



How to change the  
engine radiator on the  
**FORD Transit Mk6  
Minibus (V347, V348)** –  
replacement guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

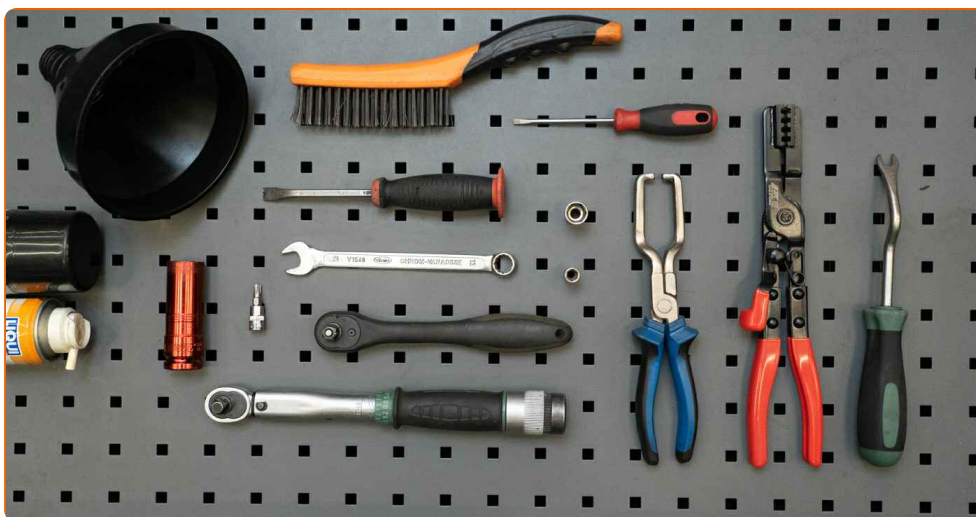
This replacement procedure can be used for:

FORD TRANSIT Bus 2.4 TDCi, FORD TRANSIT Bus 2.2 TDCi, FORD TRANSIT Bus 2.4 TDCi 4x4, FORD TRANSIT Bus 3.2 TDCi

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: FORD TRANSIT MK-7 Box 2.2 TDCi

**REPLACEMENT: ENGINE RADIATOR – FORD TRANSIT  
MK6 MINIBUS (V347, V348). 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 Mk6 Minibus (V347, V348).  
 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.

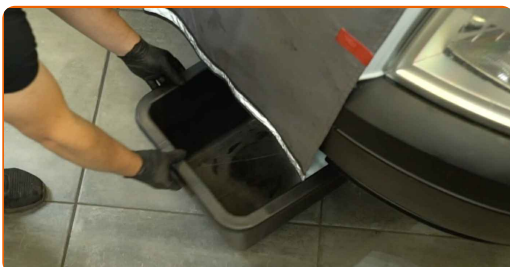
**2** Use a fender protection cover to avoid damaging the paintwork and plastic parts of the car.

**3** Unscrew the coolant reservoir cap.

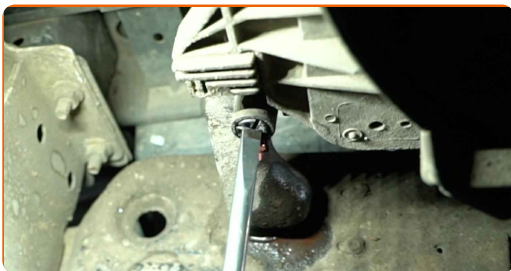


**4** Lift the vehicle using a vehicle lift or place it over an inspection pit.

**5** Prepare a fluid drain pan.



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



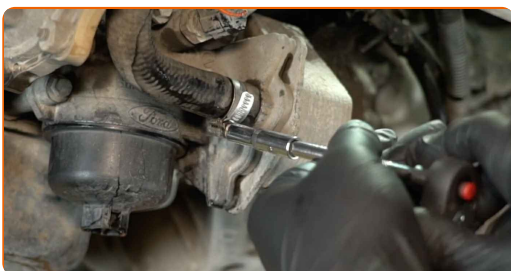
**7** Drain the coolant.



