

Thermostat Replacement DIY

Having some weird issues with the temperature gauge (going back and forth from cold till middle) I decided to change the thermostat. I had coolant leaking from the thermostat housing too, so it was a good idea anyway.

T-stat to be replaced.



Bleed screw for proper coolant system venting



Remove 3 push-lock pins to remove air intake



Remove T20 bolt, 2 plugs shown here and push/lock pin on opposite side to remove fan.



Connection was very tight and I was afraid that I would break something



CONNECTOR FOR UPPER RADIATOR HOSE



LOWER RADIATOR HOSE NEEDS TO BE SOAKED IN WD40 TO DISCONNECT

New thermostat



Spraying some good amount of WD-40 to break loose the connections



With a flathead screwdriver, pry the metal release tab upwards for both hoses



PRY LOWER RADIATOR HOSE RELEASE SPRING



PRY RADIATOR HOSE RELEASE SPRING

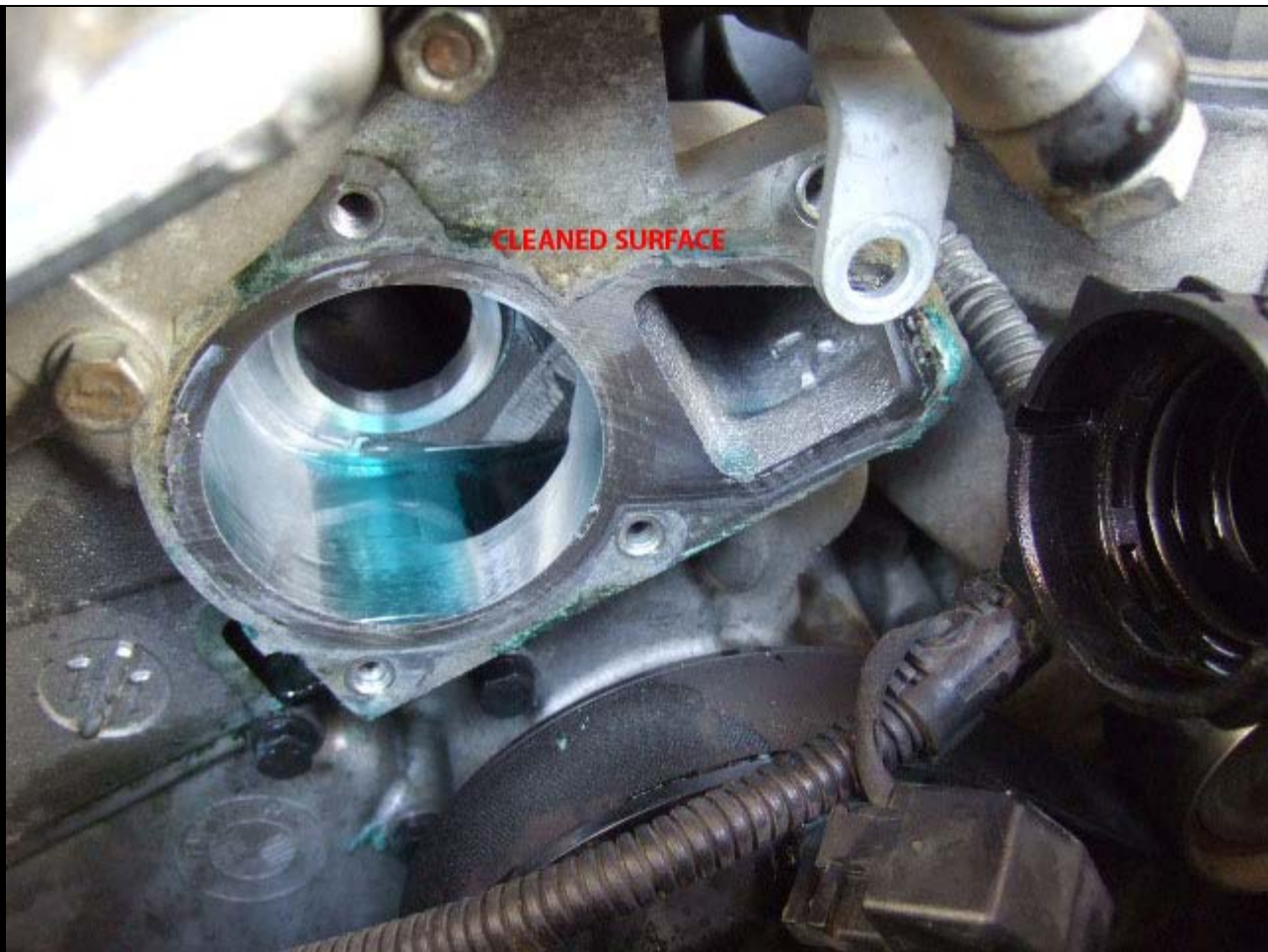
Thermostat plug release spring needs to be pushed down to release connector



