

## Technical Bulletin

The BMW 3 Series (E90/E91/E92/E93) is the fifth generation of the BMW 3 Series compact executive car, which was produced from 2004 to 2013. The age of the cars in the market is between 6 and 14 years, with an average 10 years old.



As aging of the cars, failure of cooling components is seen increasingly.

CARSCION engineers received recently several complaints about leakage of E90 radiators caused by aging of sealing rubber and deformation of plastic water hose joints. The OE references involved are:

- OE#: 17117553111 /17117559273 w/ quick fit
- OE#:17117562079 /17117542199 w/ quick fit

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1. Leak occurred at the ATF pipe connection at the left water tank.

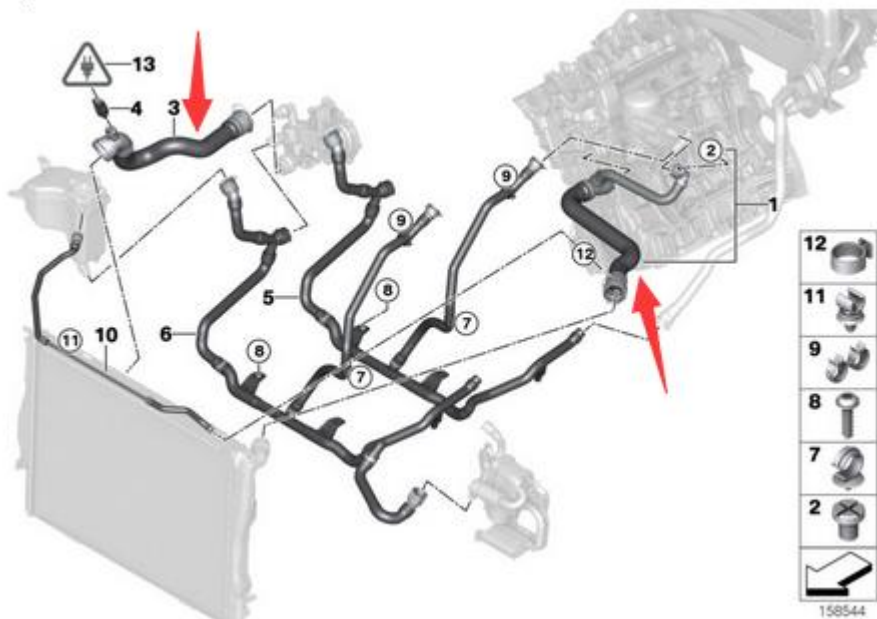


**CAUSE:** the drain plug was improperly installed, which distorted the O-ring resulting in loss of sealing effect.



**Solution:** Replace with new O-ring. When installing, properly brush a little coolant to the O-ring for better greasing.

2. Leakage occurred at the inlet and outlet of the radiator.



**CAUSE:** When the water hoses have been used for a long time under high temperature on the car, aging corrosion and deformation of plastic water hose joints will occur (as shown in the

figure below), and the sealing rubber will also age, resulting in attenuation of the sealing effect and eventually leakage of the radiator. >>> *Key in the "Failure mode of automotive rubber water hoses" in the Wechat account of CARSCION\_ASIA to learn more.*

**Solution:**

- 1 ) . Change a new water hose;
- 2 ) . Change a new O-ring. Replacing the O-ring inside the water hose is relatively more economical than replacing the entire water hose. However, it is necessary to pay special attention to check whether the O-ring has been tightened correctly in the slot after replacement.



If the water hose joints deformed already (due to aging), the leakage situation won' t change even after replacing a new O-ring, then the entire water hose needs to be replaced.

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