

ET1556B

BMW (N20/N26/N52/N55)/ MINI COOPER (N13/N16) VALVE PRESSURE SPRING REMOVER/INSTALLER



IMPORTANT:READ THESE INSTRUCTIONS CAREFULLY.

※Warning! Ensure Health and Safety, local authority and general work shop practice regulations are adhered to when using tools.

※DO NOT use tool if damaged.

※Maintain tool in good and clean condition for best and safest performance.

※WARNING! The warnings, caution and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

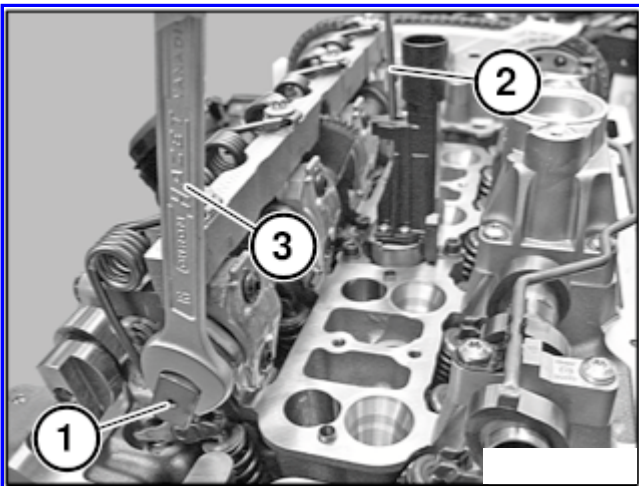
Description

- Application: BMW (N20/N26/N52/N55) AND MINI COOPER(N13/N16)
- OEM Equiv:117 110

Operating Instructions

Necessary preliminary work:

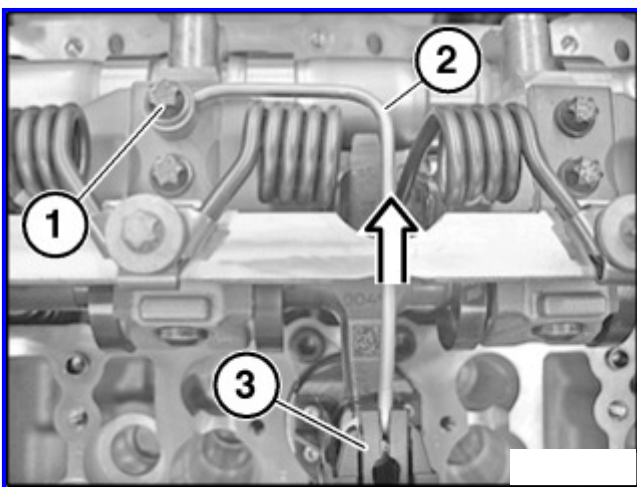
Remove all ignition coils and injector shafts.



Important!

Secure eccentric shaft (1) with open-end spanner (3) (risk of return stroke).

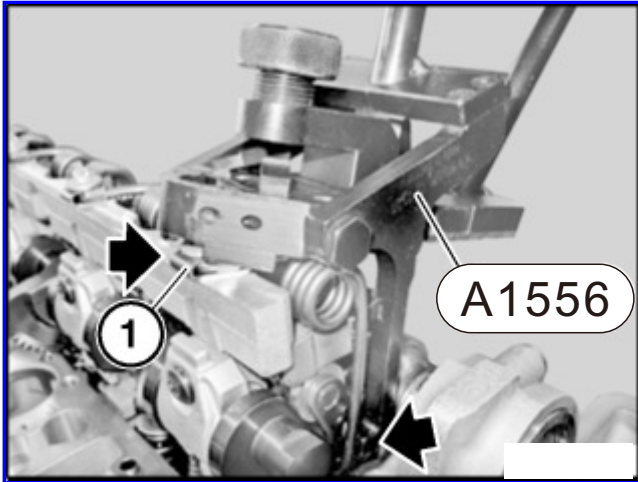
Slowly adjust eccentric shaft (1) to minimum lift via servomotor using 4-mm hexagon socket wrench (2) and open-end spanner (3).



