



MODEL

F22 (230i Coupe)	F23 (230i Convertible)	F30 (330e iPerformance, 330i Sedan)	F31 (330i Sports Wagon)
F32 (430i Coupe)	F33 (430i Convertible)	F34 (330i Gran Turismo)	F36 (430i Gran Coupe)
F39 (X2)	F48 (X1)	G01 (X3 xDrive30i)	G02 (X4 xDrive30i)
G12 (740e iPerformance Sedan)	G30 (530e iPerformance, 530i Sedan)	I12 (i8 Coupe)	I15 (i8 Roadster)

INFORMATION

The VANOS central valve and corresponding fastening bolt, located at the gear-driven end of each camshaft, can consist of three different design versions since the introduction of the “B” designation 3 and 4 cylinder modular engines as of 5/2014. The third design version was fully phased in by 5/2018.

The central valve must be compatible with the camshafts and the VANOS actuators within the same production period. The central valve fastening bolt diameters and thread pitch changes with each central valve version, preventing it from being assembled correctly if components are mixed from a different version.

Determine the VANOS hardware versions before ordering any replacement parts.

- Remove the VANOS actuators (refer to Repair Instruction 11 36 655 “Removing and installing/replacing both actuators”).
- Locate the VANOS central valve Part Number (P/N) per the table below.
- Confirm the P/N shown in the illustrations below using ETK (EPC electronic parts catalog) or AIR per the vehicle’s production date.

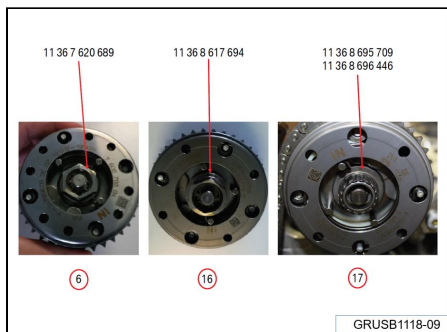
VANOS central valve style	Illustration #	Central valve P/N (verify in ETK/EPC)	Visual identification
Long	6	11 36 7 620 689	P/N on the hex-shaped bolt head
Short	16	11 36 8 617 694	P/N on the collar underneath the hex-shaped bolt head
Deep-drawn*, early	17	11 36 8 695 709	multi-toothed bolt head
Deep-drawn*, late	17	11 36 8 696 446	multi-toothed bolt head

*Refers to the sheet metal manufacturing process.

All three of the VANOS central valve designs are shown (circled), though only one design is utilized per engine.



GRUSB1118-08



GRUSB1118-09



Note:

If the VANOS central valves, VANOS actuators, or camshafts are replaced due to valvetrain repairs:

- Use the matching date ranges shown in ETK
- If the integration level is 18-03-500 or higher: No programming is required.
- If the vehicle Integration level is **lower than** 18-03-500: Program and code the vehicle using the ISTA 4.10.13 or higher.



Note:

If the cylinder head needs to be replaced, the new head will be delivered with camshafts designed for either the “short” or the “deep-drawn” VANOS central valves. Make certain to order and install the corresponding, matching VANOS adjusters and VANOS central valves (refer to ETK)

WARRANTY INFORMATION

Not applicable.