

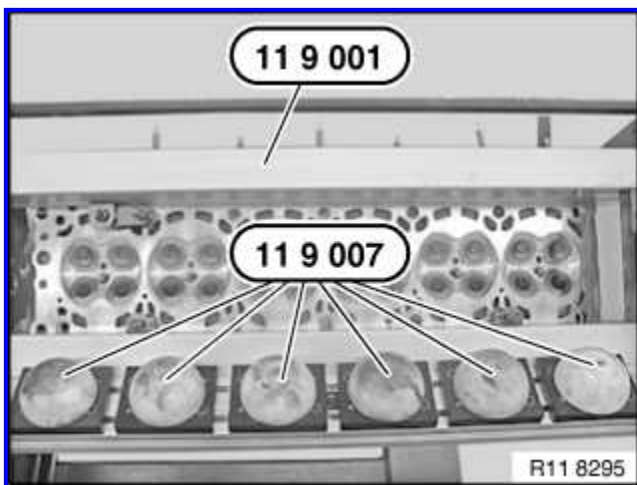
11 34 715**Replacing all valve springs (N55)****Special tools required:**

- [11 4 481](#)
- [11 4 482](#)
- 11 8 841
- 11 8 842
- [11 9 000](#)
- [11 9 007](#)

*Necessary preliminary tasks:*

- Remove [cylinder head](#).
- Remove [exhaust camshaft](#).
- Remove [intermediate lever](#).
- Remove [intake camshaft](#).
- Remove [rocker arm](#).

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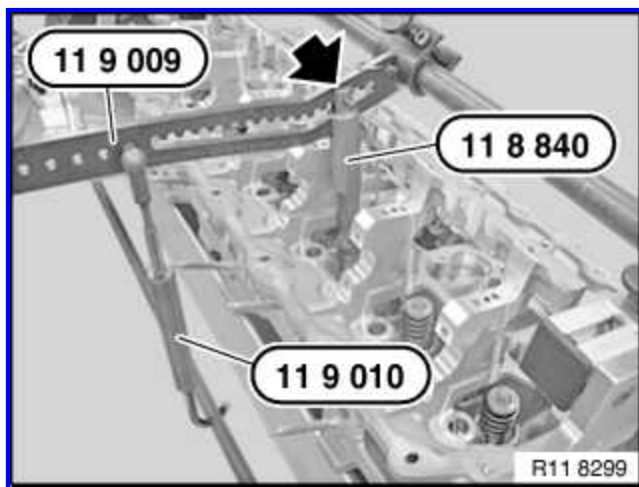
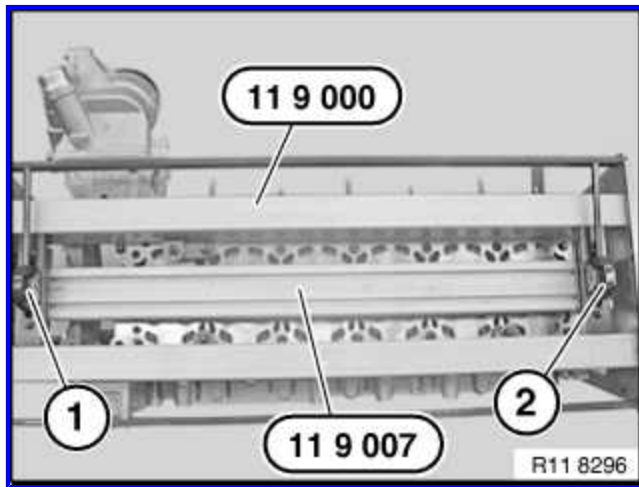


Place cylinder head on special tool [11 9 000](#).

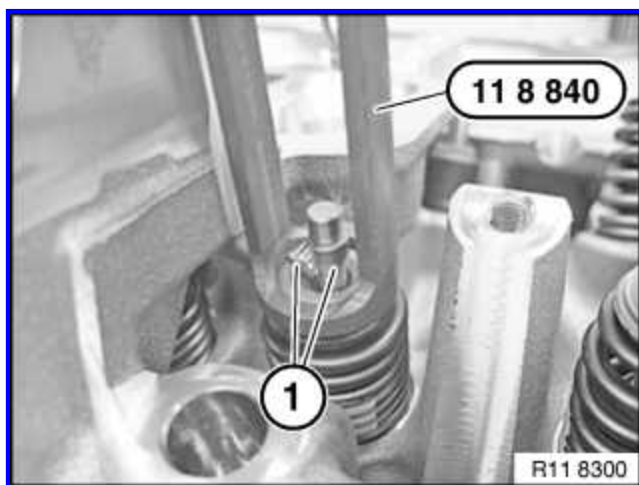
Align special tool [11 9 007](#) on particular combustion chamber.

Position special tool [11 9 007](#) on cylinder head.

Push locks (1 and 2) toward inside and preload via eccentric shaft.



Press down **intake valve** with special tool 11 8 841.