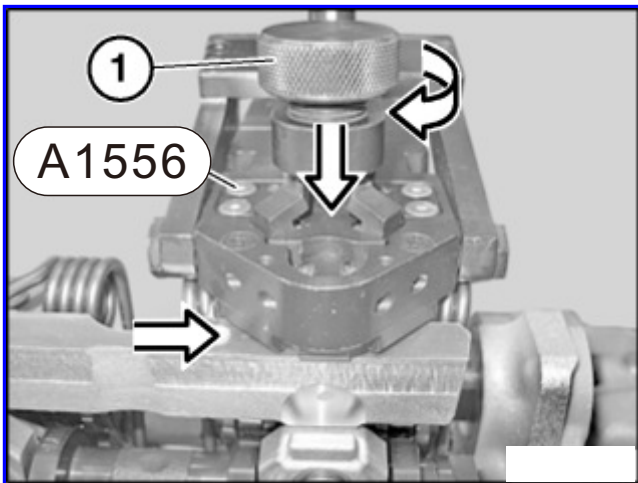
Release bolt (1) on the oil spray nozzle.

Tightening torque: 11 37 4AZ.

Unclip oil spray nozzle (2) from the bracket on the actuator drive (3) in direction of arrow.



Position special tool A1556 on return spring (1) (see arrows).



Warning!

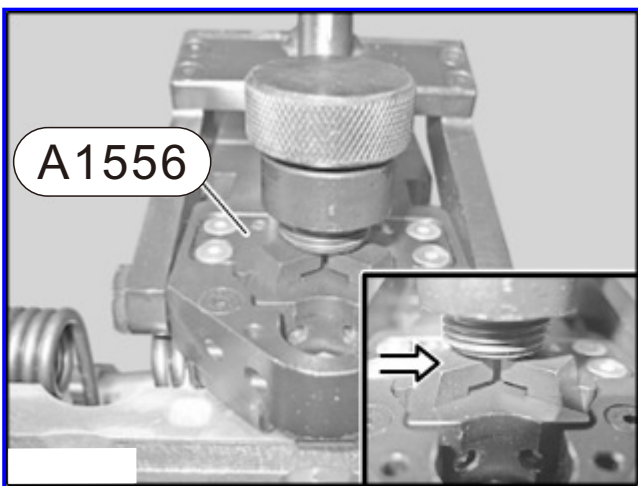
Risk of injury in event of incorrect use.

Important!

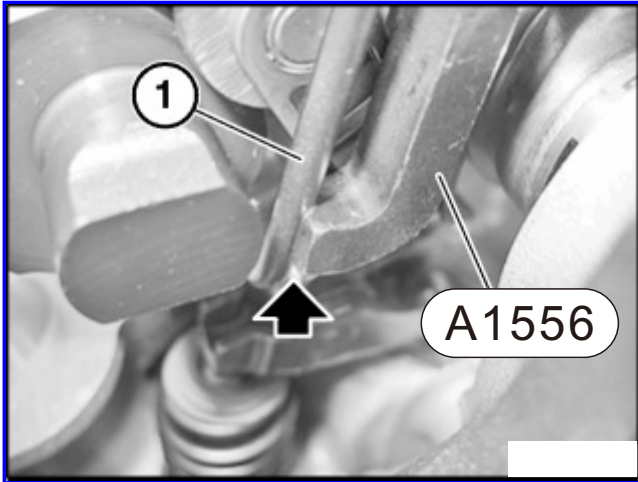
Improper handling. Risk of damage!

Place special tool A1556 flat on cylinder head.

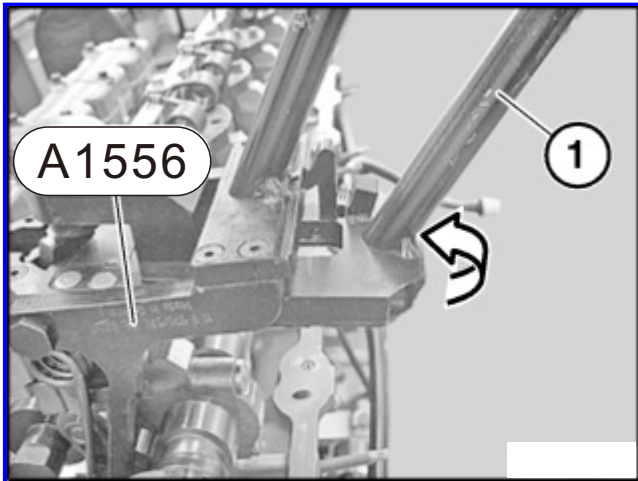
Turn knurled screw (1) in direction of arrow until both clamping levers secure return spring in gate.



