

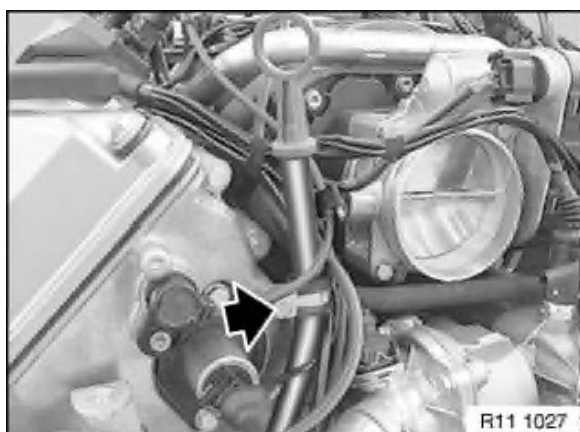
Disconnect plug connection to check valve.

Detach secondary-air line on timing case cover, top left and right.

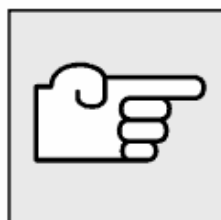
Detach secondary-air line on bracket and remove.

Installation:

Clean sealing faces on cylinder head, replace sealing ring on secondary-air line and apply a thin coat of grease as anti-friction agent.



Unfasten top screw from dipstick tube.

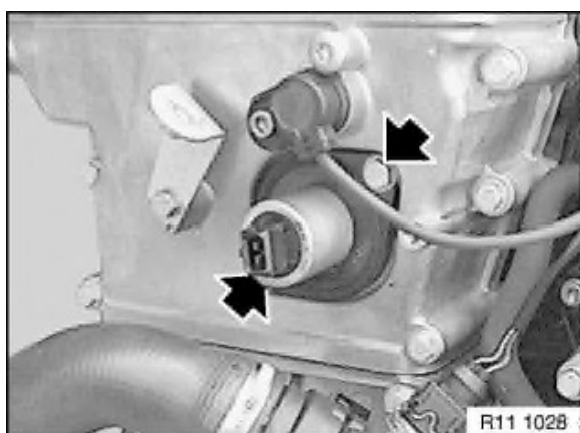


Remove right cylinder head cover. These tasks are described in the work step Removing and installing/sealing both cylinder head covers,

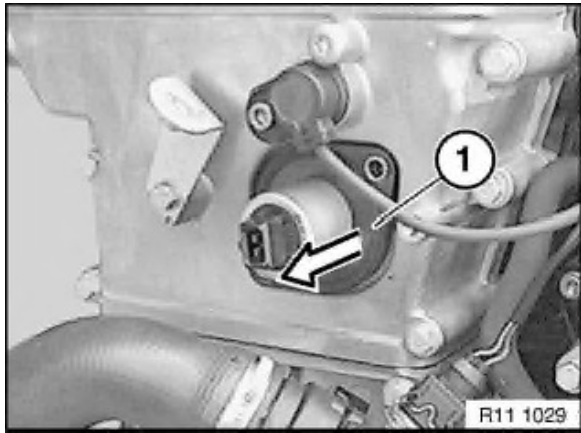
refer to 11 12 004.

Remove piston for chain tensioner,

refer to 11 31 090.



Release screws on sealing flange.

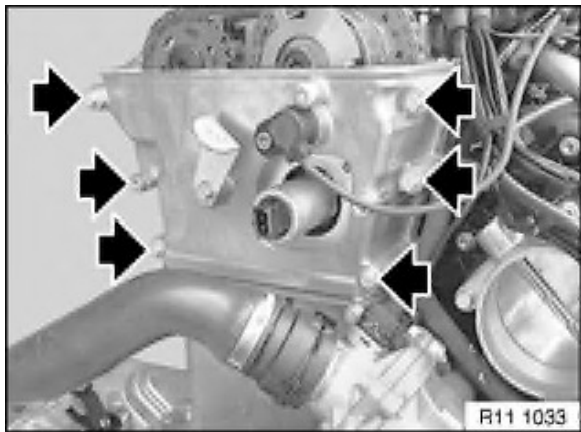


Note:

The sealing flange seals the timing case cover via the solenoid valve.

If necessary, clean solenoid valve with a cloth.

Remove sealing flange (1).



If necessary, remove camshaft sensor or disconnect plug connection to cable duct.