Replacement: engine radiator – FORD Transit Mk6 Minibus (V347, V348). 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.



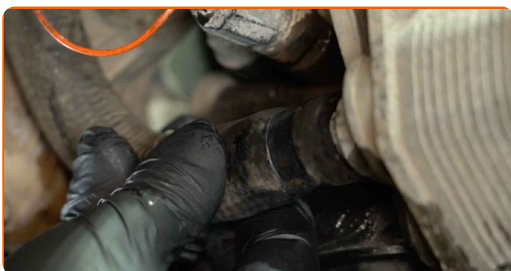
**9** Detach the coolant hose from the oil cooler.



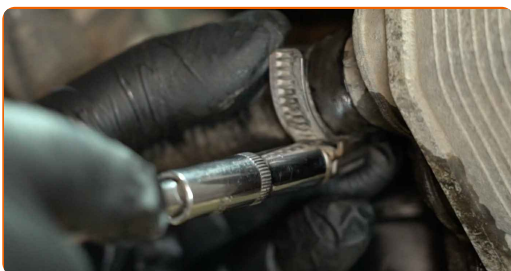
**Caution!**

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

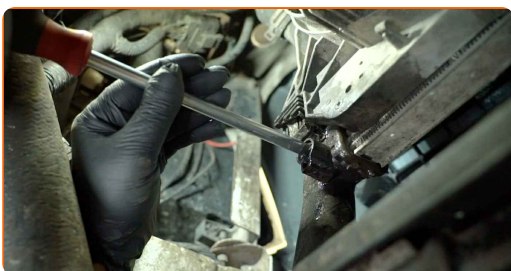
**10** Attach the coolant hose to the oil cooler.



**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.



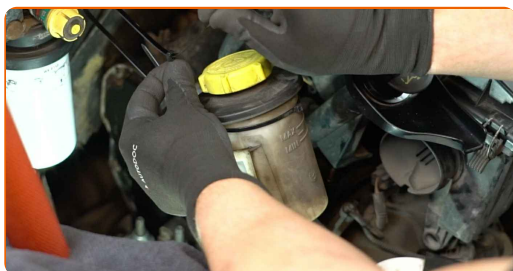
Replacement: engine radiator – FORD Transit Mk6 Minibus (V347, V348).  
AUTODOC experts recommend:

- Coolant may leak from the radiator openings.

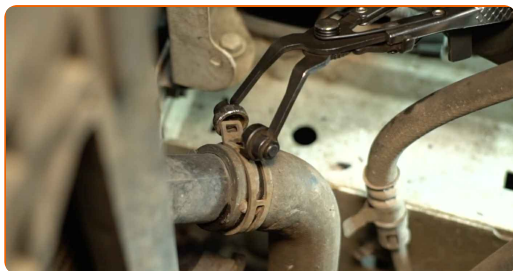
**18** Detach the wire harness holder from the upper radiator support cover. Use a clip removal tool.



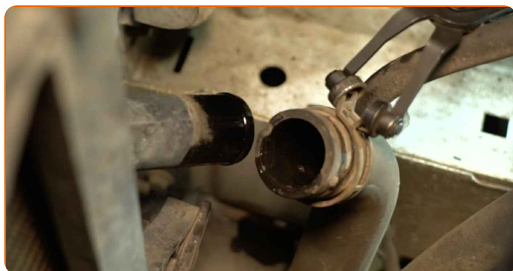
**19** Detach the power steering fluid reservoir.



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



**21** Detach the lower coolant hose.

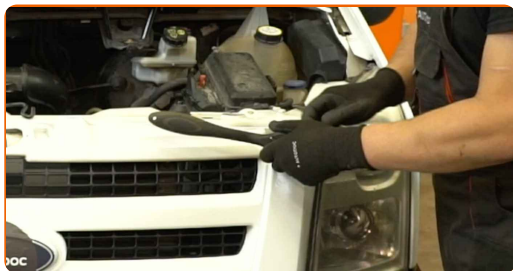


**Caution!**

- Coolant may leak from the radiator openings.