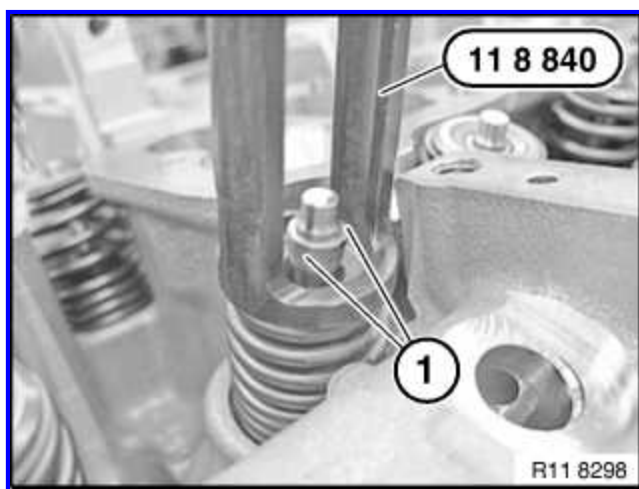
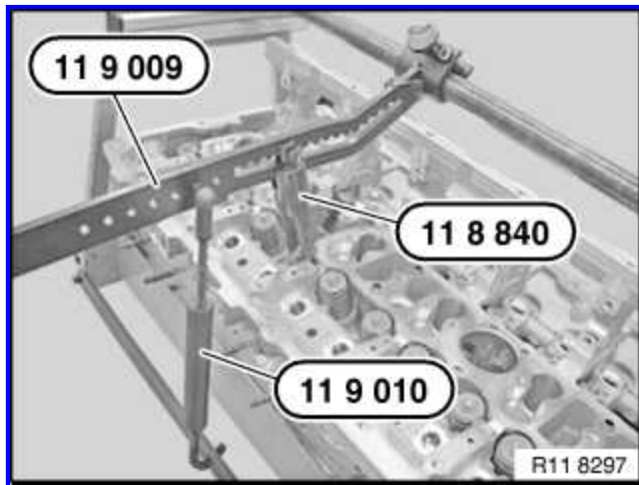


Remove valve key (1) with a magnet.

Remove valve spring with spring cups.

If individual components are to be reused, they must be placed in neat order in special tool [11 4 481](#).

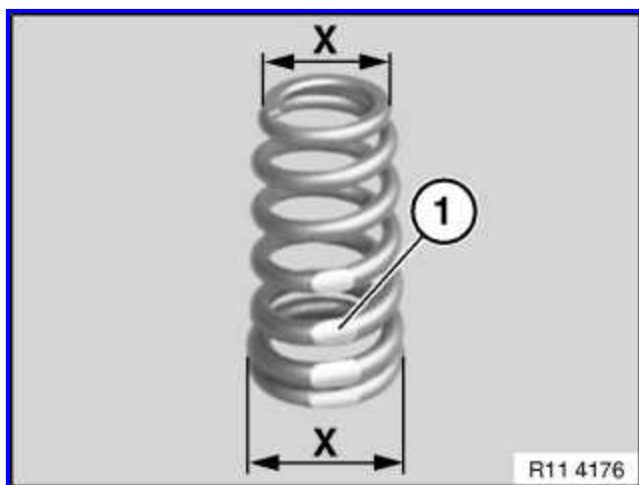
Press down **discharge valve** with special tool 11 8 842.



Remove valve key (1) with a magnet.

Remove valve spring with spring cups.

If individual components are to be reused, they must be placed in neat order in special tool [11 4 482](#).



Important!

Incorrect assembly possible.

Incorrect installation will result in valve spring breakage.

Risk of mixing up the valve springs for the inlet and exhaust valves.

Valve springs are marked in colour (1).

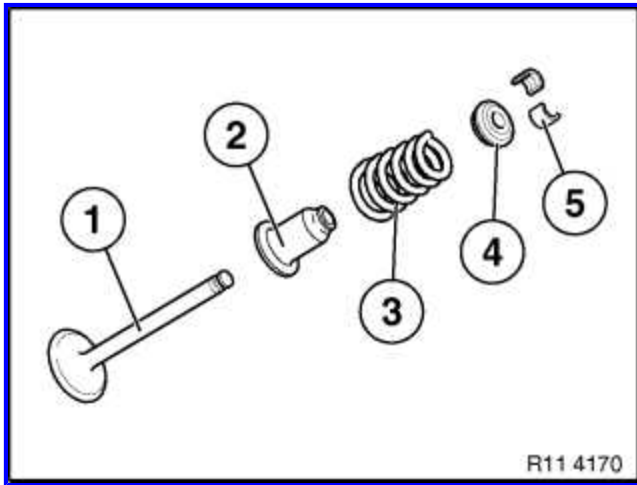
Colours for intake valves:

- Green/blue
- Yellow/Blue

Colours for discharge valves:

- Green/white
- Yellow/white

Install the valve spring so that the larger diameter points to the lower spring cup.



Arrangement:

- 1) Valve
- 2) Valve stem seal with lower spring cup
- 3) Valve spring
- 4) Upper spring cup
- 5) Valve keys



Assemble engine.

Check function of Digital Engine Electronics; if necessary, readjust uniform mixture distribution.