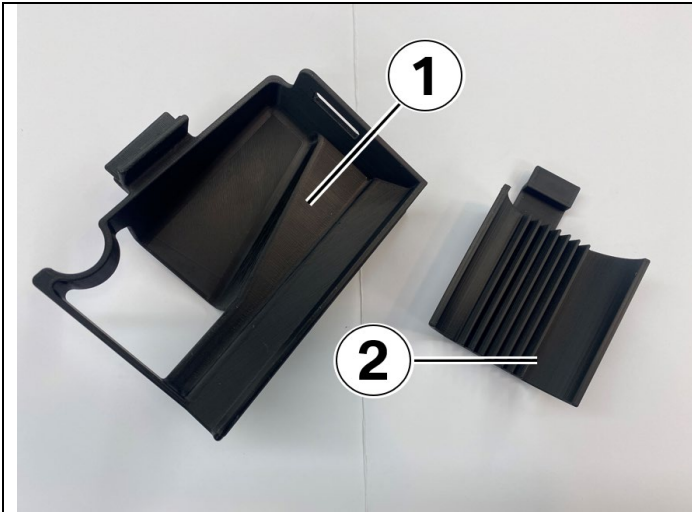


These tools are designed to work with all applicable engine oil service repair instructions found in AIR.

Always use a torque wrench when tightening the engine oil drain plug and engine oil filter cap.

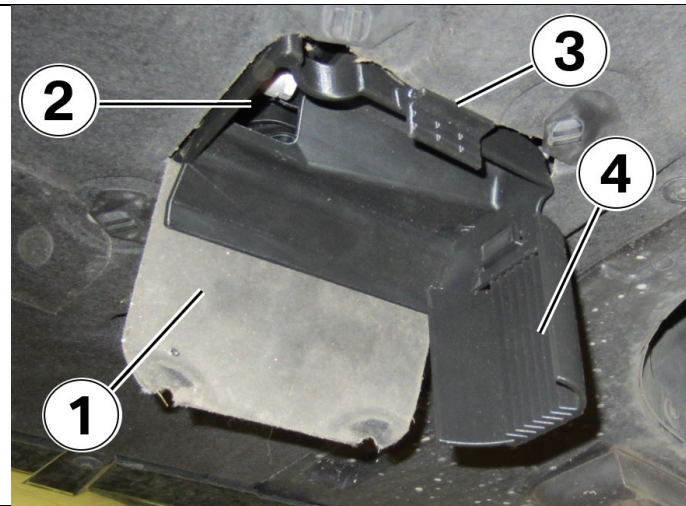
Vehicles with the transverse mounted B46 or B48 engine variants (F48 X1, F44 2 Series, F39 X2 and U11 X1).



Special tool P/N 83 30 5 A7B 9D4 - B3X-B4X Oil Drain Splash Shield.

Access port deflector (1)

Hanging oil splash deflector (2)

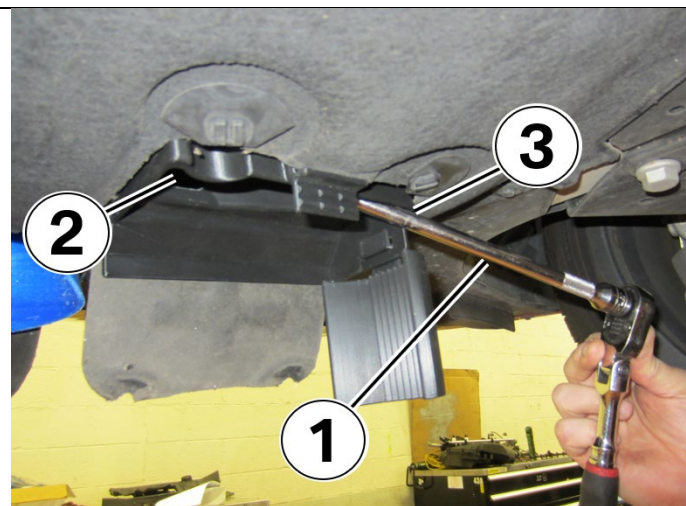


Open the engine oil drain plug access port (1).

Install the access port deflector (2).

Lock the tool into place with the tab (3).

Install the hanging oil splash deflector (4).



Tool tip for removing the oil drain plug:

Use a 3/8 drive 8-inch or longer extension and a 3/8 drive 17 mm swivel socket (1) to remove the engine oil drain plug (2).

