



## INA Service Info



# Coolant

## Mixing different coolants

Manufacturers: VAG  
 Models: all  
 Year: since 1994  
 Art.-Nr.: See parts catalog

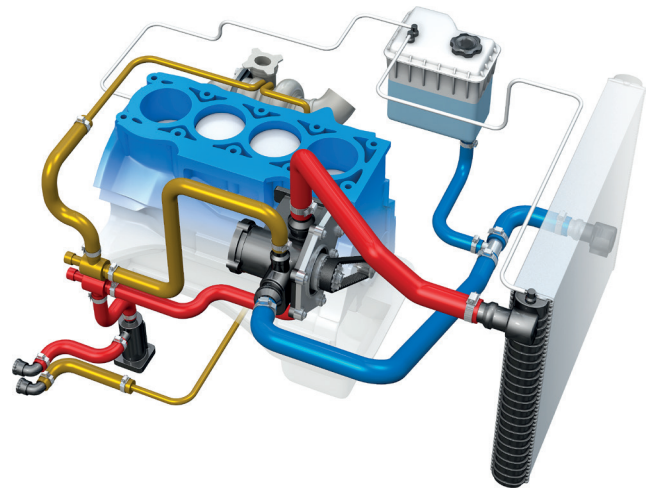


Image: Cooling system schematic

The coolant has a significant impact on the operation of the entire cooling system. Use of unsuitable or poor quality coolant, as well as mixing of incompatible types, can lead to reduced service life or even damage to components:



In some cases, mixing different coolants is acceptable. The table below shows permissible combinations.

Mixing:	Green-blue G11 ≥ 1994	Red G12 ≥ 1996	Purple G12+ ≥ 2000	Purple G12++ ≥ 2005	Purple G13 ≥ 2012	Purple G12evo ≥ 2018
G11	Green	Red	Yellow	Yellow	Yellow	Yellow
G12	Red	Green	Yellow	Yellow	Yellow	Yellow
G12+	Green	Green	Green	Yellow	Yellow	Yellow
G12++	Green	Green	Green	Green	Yellow	Yellow
G13	Green	Green	Green	Green	Green	Yellow
G12evo	Green	Green	Green	Green	Green	Green

Green	Can be mixed in any ratio
Yellow	Mixing is possible, but corrosion protection will be reduced
Red	Must not be mixed

The table shows which coolants (left column) can be added to the coolant already in the engine (top line).

Instructions for using of the table:

1. Check which coolant additive is in the cooling system.
2. Find the coolant additive in the upper horizontal line.
3. Go down the column. All coolant types of the green and yellow fields can be used for topping up, but it is preferable to use the coolant marked in the green field. A complete draining of the cooling system is not required.

Some important notes:

- This Service Info is for informational purposes only. Be sure to strictly follow the vehicle repair instructions.
- If coolant is drained due to a repair, use new coolant approved by the vehicle manufacturer.
- Do not reuse drained coolant.
- Only distilled water is allowed per vehicle repair instructions.
- Dionized water must not be used.
- If G11 is mixed with G12+, G12++, G13 or G12evo the coolant becomes brown - this is normal.
- G13 is no longer supplied by vehicle manufacturer, however it is still available in the aftermarket.
- When replacing INA water pump the best practice is to flush the system and replace with G12++ or G12evo.

Please observe vehicle manufacturer recommendations & specifications.

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