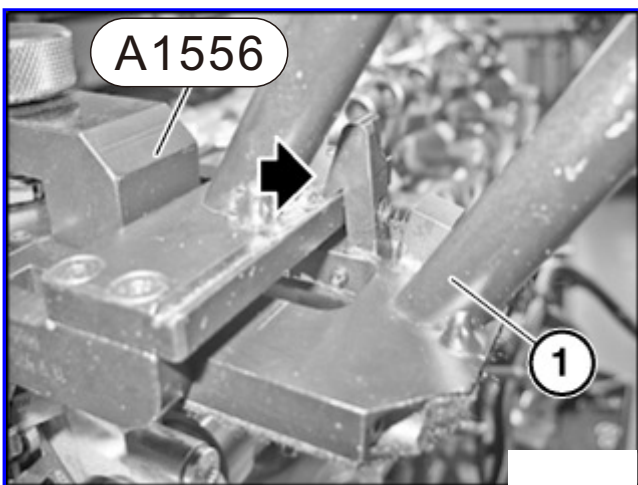
Return spring is correctly preloaded when both clamping levers are parallel to guide block.



Left and right return springs (1) must be positioned in lateral guide of special tool A1556.

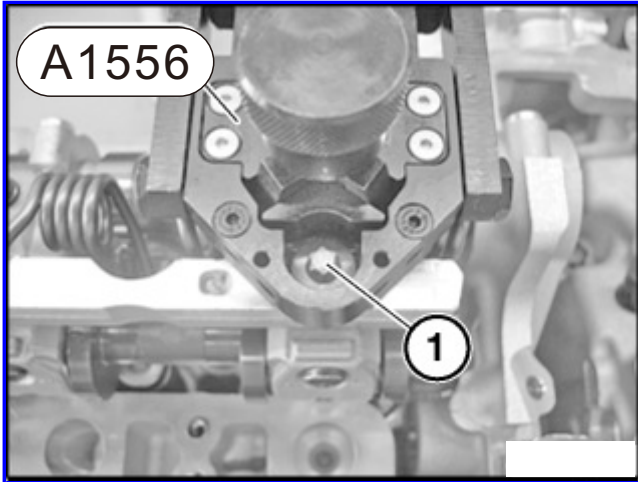


Preload return spring with lever (1) on special tool A1556 in direction of arrow.

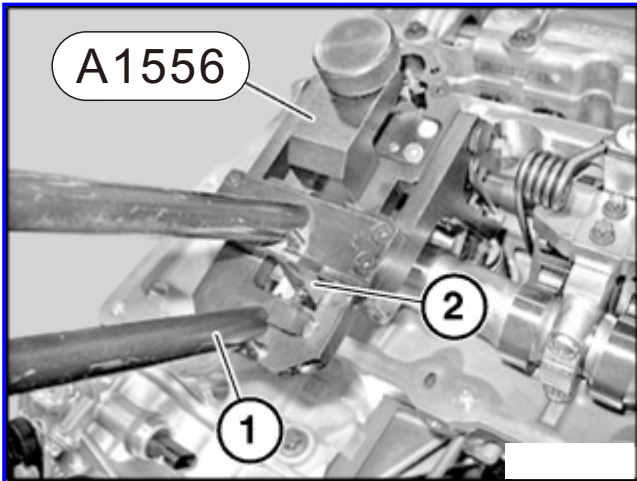


Lock special tool with catch on lever (1).

Important!
Screw connection on throttle return spring can only be released with secured special tool A1556.