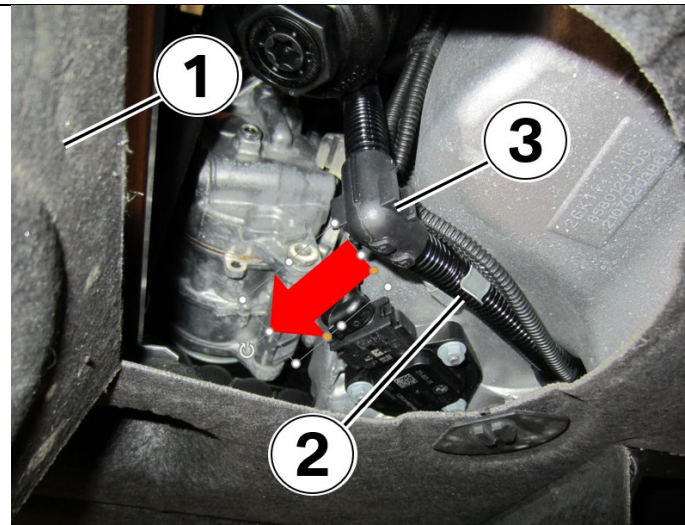
The long extension (3) fits between the access port deflector and the hanging oil splash deflector.

Using these tools will ensure no engine oil will contact the vehicle and your hands.

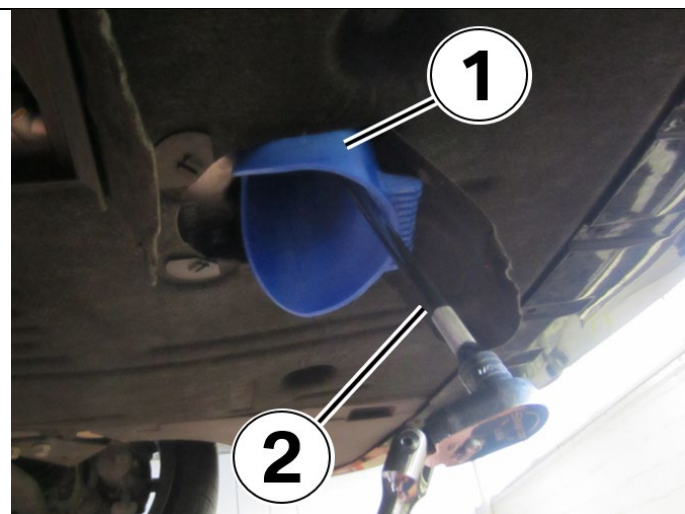
Remove the tool after the work is completed.



Special tool P/N 83 30 5 A7B 9D5 – B3X-B4X Oil Filter Splash Shield.

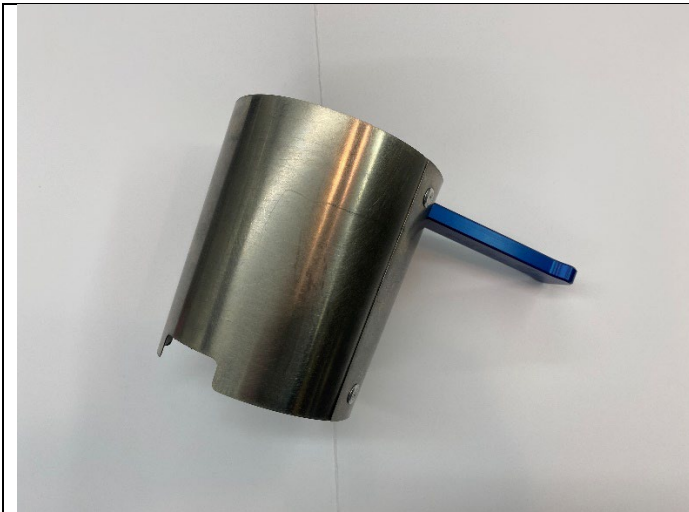


Open the engine oil filter access port (1).
 Disconnect the corrugated harness from the clip (2).
 Gently move the corrugated harness in the direction of the red arrow.
 This will allow the oil filter splash tool to be installed with less effort in the next step.

