

All European
 Luke Wright
 308 E. Parent
 48067 MI Royal Oak
 Phone no. +18002553876
 E-mail lwright@alleuro.com

Customer data

.....
Name

.....
Street

.....
Postcode *Town/City*

.....
Country

.....
Licence plate number *Kilometer/mileage reading*

.....
VIN

 **Timing belt data**

BMW 3 Ser.

Year of constr. 2006-2006 • 2996 ccm • 158 kW

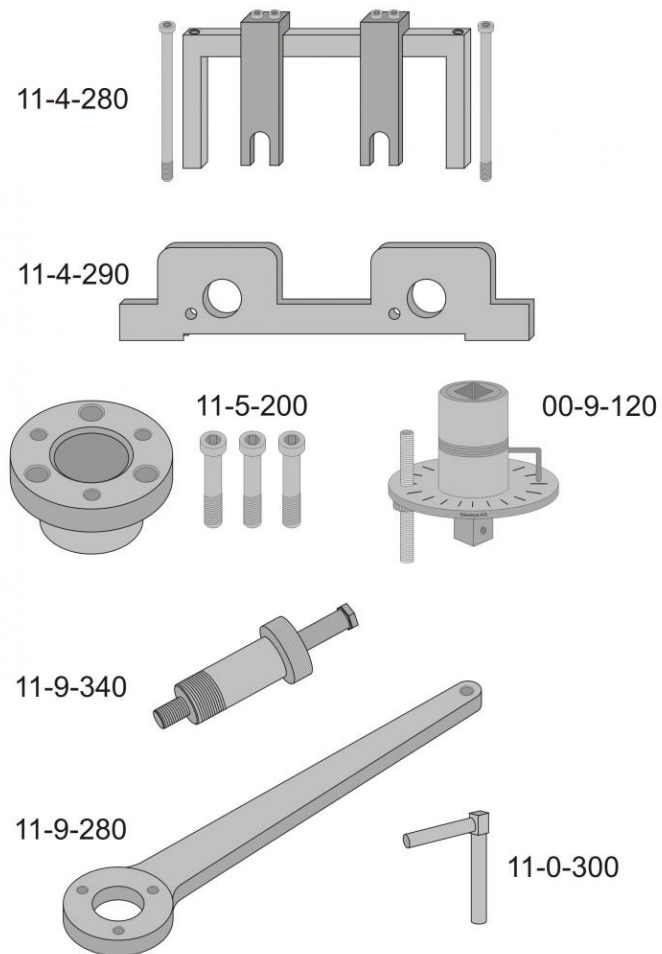
<https://www.hgs-data.com/index.php/timingbelt/index/vehicleId/48378>

Contents

1	Version: Timing chain	2
1.1	Tools	2
1.2	Dismounting 1	2
1.3	Dismounting 2	3
1.4	Dismounting 3	4
1.5	Mounting 1	5
1.6	Mounting 2	6
1.7	Mounting 3	7