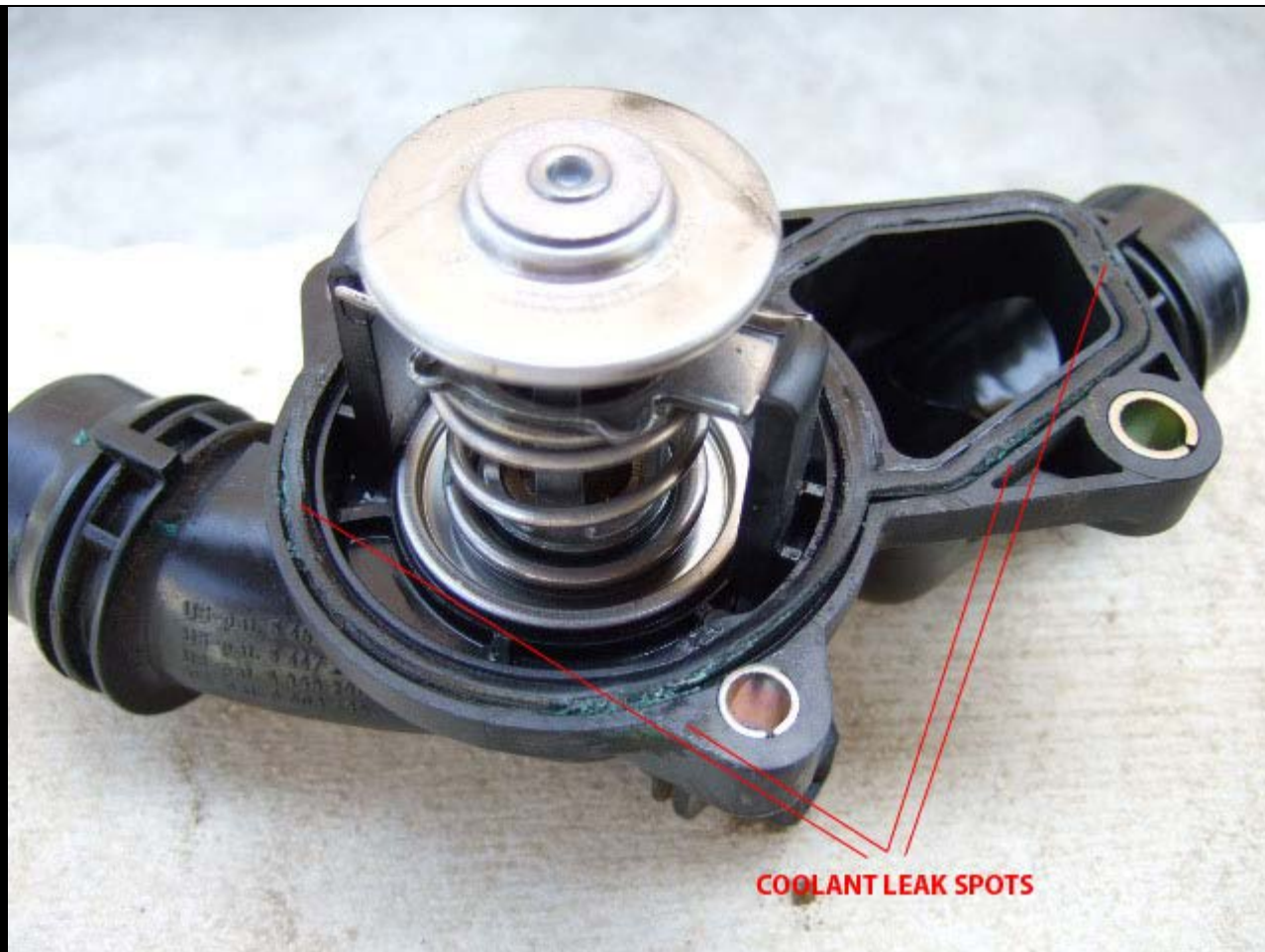
To remove the thermostat: Remove the 11mm nut that holds the engine hoist bracket, remove the 13mm bolt of the lower part of engine hoist bracket, and the 3x10mm bolts that hold the thermostat on the block.



Have some rags below the thermostat as coolant (around 1.5L) will be spilled. You don't want coolant on the engine belt. It's oily and can make the belt slip. There were marks of there the coolant was leaking which I thoroughly cleaned before proceeding.



Old thermostat with messed seal



Aparently the plug was messed too, rust, coolant, dust particles and one wire which was barely making contact. As I further pulled the connector the wire was cut.



To prevent future coolant leaks, I applied some high temp RTV silicone sealant as per application instructions.



