

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

i Important!

This replacement procedure can be used for: BMW X5 (E53) 3.0 d

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Touring (E46) 320d 2.0

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REPLACEMENT: MASS AIR FLOW SENSOR – BMW X5 (E53). LIST OF THE TOOLS YOU'LL NEED:



- Electronic spray
- Torque wrench
- Drive socket # 12
- HEX bit No.H5
- Torx bit T25

- Torx bit T30
- Ratchet wrench
- Microfibre towel
- Fender cover

Buy tools

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Replacement: mass air flow sensor – BMW X5 (E53). AUTODOC experts recommend:

- Clear the trouble codes from the electronic control unit if necessary.
- Make sure that no dust or dirt gets into the air duct components and the throttle body.
- Please note: all work on the car BMW X5 (E53) should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

- Open the bonnet.
- Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.
- Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.



Remove the engine cover.



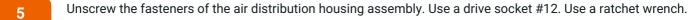
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AUTODOC recommends:

• Replacement: mass air flow sensor – BMW X5 (E53). Do not use excessive force when removing the part as this may damage it.





6 Remove the air distribution housing assembly.



Release the cabin filter cover clips.



Remove the cabin filter cover.



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9 Remove the cabin filter.



Replacement: mass air flow sensor – BMW X5 (E53). Tip from AUTODOC:

• Do not attempt to clean and reuse the filter - it will affect the quality of air cleaning inside the car.

Unscrew the fasteners of the cabin filter housing. Use Torx T30. Use a ratchet wrench.



Remove the cabin filter housing.



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Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.



Remove the engine cover.



AUTODOC recommends:

- Replacement: mass air flow sensor BMW X5 (E53). To avoid damaging the part when removing it, do not use excessive force.
- Remove the air distribution housing assembly.
- Remove the filter element from the filter housing.



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Unscrew the fasteners that connect the air duct to the MAF sensor. Use HEX No.H5. Use a ratchet wrench.



17 Remove the air duct.



Cover the air intake hose with a microfibre towel to prevent dust and dirt from getting into the system.



Detach the mass air flow sensor connector.



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Unscrew the MAF sensor fasteners. Use Torx T25. Use a ratchet wrench.



Remove the mass air flow sensor.



Install a new mass air flow sensor.



Tighten the MAF sensor fasteners. Use Torx T25. Use a torque wrench. Tighten it to 8 Nm torque.



Remove the microfibre towel from the air intake hose.

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25 Install the air duct.



Tighten the fasteners that connect the air duct to the MAF sensor. Use HEX No.H5. Use a torque wrench. Tighten it to 5 Nm torque.



Treat the mass air flow sensor connector. Use dielectric grease.



28 Attach the mass air flow sensor connector.



Clean the air filter cover and housing.

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Insert the filter cartridge into the filter housing. Make sure that the filter edge fits tight to the housing.



Install the engine cover and secure it.



AUTODOC recommends:

• Replacement: mass air flow sensor – BMW X5 (E53). To avoid damaging the part during installation, do not use excessive force.

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Screw in the engine cover fasteners. Use HEX No.H5. Use a ratchet wrench.



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