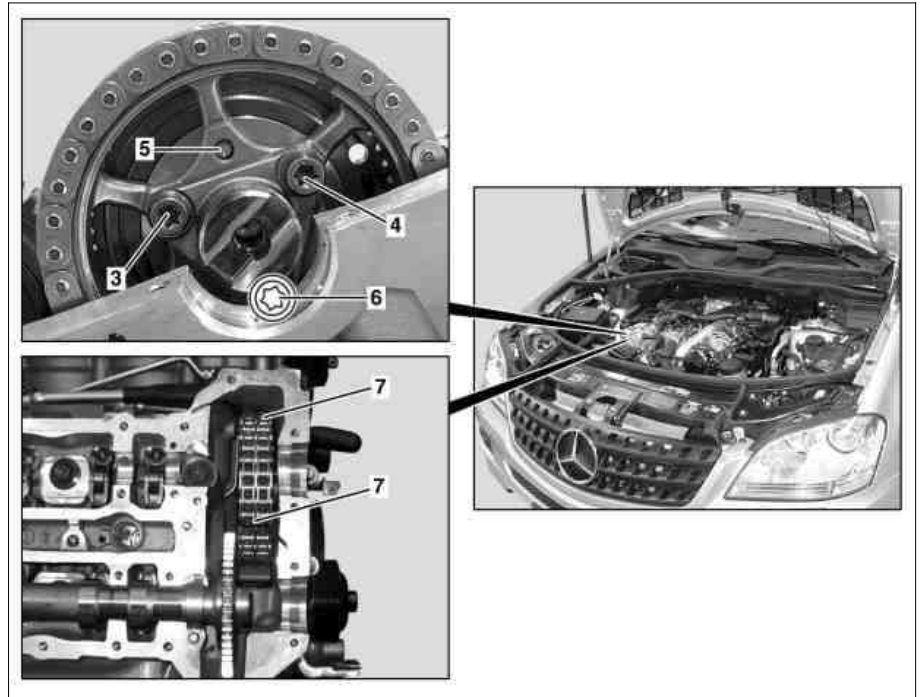
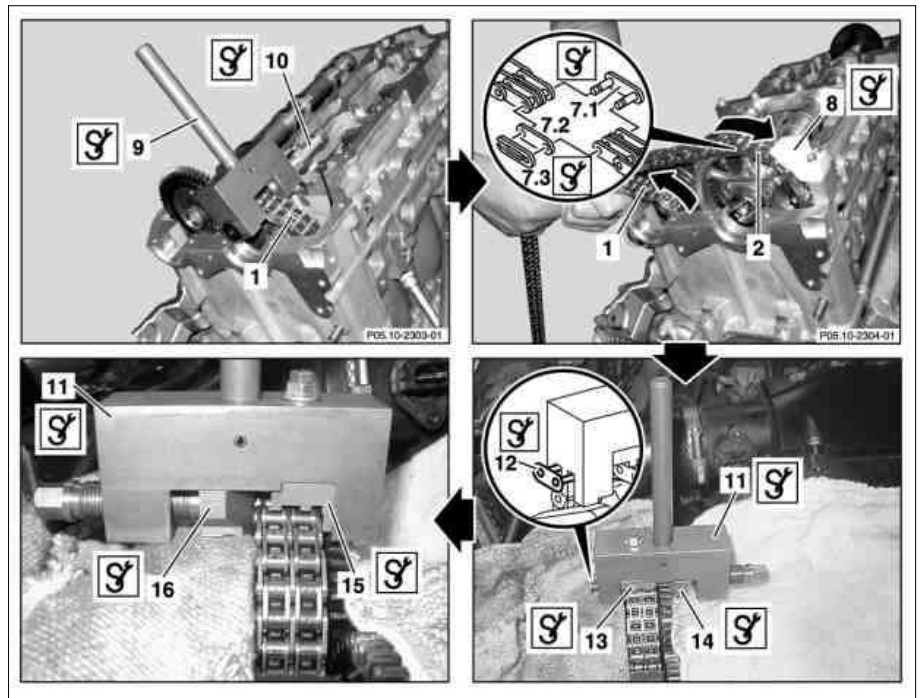


- 3 Screw
- 4 Bolt
- 5 Locking pin
- 6 Bolt
- 7 Cable tie



P05.10-2350-06

- 1 Old timing chain
- 2 New timing chain
- 7.1 Assembly clip-type fastener
- 7.2 Assembly outer plate
- 7.3 Assembly fuse
- 8 Holddown device
- 9 Chain separating tool
- 10 Thrust spindle
- 11 Rivet press tool
- 12 Centering fork
- 13 Assembly insert (number F5)
- 14 Assembly insert (number D9)
- 15 Assembly insert (number F1)
- 16 Thrust piece (digit D8)



