
27. Install chain tensioner. Refer to [Timing Components - Timing Chain Tensioner - Service and Repair - Procedures - Removing and Installing Chain Tensioner](#) [See: Timing Chain Tensioner/Service and Repair](#)



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29. Check basic position of camshafts. Refer to [Camshaft, Engine - Testing and Inspection - Procedures](#) [See: Camshaft\Testing and Inspection](#)

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