1 Version: Timing chain

1.1 Tools

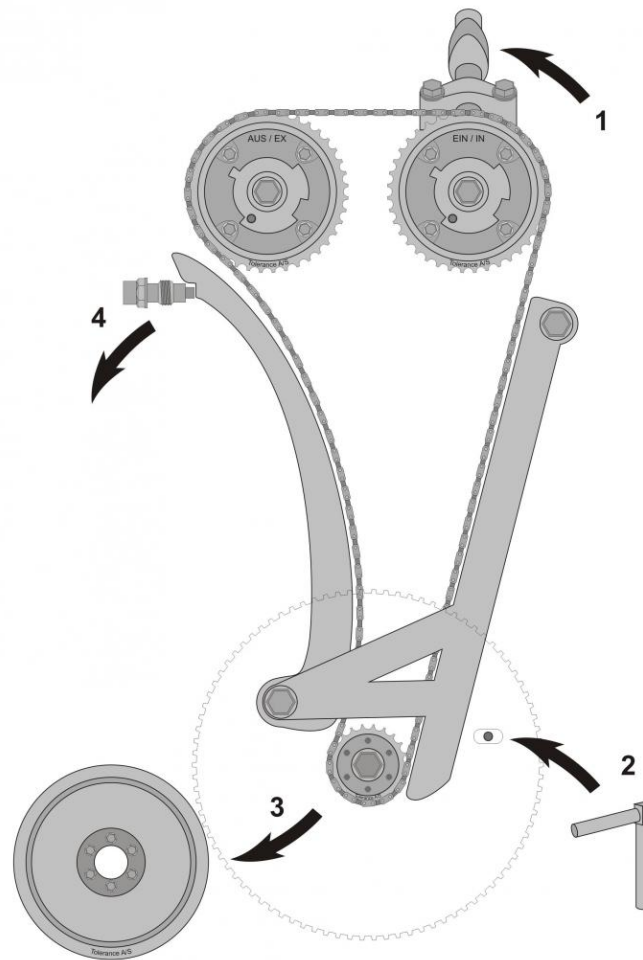


- 11-4-280 = Camshaft locking tool
- 11-4-290 = Camshaft-sprocket locking tool / VANOS unit
- 11-5-200 = Spacer tool to remove/install the crankshaft center bolt
- 00-9-120 = Angular tightening tool
- 119 340 = Chain tensioner
- 11-9-280 = Crankshaft sprocket holding tool
- 11-0-300 = Flywheel locking tool

1.2 Dismounting 1

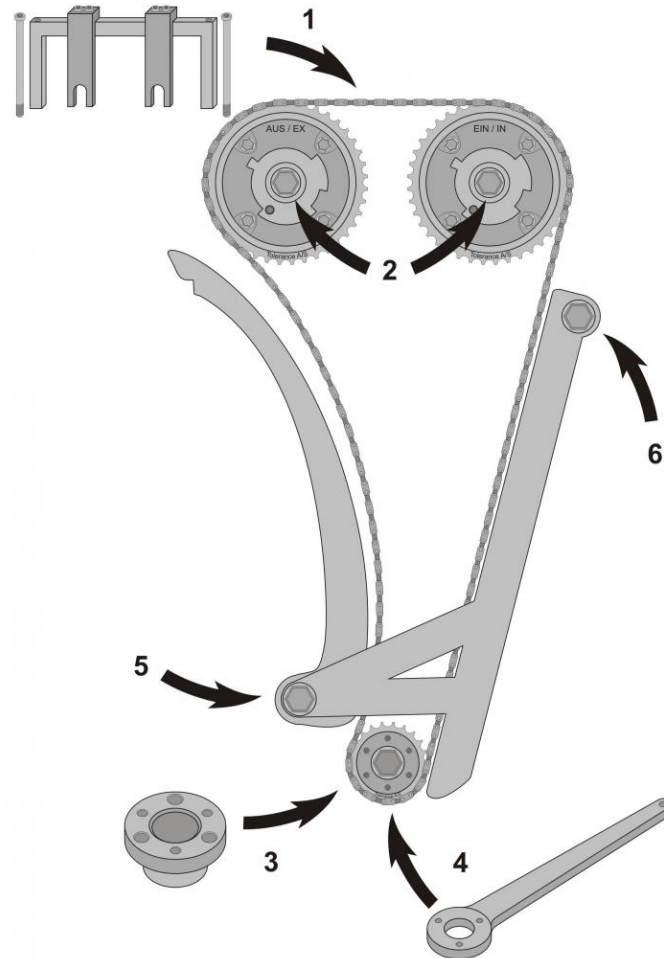
- Remove noise insulating plate.
- Dismount engine cover.
- Remove ignition coils.
- Dismount valve cover.
- Remove V-ribbed belt.
- Remove multi-belt tensioners.

1.3 Dismounting 2



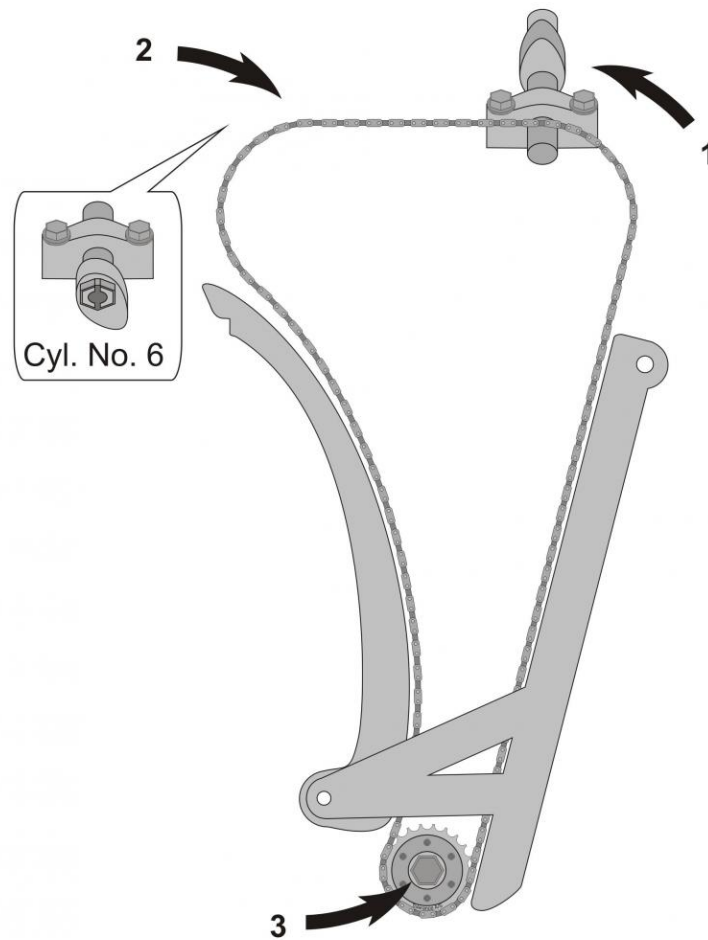
- Turn crankshaft in its rotational sense to compression TDC on cylinder 1.
- Make sure that the intake cams on cylinder 1 point up.
- Attach locking tool 11-0-300 in flywheel.
- Remove crankshaft pulley / vibration damper.
- Dismount chain tensioner.

1.4 Dismounting 3



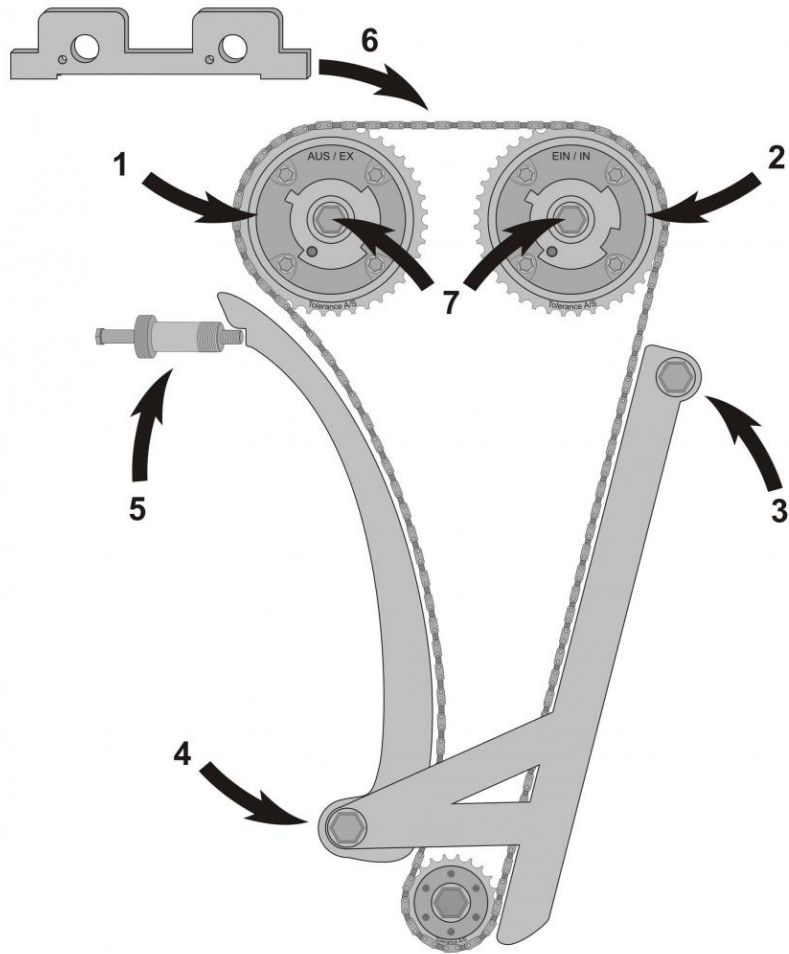
- Lock the camshafts with tool "11-4-280" (do not use this tool as a counter holding tool).
- Remove both camshaft gears (use counter hold).
- Install tool "11-5-200" at the crankshaft sprocket.
- Install counter holding tool "11-9-280".
- Remove the crankshaft bolt.
- Remove the crankshaft hub.
- Remove the chain and the crankshaft sprocket together with the chain guides.
- Examine chain sprockets and chain guides for wear.