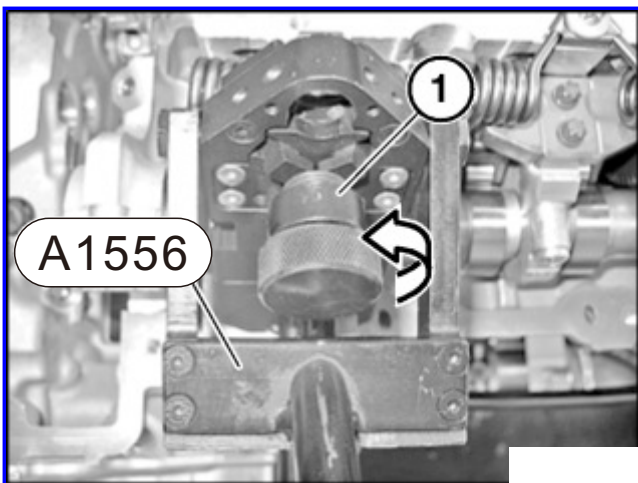


Release screw (1).

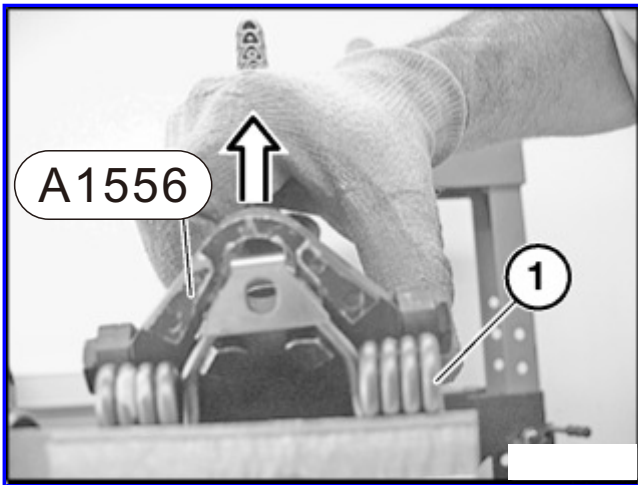


Warning!
Risk of injury in event of incorrect use.
Lever (1) is preloaded.

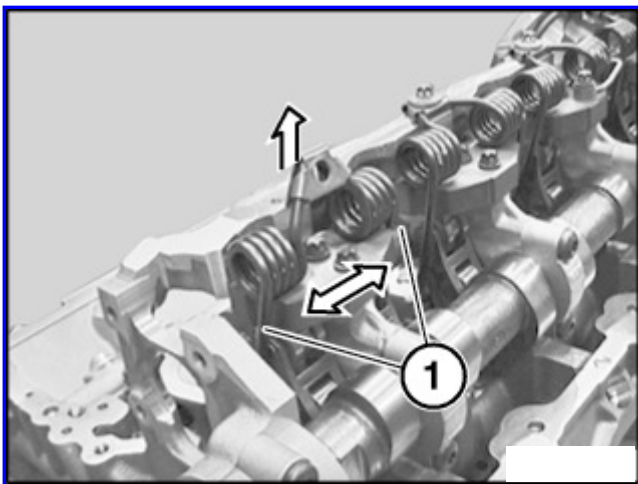
Important!
Improper handling. **Risk of damage!**
Secure lever (1).
Press back latching hook (2).
Return spring tension can now be released.



Release knurled screw (1) on special tool
A1556 in direction of arrow.



Release special tool A1556 in direction of arrow from return spring (1).



Press return spring (1) apart.
Remove return spring (1) upward.

Application:

2011 - 2013 BMW - 135i
 2013 - 2013 BMW - 135is
 2006 - 2006 BMW - 325i
 2006 - 2006 BMW - 325xi
 2006 - 2006 BMW - 330i
 2006 - 2006 BMW - 330xi
 2011 - 2012 BMW - 335Cic
 2011 - 2014 BMW - 335i
 2011 - 2012 BMW - 335xi
 2006 - 2007 BMW - 525i

2006 - 2007 BMW - 525xi
 2006 - 2007 BMW - 530i
 2006 - 2007 BMW - 530xi
 2011 - 2014 BMW - 535i
 2012 - 2014 BMW - 640i
 2013 - 2014 BMW - X1 xDrive 35i
 2011 - 2014 BMW - X3 xDrive 35i
 2011 - 2014 BMW - X5 xDrive 35i
 2006 - 2008 BMW - Z4 3.0i
 2006 - 2008 BMW - Z4 3.0si