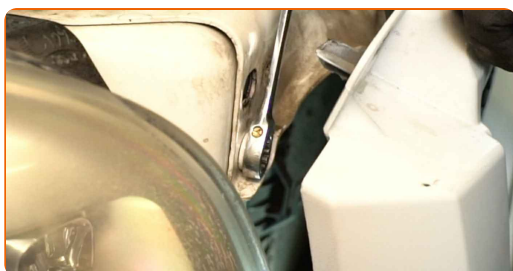
**22** Unscrew the upper fasteners of the radiator grille. Use a T30 Torx bit. Use a ratchet wrench.



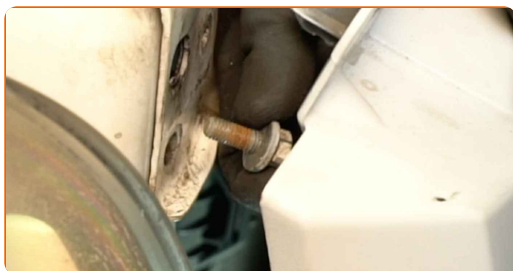
**23** Remove the fastening bolts.



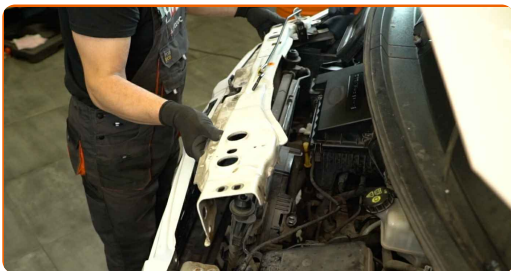
**24** Unscrew the fasteners of the upper radiator support cover. Use a 13 mm combination spanner. Use a 13 mm socket. Use a ratchet wrench.



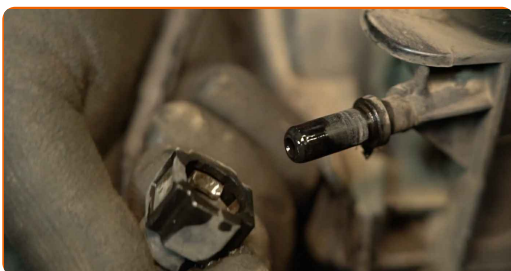
**25** Remove the fastening bolts.



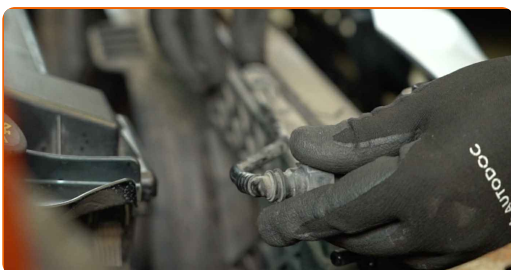
**26** Remove the upper radiator support cover.



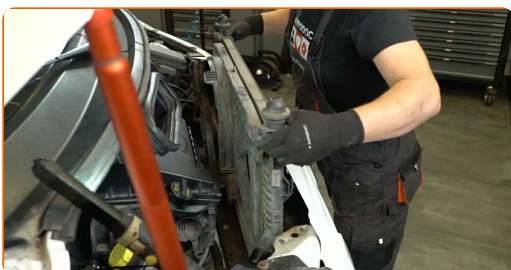
**27** Detach the overflow hose connector from the radiator and stop the hose with a plug. Use fuel line pliers.