1.5 Mounting 1



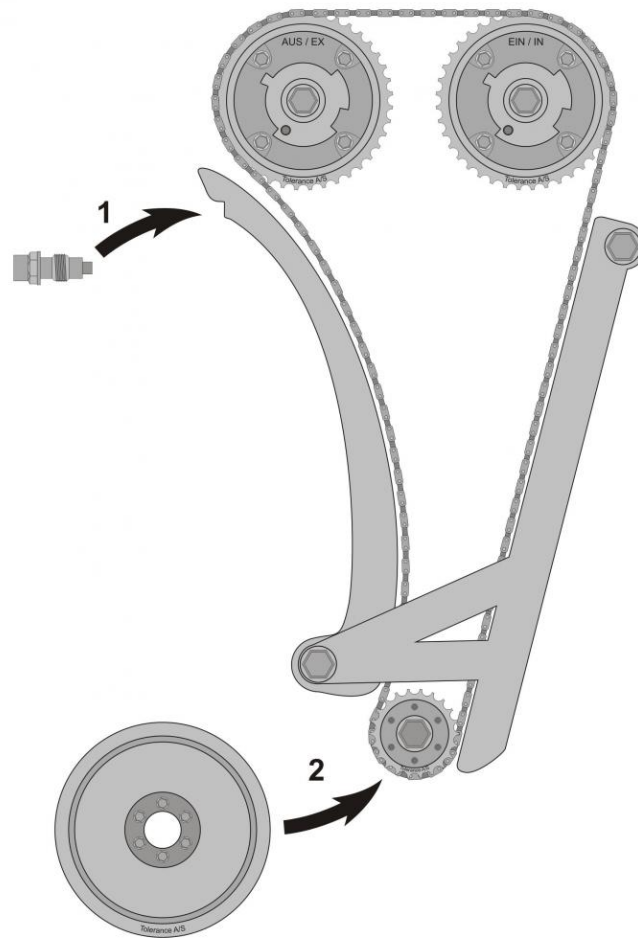
- Make sure that the intake cams on cylinder 1 point up.
- Make sure that the exhaust cams on cylinder 6 point down.
- Install the chain sprocket together with the chain and the chain guides.
- Install the crankshaft hub.
- Install the crankshaft center bolt. Tighten 100 Nm + 360° (use new bolt).

1.6 Mounting 2



- Mount both camshaft pulleys loosely, so that they can rotate without backlash.
- Tighten the chain guide 8 Nm.
- Put on the sealing ring/plug and tighten 25 Nm.
- Install tool "119 340" in the cylinder head.
- Tighten the chain with 0.6 Nm.
- Install the camshaft locking tool "11-4-290".
- Tighten the camshaft wheels 20 Nm + 180° (use new bolts and a counter holding tool).

1.7 Mounting 3



- Remove tool "119 340".
- Install the chain tensioner. Tighten the bolts 50 Nm.
- Install the crankshaft pulley/vibration damper. Tighten 25 Nm.
- Dismount all locking tools.
- Turn crankshaft 720° to compression TDC on cylinder 1.
- Control of camshaft timing.
- Install the cylinder head cover. Tighten 7 Nm + 90° (use a new bolt).
- Install the remaining parts in opposite sequence.