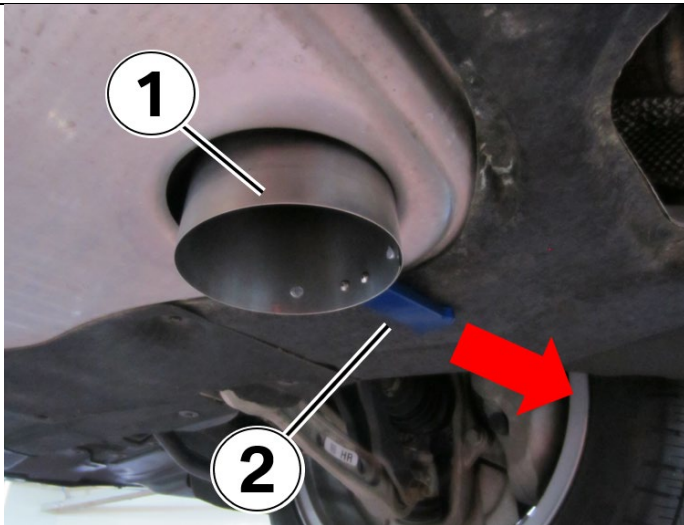


Install the oil filter splash tool (1) onto the oil filter housing. This will take some effort to position it correctly around the oil filter housing. The tab on the front of the tool needs to point forward and it will also hold open the access port.
 Once installed, use a long 3/8 extension on a ratchet to loosen the oil filter housing cap while standing off to one side.
 The dripping engine oil will be contained in the splash shield and the lower engine cover or surrounding area will not be contaminated with engine oil.
 Remove the tool after the work is completed and reattach the corrugated harness to the clip.

All vehicles with the N63, S63, N63TU and S63TU engine variants.



Special tool P/N 83 30 5 A7B 9C9 – N63 Oil filter Splash Shield tool for N63, N63TU, S63 and S63TU.



Install the splash shield (1) around the oil filter with the handle (2) in the direction of the arrow pointing directly towards passenger rocker panel.

This tool is specifically designed to follow the contour of the N63, N63TU, S63 and S63TU engine oil filter housing and upper engine oil pan. The tool is a press fit around the oil filter housing circumference to make it completely hands-free.

Remove oil filter cap using the proper tools.

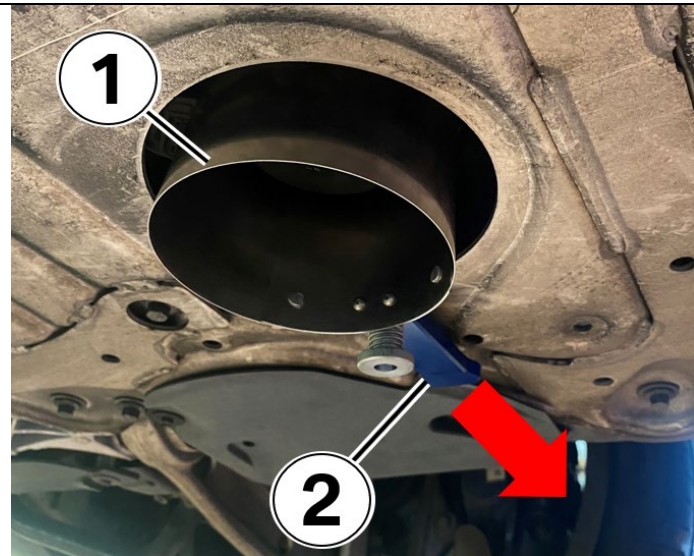
The dripping engine oil will be contained in the splash shield and the lower engine cover or surrounding area will not be contaminated with engine oil.

Remove the tool after the work is completed.

All vehicles with the N63R, N63B, N63M, S63M and S68TU engine variants.



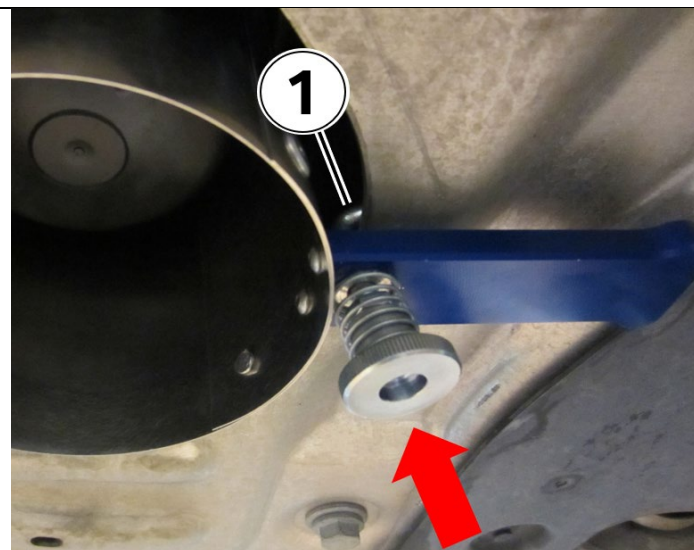
Special tool P/N 83 30 5 A7B 9D0 – N63 Oil filter Splash Shield with hook (1) tool for N63R, N63M, N63B, S63M and S68TU.