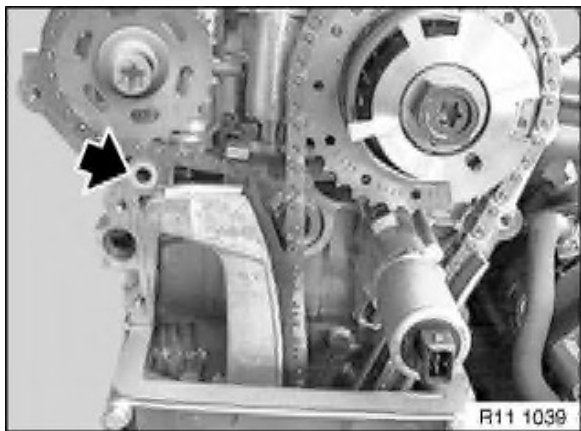
Release screws and remove timing case cover at top.



Remove rubber sealing strip.

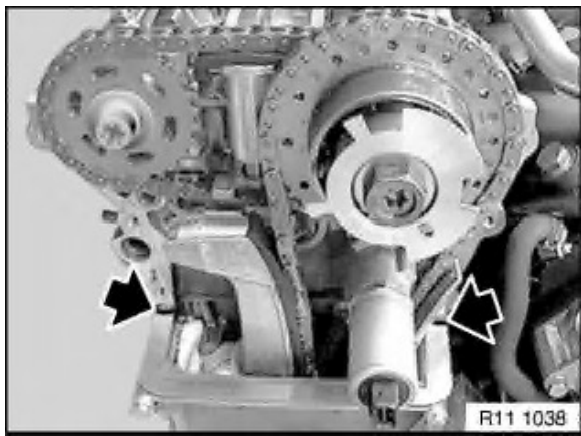
Installation:

Clean groove for rubber profile seal and sealing surfaces of remains of seal.



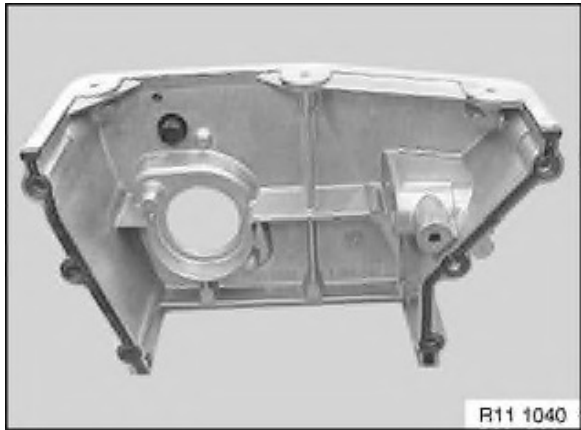
Installation:

Replace sealing ring in cylinder head for oil supply of chain tensioner.

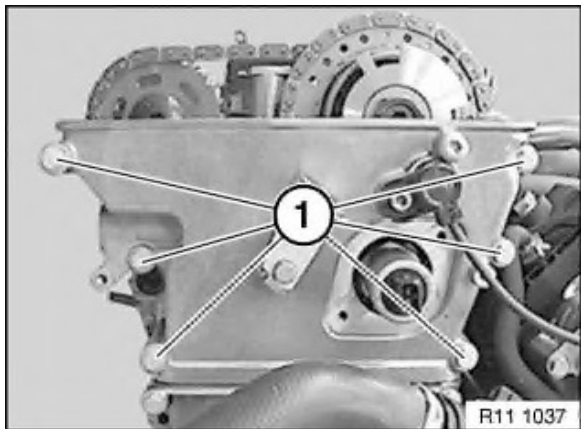


Installation:

Keep sealing faces clean and free of oil.
 Apply coat of Drei Bond 1209 to joint between cylinder head and lower timing case cover (refer to BMW Parts Service).



Seat new rubber seal in groove.



Installation:

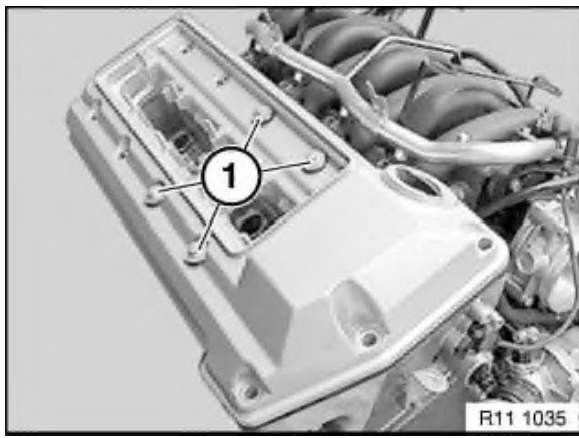
Ensure that seals are correctly seated.
 Press bow cover inwards and fit timing case cover.

