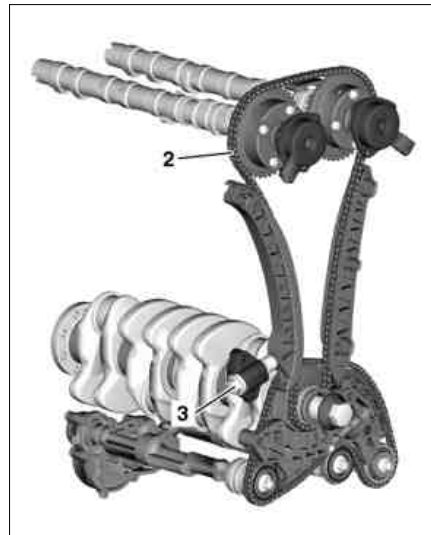
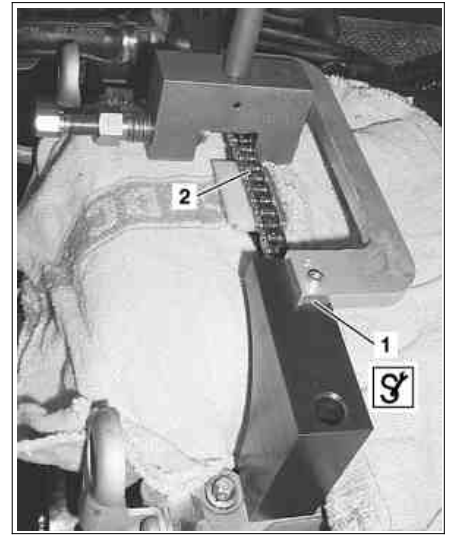


## ENGINES 271 in MODEL 203

- 1 Holding device  
2 Timing chain  
3 Chain tensioner



P05.10-2186-02






P05.10-2187-02

## Modification notes

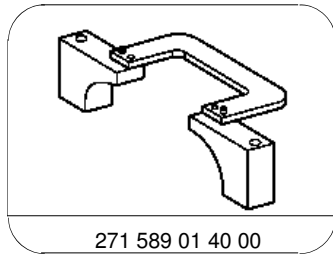
3.2.11	Replace special tool 602 589 04 63 00 and 602 589 04 60 01 by special tool 271 589 10 63 00	AR05.10-P-7601-01Q
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	Removing		
<b>Danger!</b>	<b>Risk of injury</b> caused by <b>fingers being pinched or crushed</b> when removing, installing or aligning hoods, doors, trunk lids, liftgates or sliding roof Open engine hood and raise to vertical position	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A  AR88.40-P-1000P
1			
<b>Danger!</b>	<b>Risk of explosion</b> caused by oxyhydrogen gas. <b>Risk of poisoning and caustic burns</b> caused by swallowing battery acid. <b>Risk of injury</b> caused by burns to skin and eyes from battery acid or when handling damaged lead-acid batteries Disconnect ground cable from battery Notes on battery	No fire, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and goggles. Only pour battery acid into suitable and appropriately marked containers.	AS54.10-Z-0001-01A  AR54.10-P-0003P AH54.10-P-0001-01A
2			
3	Remove ignition coils		AR15.12-P-2003T
4	Remove spark plugs Replace spark plugs		AP15.10-P-1580P
5	Remove cylinder head cover		AR01.20-P-5014QK
6	Remove alternator		AR15.40-P-5032QK
7	Remove chain tensioner (3)		AR05.10-P-7800QK
8	Mount retainer (1) onto cylinder head	Holding device	*271589014000
9	Disconnect old timing chain (2)	Cover timing case recess and cylinder head with clean rag. Holding device Case Chain separating tool Thrust spindle	AR05.10-P-7601-01Q  *271589014000 *602589009800 *602589023300 *271589106300
	<b>Install</b>		
10	Draw in new timing chain	Take rag out of timing case recess and cylinder head. Otherwise when cranking the engine, this can be drawn into the timing case recess. Holding device Case Assembly link	AR05.10-P-7601-04Q  *271589014000 *602589009800 *271589096300
11	Rivet new timing chain	Cover timing case recess and cylinder head with clean rag. Case Riveting tool	AR05.10-P-7601-02Q  *602589009800 *602589003900

		 Assembly inserts  Nm	*271589016300 *BA05.10-P-1002-01F
12	Install chain tensioner (3)		AR05.10-P-7800QK
13	Check basic position of camshafts		AR05.20-P-6010QK
14	Install alternator		AR15.40-P-5032QK
15	Detach retainer (1)		
16	Install cylinder head cover		AR01.20-P-5014QK
17	Install spark plugs Replace spark plugs		AP15.10-P-1580P
18	Install ignition coils		AR15.12-P-2003T
19	Connect ground cable to battery		AR54.10-P-0003P
20	Close engine hood		AR88.40-P-1000P

 **Timing chain, chain tensioner**

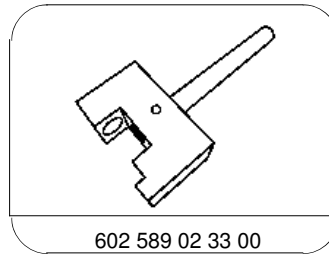
Number	Designation	Engine 271
BA05.10-P-1002-01F	Bolt for rivet element in timing chain (reference value)	Nm 32



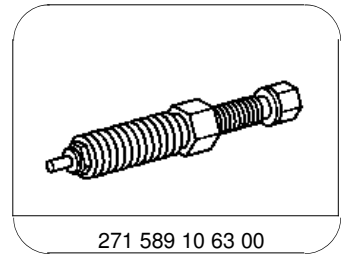
Holding device



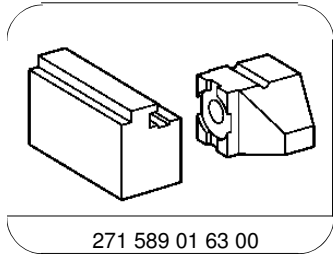
Case



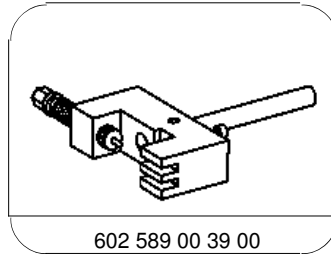
Chain separating tool



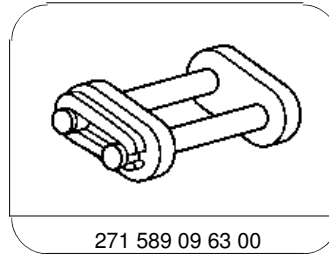
Thrust spindle



Assembly inserts



Riveting tool



Assembly link