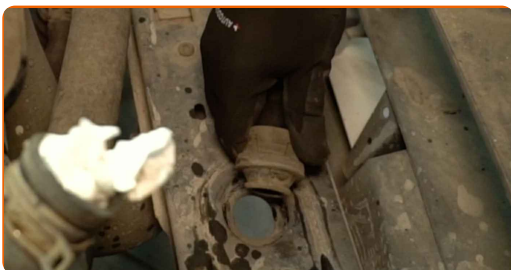
**28** Detach the overflow hose from its brackets on the radiator.



**29** Remove the radiator.



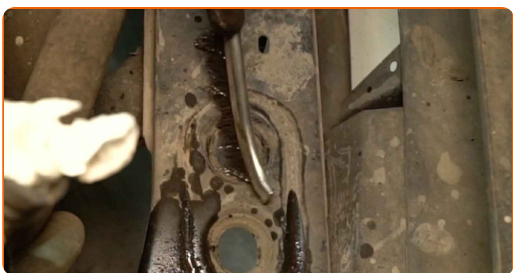
**30** Remove the lower insulators of the radiator.



Replacement: engine radiator – FORD Transit Mk6 Minibus (V347, V348). Tip from AUTODOC:

- Inspect the radiator insulators. Replace them if necessary.

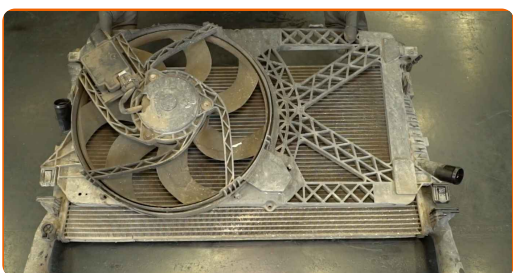
**31** Clean the mounting seats of the lower radiator insulators. Use a wire brush. Use an all-purpose cleaning spray.



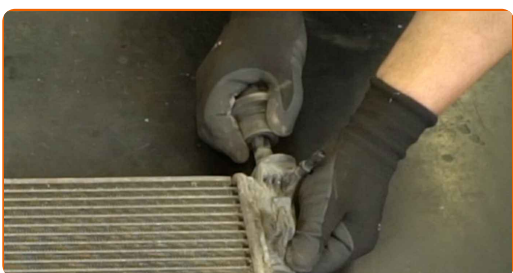
**32** Install the lower radiator insulators.



**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.

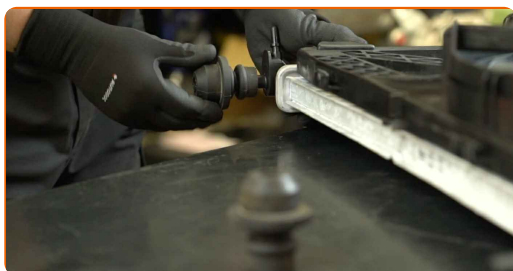
**35**

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



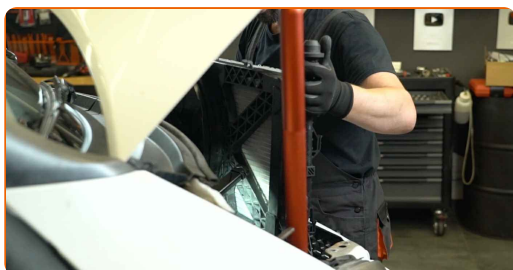
**36**

Install the upper radiator insulators.



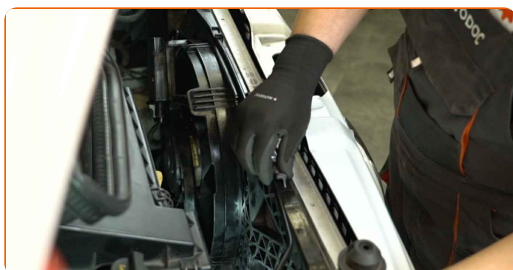
**37**

Install the new radiator.