Install screws (1) and fit flush with cylinder head.



Installation:

Remove outer and inner gasket from cylinder head cover.
 Insert special tool 11 6 431 from special tool kit 11 6 430 in groove of cover and fit cylinder head cover.



Installation:

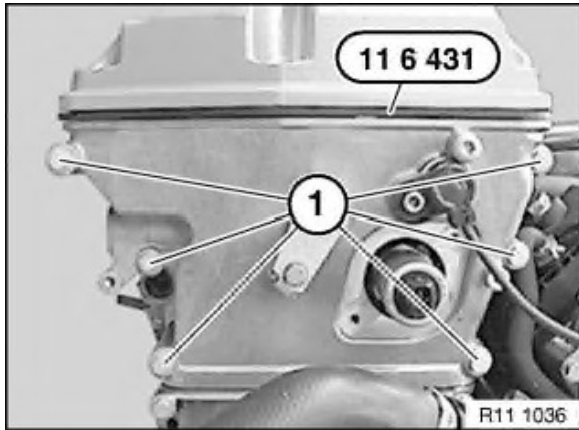
Install cover nuts (1) and tighten down uniformly in 1/2 turn steps.

Tightening Torque,

refer to Technical Data 11 12 11AZ.

Note:

The timing case cover is pressed down onto level of cylinder head by cylinder head cover.

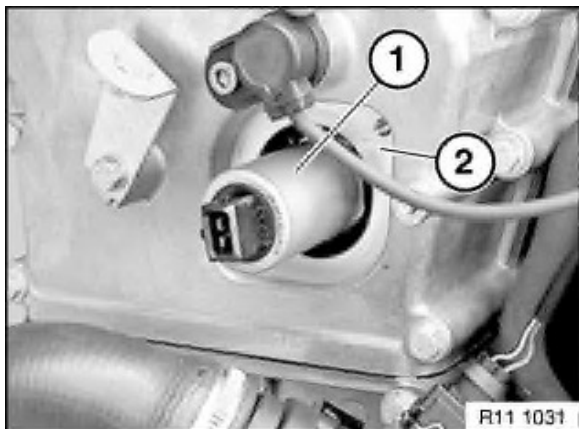


Installation:

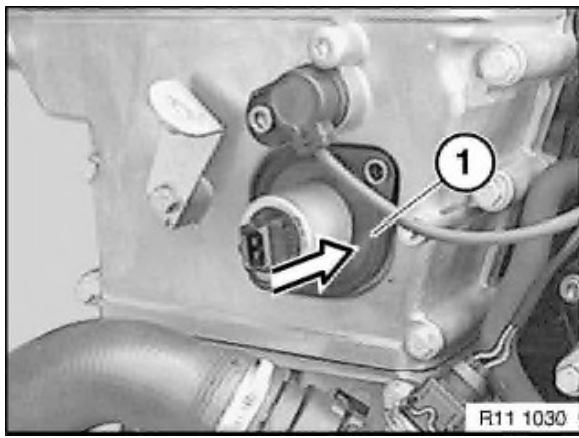
Tighten screws (1) on timing case cover in two passes.



Remove cylinder head cover and remove special tool 11 6 431.



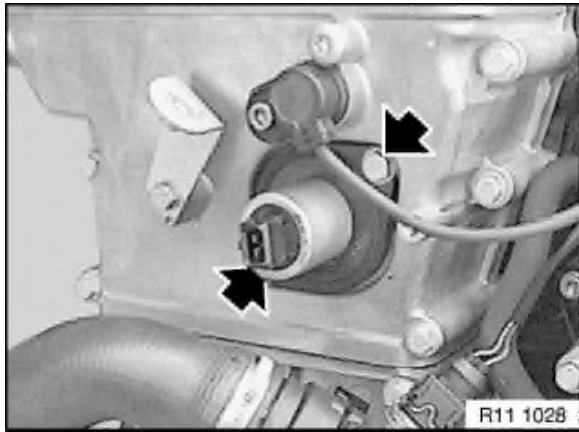
Clean solenoid valve (1) and sealing face (2).



Installation:

Check sealing flange (1), replace if necessary.

Apply a light coat of oil to inside of sealing flange (1) at sealing face to solenoid valve and carefully install.



Insert screws on sealing flange and tighten down.

Assemble engine.