P05.10-2302-06

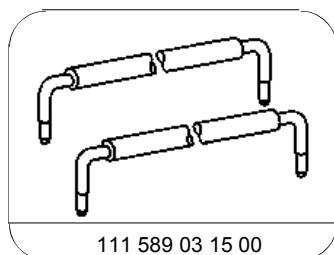
☒	Removing		
⚠ Danger!	Risk of injury caused by fingers being pinched or crushed when removing, installing or aligning hoods, doors, trunk lids, tailgates or sliding roof.	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A
1.1	Removes spring dome strut	Model 164.8 only i Remove spring dome strut at spring dome mounts.	AR62.30-P-2500GY
1.2	Remove partition wall between wheelhouses	Model 251 only	AR62.30-P-2400RT
2	Remove engine trim panel	i Installation: Reinstall the engine cover only after the engine has been checked for oil leaks.	
3	Remove right cylinder head cover		AR01.20-P-5014GZB
4	Fit holddown device kit at the camshafts	☒ Hold-down device kit	*642589003100

5	Unscrew bolt (6) for camshaft sprocket	The bolt (6) is located opposite locking pin (5) for the right intake camshaft.	
6	Position piston of cylinder 1 to ignition TDC	Crank the engine at the crankshaft in the running direction. The markings on the camshaft sprockets must lie opposite each other and the markings on the ring gear of the camshaft sprockets must be aligned with the cylinder head. The TDC marking of the vibration damper must be aligned with the bar of the timing case cover.	AR05.10-P-6858GZB
7	Fix old timing chain (1) with a cable tie (7) to camshaft sprocket		
8	Remove chain tensioner		AR05.10-P-7800GZB
9	Unscrew bolts (3, 4) from the camshaft sprocket		
10	Dismount the holddown device kit from the camshafts	Hold-down device kit	*642589003100
11	Remove the right intake camshaft		AR05.20-P-6992OM
12	Disconnect old timing chain (1)	Cover over timing case recess with a clean cloth. Parts, which have fallen into timing case recess, must be removed, in order to avoid damage to the engine. Case Chain separating tool Pressure screw Thrust pins	AR05.10-P-7601-01PI *602589009800 *602589023300 *602589046300 *602589046301
13	Check camshaft sprocket	Check camshaft sprocket for wear or damage. Replace if necessary.	
14	Fit right intake camshaft		AR05.20-P-6992OM
15	Fit holddown device kit at the camshafts	Hold-down device kit	*642589003100
16	Screw on camshaft sprocket	Just secure camshaft sprocket with one bolt. 	*BA05.10-P-1004-01L
17	Screw holddown device (8) onto the new timing chain (2) at the right cylinder head	Holddown device	*642589014000
18	Draw in new timing chain (2)	Replace assembly clip-type fastener (7.1), the outer assembly plate (7.2) and the assembly locking element (7.3) after fitting the new timing chain (2) with a rivet link, otherwise the new timing chain (2) could rip when the engine is running, leading to engine damage. To draw in the new timing chain (2), crank engine in direction of rotation at the crankshaft. To pull out old timing chain (1), connect old timing chain (1) to new timing chain (2). Remove cable tie (7) before cranking the engine. Case Assembly links Holddown device	AR05.10-P-7601-04PI *602589009800 *602589024000 *642589014000
19	Dismount holddown device (8) from new timing chain (2) at right-hand cylinder head	Holddown device	*642589014000
	Install		
20	Dismount holddown device kit from camshafts	Hold-down device kit	*642589003100
21	Fix new timing chain (2) with a cable tie (7) to camshaft sprocket		
22	Remove right intake camshaft		AR05.20-P-6992OM
23	Rivet new timing chain (2)	Cover over timing case recess with a clean cloth. Parts, which have fallen into timing case recess, must be removed, in order to avoid damage to the engine. Assembly inserts Riveting tool Case Assembly inserts Thrust piece	AR05.10-P-7601-02PI *BA05.10-P-1005-01L *112589096300 *602589003900 *602589009800 *602589026300 *602589036300
24	Fit right intake camshaft		AR05.20-P-6992OM