HIGH TEMP SILICONE SEALANT APPLIED TO PREVENT LEAKS

Used OEM coolant. Nitrite Free

BMW Group

Kühler-Gefrier- und Korrosionsschutzmittel

Nitritfrei

Anti-freeze and anti-corrosive for radiators
Free from nitrite

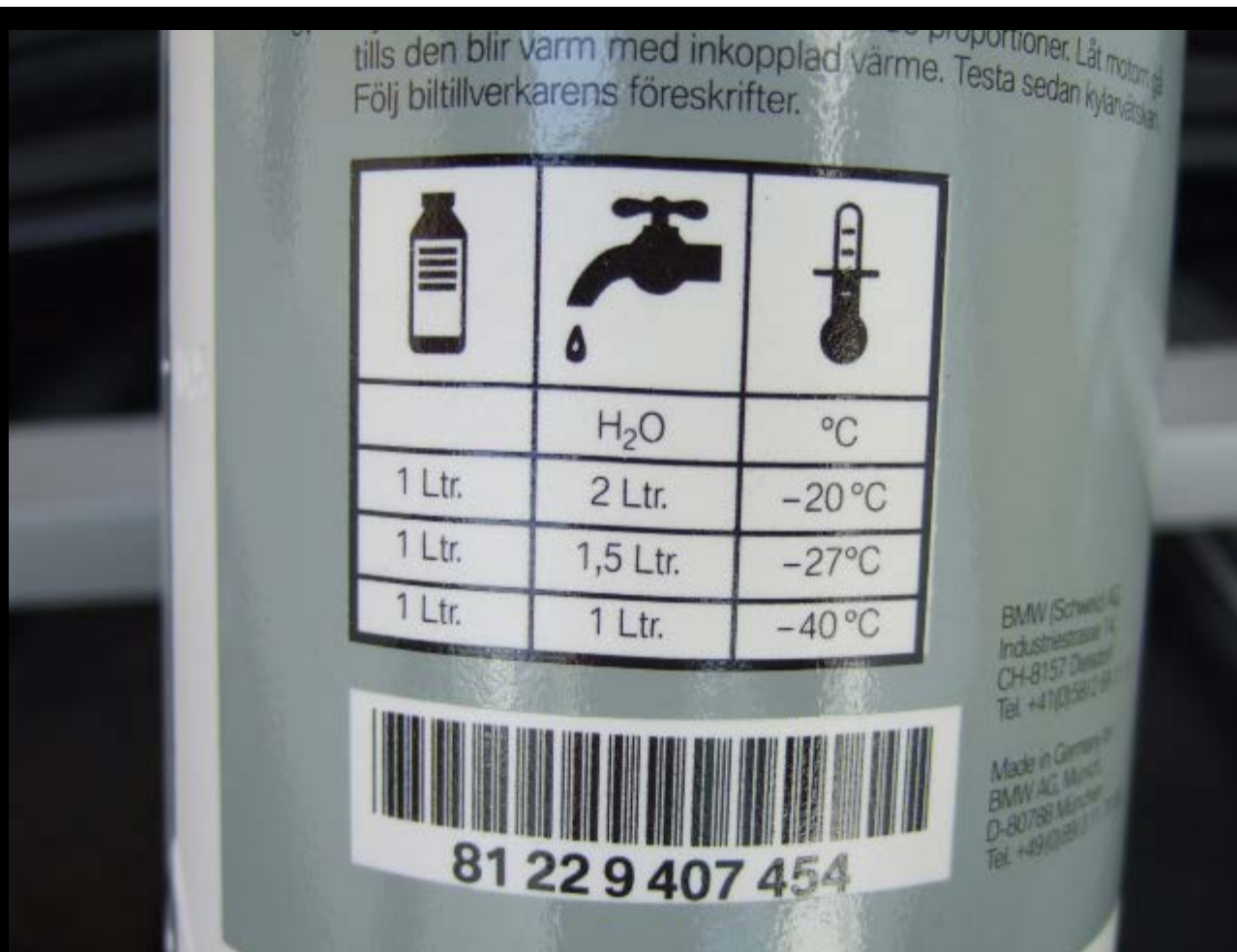
Antigel et anticorrosion pour radiateurs
Ne contient pas de nitrites

de Gefrierschutzmittel und Wasser im gewünschten Verhältnis einfüllen. Motor bei eingeschalteter Heizung warmlaufen lassen. Kälteschutz nachprüfen. Betriebsanleitung des Fahrzeuges beachten.

en Anti-freeze and water should be mixed in desired proportion. Let the engine run while the heating system is turned on. Check anti-freeze effect. Heed vehicle operating instructions.

fr Verser l'antigel et l'eau dans les proportions désirées. Mettre le chauffage en marche et faire tourner le moteur jusqu'à ce qu'il soit chaud. Vérifier l'effet antigel. Observer les instructions d'emploi du véhicule.

es Llenar el radiador con la mezcla deseada de anticongelante y agua. Dejar calentar el motor con el sistema de calefacción en funcionamiento. Comprobar el efecto anticongelante.



Assembly is just the opposite process, not difficult, took me total of 2 hours.



