

Weistec M156/M159 ENGINE

Head Stud Installation Guide



 **WEISTEC|ENGINEERING**

- 2007-2011 S63 AMG
- 2007-2011 ML63 AMG
- 2007 R63 AMG
- 2007-2008 CLK63 AMG
- 2008 CLK63 Black Series
- 2007-2011 CLS63 AMG
- 2008-Present C63 AMG (Sedan and Wagon)
- 2007-Present E63 AMG (Sedan and Wagon)
- 2008-2011 CL63 AMG
- 2009-Present SL63 AMG
- 2011-Present SLS AMG
- SLS AMG

Manual P/N: 04-000-00027-3

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WEISTEC M156/M159 Head Stud

Thank you for your purchase of the Weistec M156/M159 Head Studs for the Mercedes AMG 63 with the 6.3L motor. Please follow all directions, and keep a clean work space when commencing installation.

Tools Required

- Moly Lube Lubricant
- Permatex Ultra Black High Temp Black RTV Silicone
- 3/16" Hex Key
- 3/8" Drive Ratchet
- 3/8" Drive, 1/2", 12 point socket
- 3/8" Torque Wrench
- 3/8" Drive Ratchet

I. Head Stud Install

1. Prepare for installation by removing cylinder head and preparing block deck surface as if you were changing a head gasket.
2. Apply Moly Lube thread lubricant to the engine block side of the stud (**end without hex head**):



Apply Moly Lube to the threads on the end without Hex head

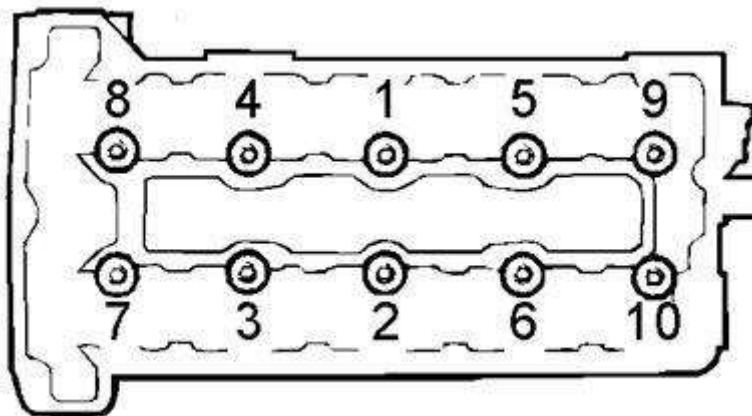
3. Install Studs into block:
 - a. By hand, start threading all studs into the engine block.
 - b. Using a 3/16" hex key, tighten all studs until they bottom out in the block. **DO NOT OVERTIGHTEN THE STUDS AT THIS POINT. HAND TIGHT ONLY!**
4. Slide head gaskets over studs and dowel sleeves. **BE SURE TO APPLY SILICONE GASKET MAKER PER MERCEDES OEM SERVICE MANUAL TO ENSURE PROPER SEALING OF HEAD GASKETS**
5. Apply High Temp black RTV Silicone to the entire exposed thread area as shown below.
6. Clean all 10 washer mating locations on each cylinder head, any oil or debris can cause a leak later. Brake parts cleaner is recommended.
7. Slide engine head over studs being careful to not damage head surface

8. Apply high temp black RTV silicone (500 deg F minimum rating) to all surfaces of the washers as well as the outside of the 12pt nut to prevent it from falling out of the socket.





9. With a ½", 12 point socket, hand thread each nut onto its stud, being careful not to drop the nut into the head or strip the stud.
10. Lightly hand tighten each nut down onto the washers, to not torque at this step.
11. Using a torque wrench and an "in to out" pattern, torque the nuts in this order.
 - a. 55 Nm
 - b. 110 Nm
 - c. 150 Nm



12. Give proper time for silicone sealant to set before allowing engine oil or water to contact seal area.

NOTES: