



How to change the  
engine radiator on the  
**Ford Transit Mk7 van** –  
replacement guide

## VIDEO TUTORIAL



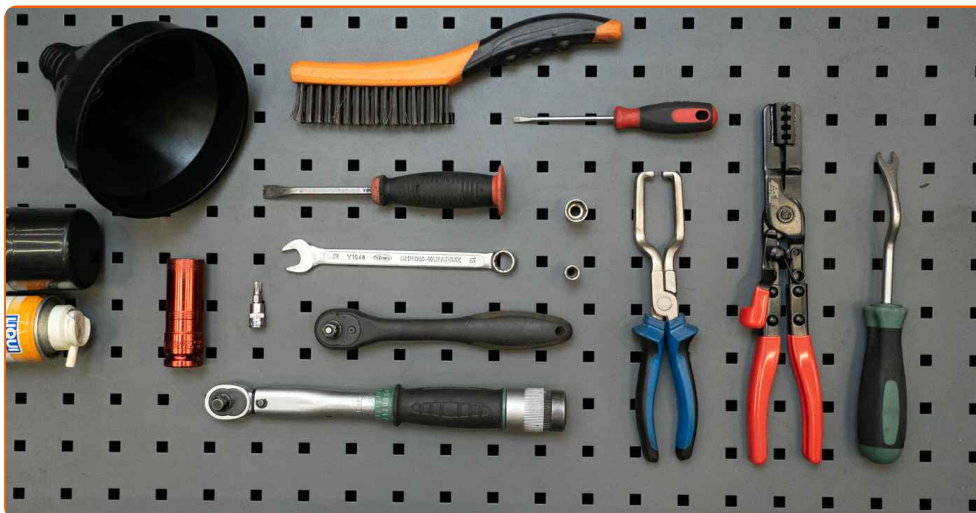
### Important!

This replacement procedure can be used for:

FORD TRANSIT TOURNEO 2.2 TDCi, FORD TRANSIT Bus 2.4 TDCi, FORD TRANSIT MK-7 Box 2.2 TDCi, FORD TRANSIT MK-7 Box 2.4 TDCi RWD, FORD TRANSIT MK-7 Box 2.3 16V RWD, FORD TRANSIT Bus 2.2 TDCi, FORD TRANSIT MK-7 Platform/Chassis 2.3 16V RWD, FORD TRANSIT MK-7 Platform/Chassis 2.2 TDCi, FORD TRANSIT MK-7 Platform/Chassis 2.4 TDCi RWD, FORD TRANSIT Bus 2.4 TDCi 4x4, FORD TRANSIT Bus 3.2 TDCi, FORD TRANSIT MK-7 Box 3.2 TDCi RWD, FORD TRANSIT MK-7 Platform/Chassis 3.2 TDCi RWD, FORD TRANSIT MK-7 Box 2.4 TDCi 4x4, FORD TRANSIT MK-7 Platform/Chassis 2.4 TDCi 4x4

The steps may slightly vary depending on the car design.

**REPLACEMENT: ENGINE RADIATOR – FORD TRANSIT MK7 VAN. LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- All-purpose cleaning spray
- Electronic spray
- Torque wrench
- 13 mm combination spanner
- 7 mm socket
- 13 mm socket
- T30 Torx bit
- Ratchet wrench or power tool for removal/installation of threaded fasteners
- Slotted screwdriver
- Hose clamp pliers
- Clip removal tool
- Fuel line pliers
- Mounting lever
- Funnel
- Fluid drain pan
- Fender cover

**BUY TOOLS**

Replacement: engine radiator – Ford Transit Mk7 van. AUTODOC recommends:

- Follow the recommendations and requirements for part operation provided by the manufacturer.
- All the work should be carried out with the engine cooled down and ignition switched off.

**CARRY OUT THE REPLACEMENT STEPS AS FOLLOWS:**

1

Open the bonnet.



2

Use a fender protection cover to avoid damaging the paintwork and plastic parts of the car.

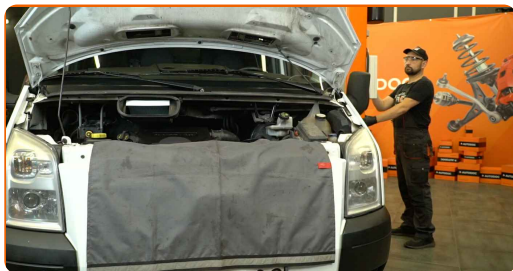


3

Unscrew the coolant reservoir cap.



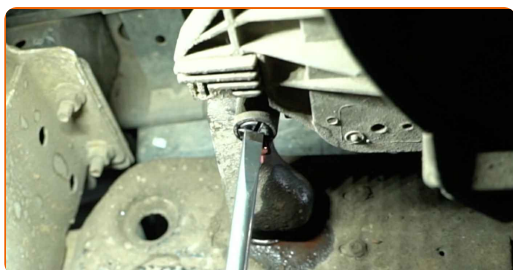
**4** Lift the vehicle using a vehicle lift or place it over an inspection pit.



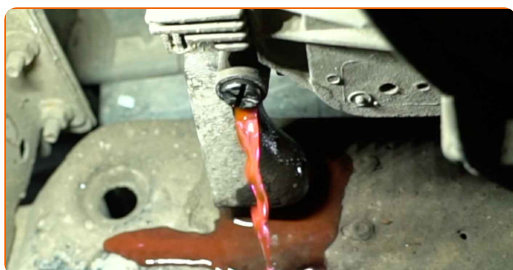
**5** Prepare a fluid drain pan.



**6** Unscrew the coolant drain plug. Use a slotted screwdriver.



**7** Drain the coolant.

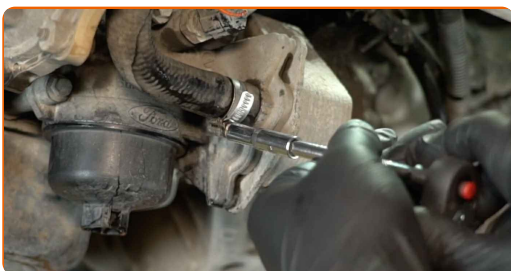


Replacement: engine radiator – Ford Transit Mk7 van. Tip:

- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

8

Release the clamp of the oil cooler coolant hose. Use a 7 mm socket. Use a ratchet wrench.



9

Detach the coolant hose from the oil cooler.

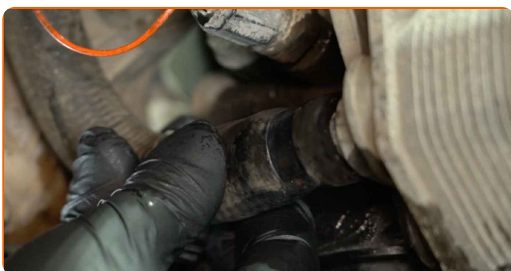


Caution!

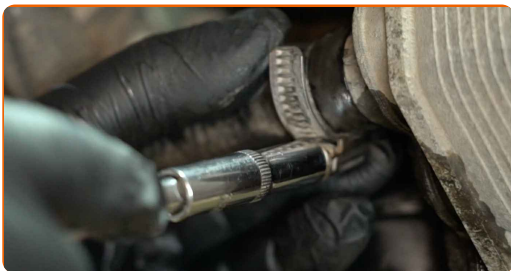
- Wait until the coolant has completely flowed out of the hose.

10

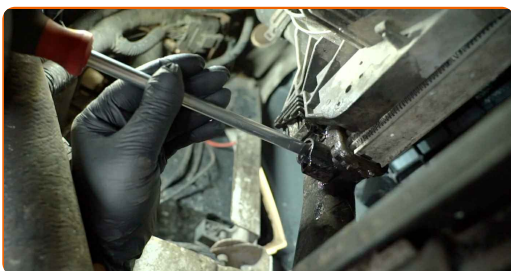
Attach the coolant hose to the oil cooler.



**11** Tighten the clamp of the oil cooler coolant hose. Use a 7 mm socket. Use a ratchet wrench.

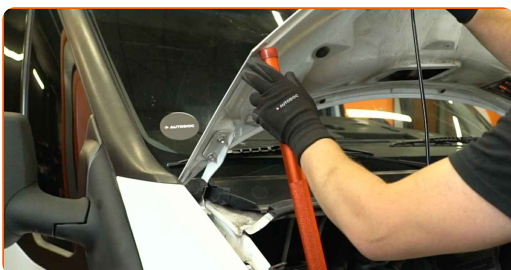


**12** Screw in the coolant drain plug.

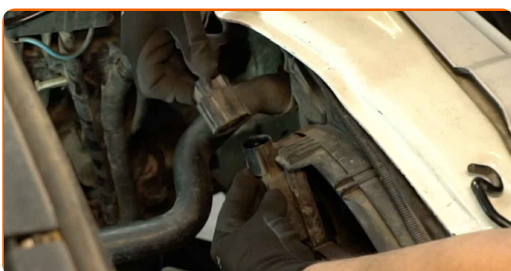


**13** Lower the car back to the ground if it was raised.

**14** Secure the bonnet with an additional support.



**15** Detach the engine cooling fan connector.



16

Release the clamp of the upper coolant hose. Use hose clamp pliers.



17

Detach the upper coolant hose.



Replacement: engine radiator – Ford Transit Mk7 van. AUTODOC experts recommend:

- Coolant may leak from the radiator openings.

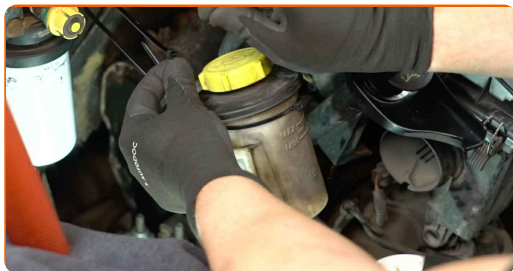
18

Detach the wire harness holder from the upper radiator support cover. Use a clip removal tool.

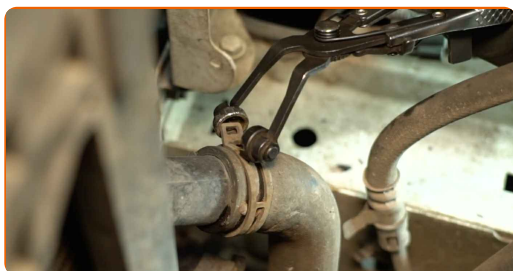




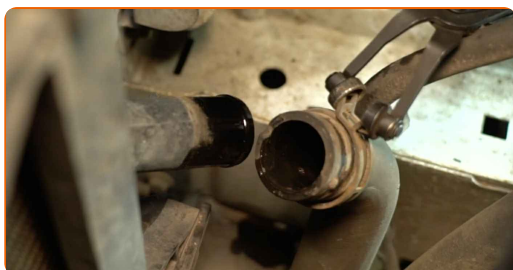
**19** Detach the power steering fluid reservoir.



**20** Release the clamp of the lower coolant hose. Use hose clamp pliers.



**21** Detach the lower coolant hose.



**Caution!**

- Coolant may leak from the radiator openings.

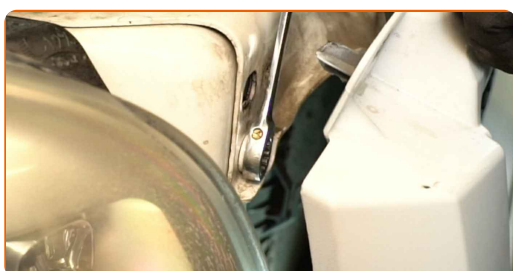
**22** Unscrew the upper fasteners of the radiator grille. Use a T30 Torx bit. Use a ratchet wrench.



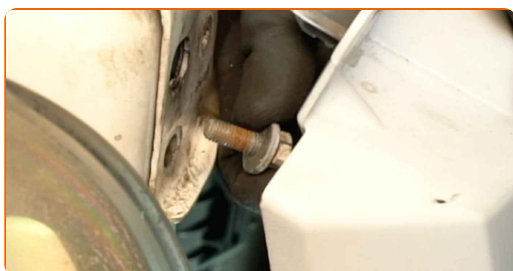
**23** Remove the fastening bolts.



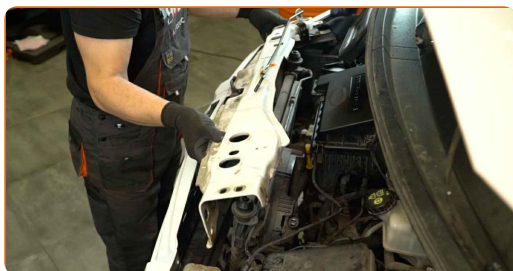
**24** Unscrew the fasteners of the upper radiator support cover. Use a 13 mm combination spanner. Use a 13 mm socket. Use a ratchet wrench.



**25** Remove the fastening bolts.

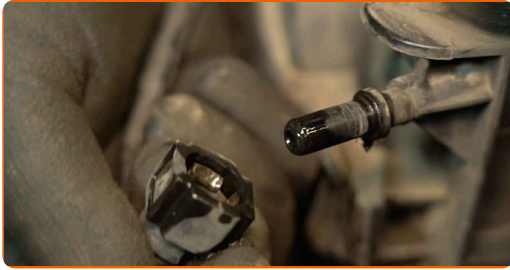


**26** Remove the upper radiator support cover.



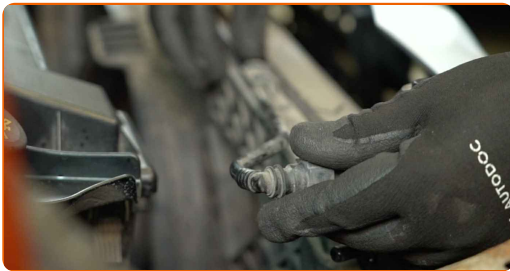
27

Detach the overflow hose connector from the radiator and stop the hose with a plug. Use fuel line pliers.



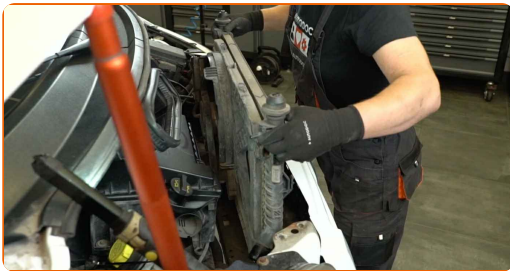
28

Detach the overflow hose from its brackets on the radiator.



29

Remove the radiator.



30

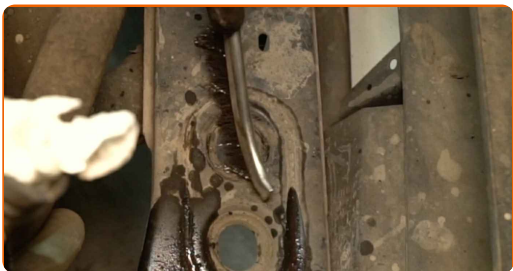
Remove the lower insulators of the radiator.



Replacement: engine radiator – Ford Transit Mk7 van. Tip from AUTODOC:

- Inspect the radiator insulators. Replace them if necessary.

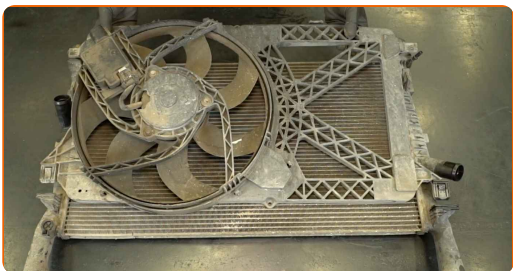
**31** Clean the mounting seats of the lower radiator insulators. Use a wire brush. Use an all-purpose cleaning spray.



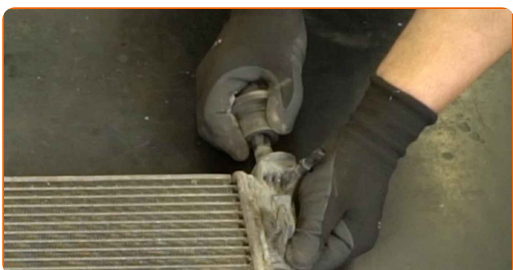
**32** Install the lower radiator insulators.



**33** Remove the engine cooling fan shroud together with the fan from the radiator. Use a mounting lever.



**34** Remove the upper insulators of the radiator.



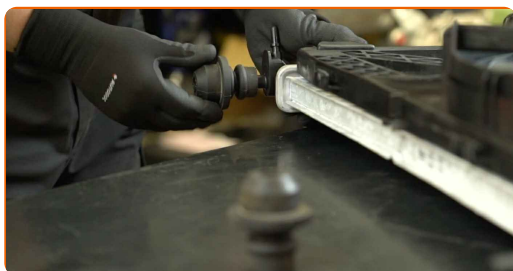
**AUTODOC recommendation:**

- Inspect the radiator insulators. Replace them if necessary.

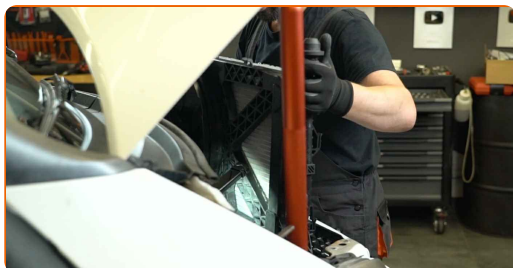
**35** Install the fan shroud together with the fan onto the new radiator.



**36** Install the upper radiator insulators.



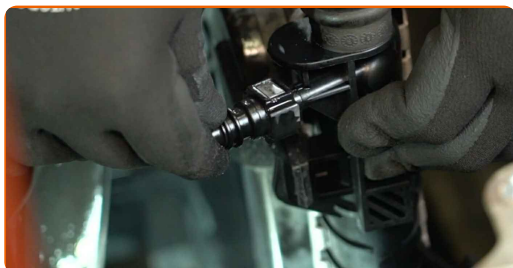
**37** Install the new radiator.



**38** Secure the overflow hose in its brackets on the radiator.



**39** Remove the plug from the overflow hose and attach its connector to the radiator.



**40** Install the upper radiator support cover.



**41** Install and screw in the fastening bolts of the upper radiator support cover.



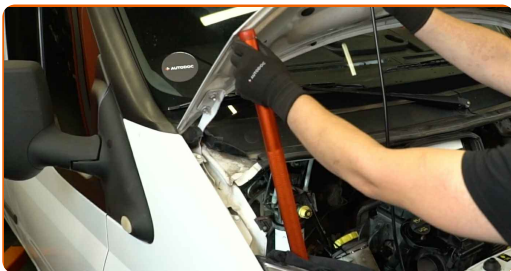
**42** Tighten the fasteners of the upper radiator support cover. Use a 13 mm socket. Use a torque wrench. Tightening torque: 22 N·m.



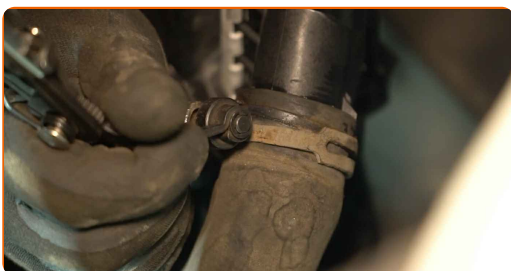
**43** Install and screw in the upper fasteners of the radiator grille. Use a T30 Torx bit. Use a ratchet wrench.



**44** Remove the additional support from under the bonnet.



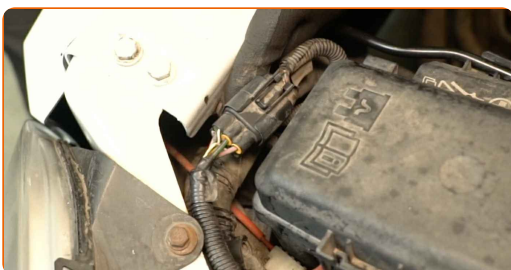
**45** Attach the lower coolant hose. Use hose clamp pliers.



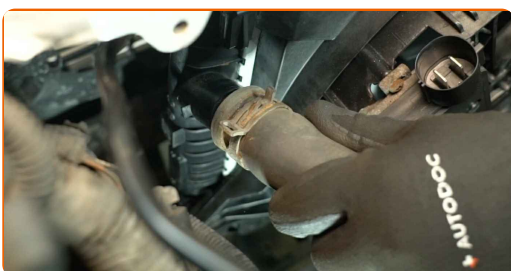
**46** Install the power steering fluid reservoir on the upper radiator support cover.



**47** Attach the wire harness holder to the upper radiator support cover.



**48** Attach the upper coolant hose. Use hose clamp pliers.



**49**

Treat the engine cooling fan connector. Use an electronic spray.

**50**

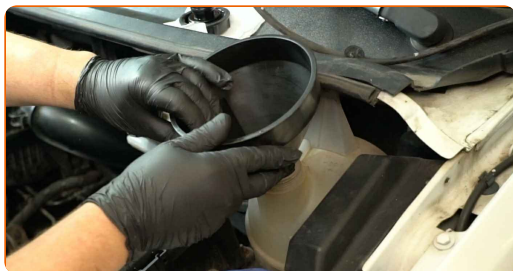
Attach the connector to the fan.

**51**

Remove the coolant reservoir cap.

**52**

Insert the funnel.

**53**

Pour coolant into the reservoir.

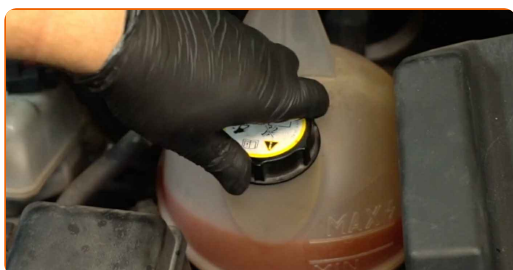




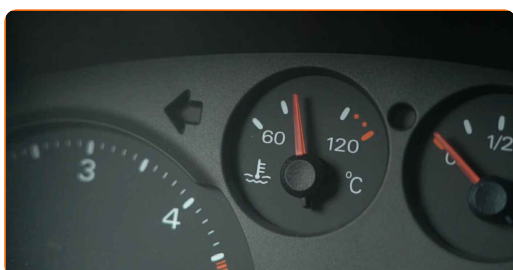
Replacement: engine radiator – Ford Transit Mk7 van. Tip from AUTODOC experts:

- Only use the coolant recommended by the manufacturer.
- The coolant level should be at the MAX mark on the reservoir.
- Wait until the air goes out of the system.

**54** Put the coolant reservoir cap back on and tighten it.



**55** Run the engine for a few minutes. This should be done in order to remove residual air from the cooling system and to check that the components are operating correctly and there are no leaks.



**56** Shut off the engine and let it cool down.



57

Top up the coolant to the MAX mark without exceeding it.



58

Remove the fender cover.

59

Close the bonnet.



**WELL DONE!** 

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