25	Fit holddown device kit at the camshafts	Hold-down device kit	*642589003100
26	Installing chain tensioner		AR05.10-P-7800GZB
27	Crank engine in direction of rotation	Remove cable tie (7) before cranking the engine.	
28	Check timing of engine	Retaining pins Retaining lock	AR05.10-P-6858GZB *111589031500 *112589034000
29	Install the right cylinder head cover		AR01.20-P-5014GZB
Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
30	Check for leaks with engine running		
31	Reinstall engine cover		
32.1	Install spring dome strut	Model 164.8 only Install spring dome strut at spring dome mounts.	AR62.30-P-2500GY
32.2	Install partition wall between the wheelhouses	Model 251 only	AR62.30-P-2400RT

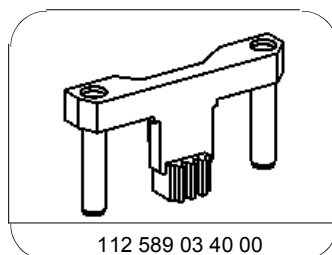
Timing chain, chain tensioner

Number	Designation		Engine 642
BA05.10-P-1004-01L	Bolt connecting camshaft sprocket to camshaft	Nm	18
BA05.10-P-1005-01L	Bolt for timing chain rivet element (reference value)	Nm	32



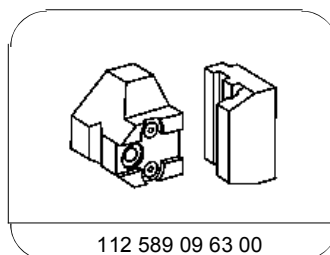
111 589 03 15 00

Retaining pins



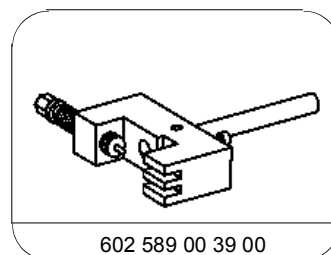
112 589 03 40 00

Retaining lock



112 589 09 63 00

Assembly inserts



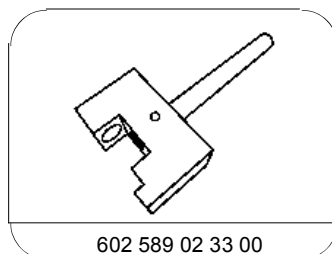
602 589 00 39 00

Riveting tool



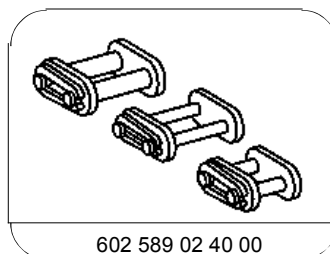
602 589 00 98 00

Case



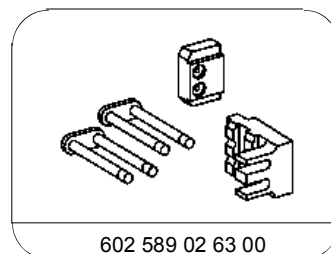
602 589 02 33 00

Chain separating tool



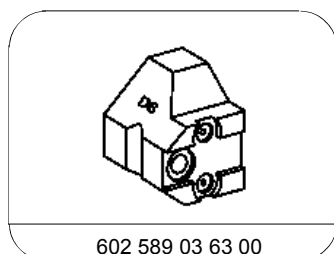
602 589 02 40 00

Assembly links

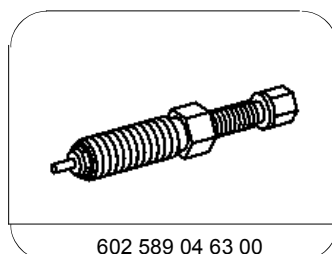


602 589 02 63 00

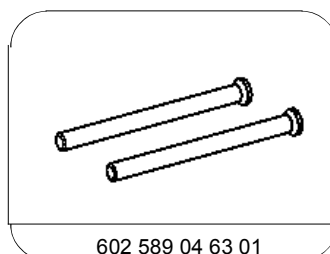
Assembly inserts



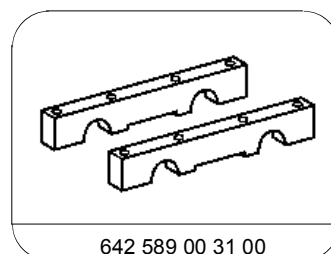
602 589 03 63 00



602 589 04 63 00



602 589 04 63 01



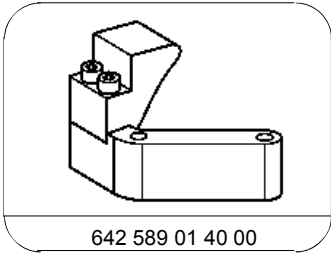
642 589 00 31 00

Thrust piece

Thrust spindle

Thrust pins

Holddown device kit



Holddown device