Install the splash shield (1) around the oil filter with the handle (2) in the direction of the arrow pointing directly towards passenger rocker panel

This tool is specifically designed to follow the contour of the N63R, N63M, N63B, S63M and S68TU engine oil filter housing and upper engine oil pan. The tool is **NOT** a press fit around the oil filter housing.

Go to the next step.



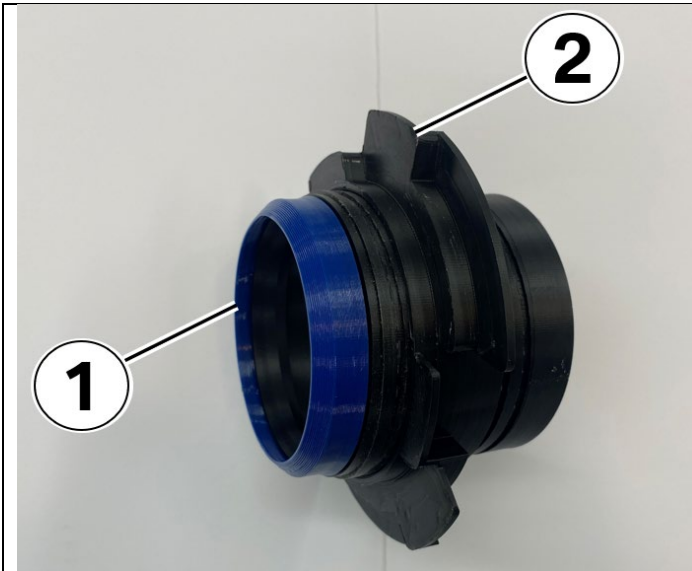
For hands free operation the hook portion of the tool needs to be pushed upward in the direction of the arrow and then rotated (1) to secure the tool in place.

Remove oil filter cap using the proper tools.

The dripping engine oil will be contained in the splash shield and the lower engine cover or surrounding area will not be contaminated with engine oil.

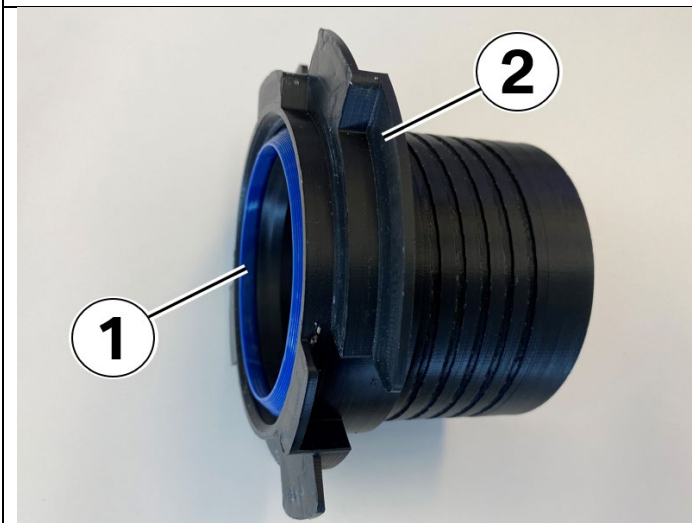
Remove the tool after the work is completed.