**38**

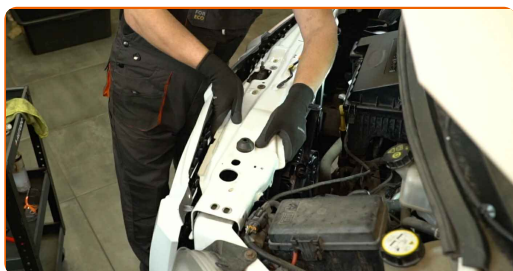
Secure the overflow hose in its brackets on the radiator.



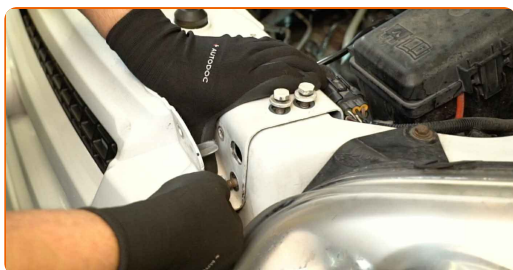
**39** Remove the plug from the overflow hose and attach its connector to the radiator.



**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.

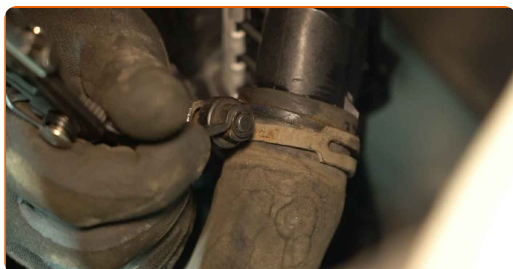


**43** Install and screw in the upper fasteners of the radiator grille. Use a T30 Torx bit. Use a ratchet wrench.



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

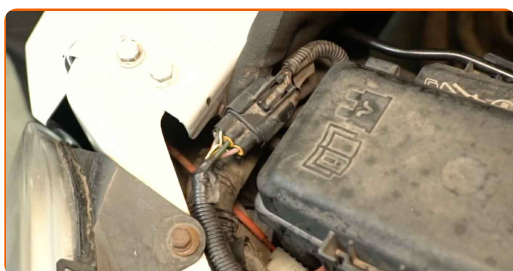
**45** Attach the lower coolant hose. Use hose clamp pliers.



**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.

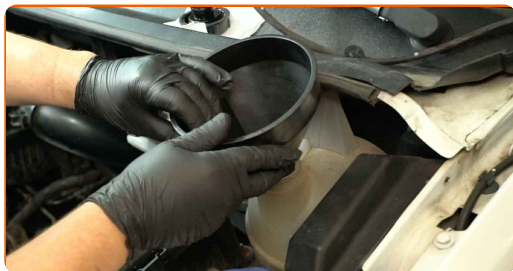


**51** Remove the coolant reservoir cap.



52

Insert the funnel.



53

Pour coolant into the reservoir.

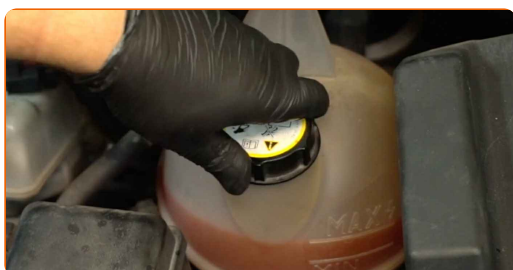


Replacement: engine radiator – FORD Transit Mk6 Minibus (V347, V348). Tip from AUTODOC experts:

- 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.



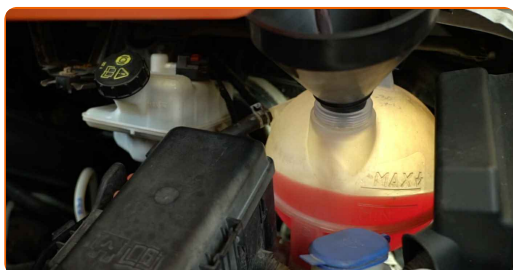


- 55 Run the engine for a few minutes. This should be done in order to remove residual air from the cooling system and to check that the components are operating correctly and there are no leaks.



- 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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