Universal Oil Drain Splash Shield



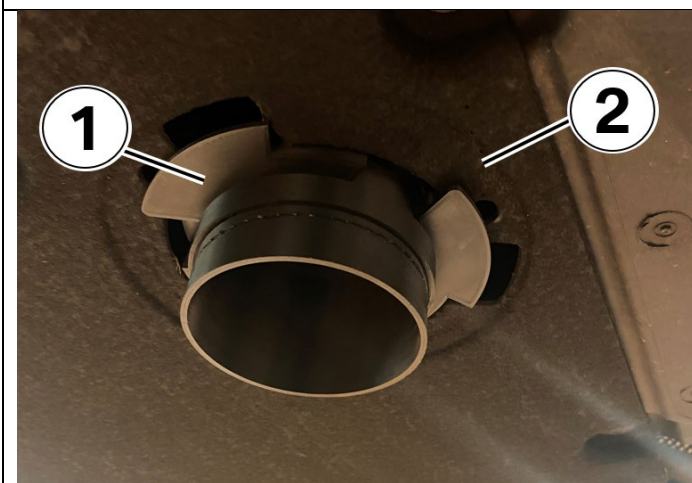
Special tool P/N 83 30 5 A7B 9D3 Universal oil drain splash shield for all models using a circular under body access in the metallic stiffening plate or the plastic underbody covers.

This tool consists of two pieces. The threaded center section (1) should be unscrewed counterclockwise from the outer collar (2) before installing the tool on the vehicle.



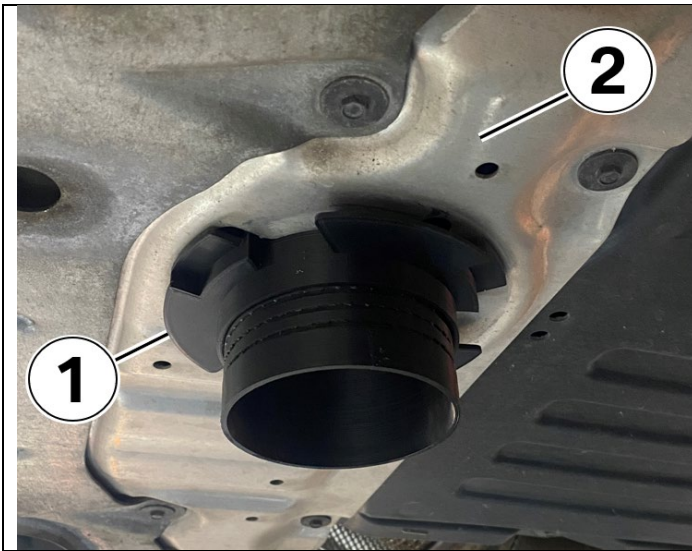
The universal oil drain splash shield tool is prepared for installation.

The threaded center section seal (1) is flush with the outer collar (2).



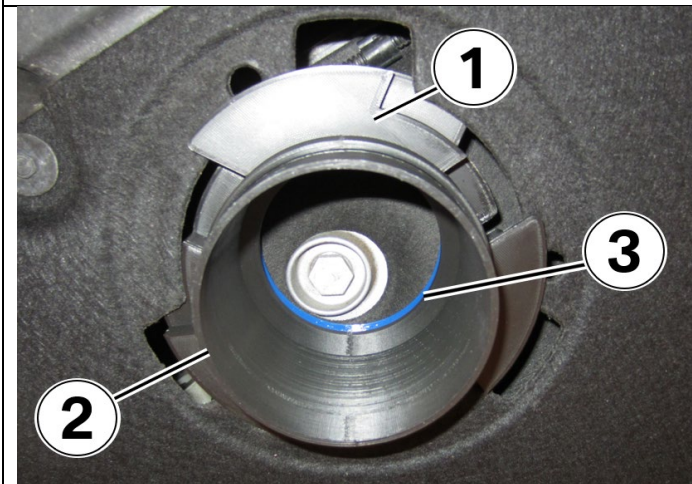
The universal oil drain splash shield (1) is installed in a vehicle with a plastic under body cover (2).

Rotate the outer collar of the tool (1) to fit and lock into the hole.



The universal oil drain splash shield (1) is installed in a vehicle with a metallic stiffening plate (2).

Rotate the outer section of the tool (1) to fit and lock into the hole.



After the tool is installed (1) rotate the threaded center portion (2) of the tool clockwise until the seal contacts the engine oil pan (3).

When the drain plug is removed this shield will ensure all engine oil is deflected straight downward.

The tool is completely hands-free after installation.



The engine oil drain plug has been removed - the oil is directed straight downward (1).

Remove the tool after the work is completed.

These tools are designed to work with all applicable engine oil service repair instructions found in AIR.

Always use a torque wrench when tightening the engine oil drain plug and engine oil filter cap.

Always remove the tools after the work is complete.