



INA Service Info



Coolant

Mixing different coolants

Manufacturers: VW Group

Models: all

Year: since 1994

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



Figure 1: Signs of corrosion on a coolant pump

But in some cases, mixing different coolants is acceptable. The table below shows validity of this process.

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	Green	Green	Green
G12++	Green	Green	Green	Green	Green	Green
G13	Green	Green	Green	Green	Green	Green
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	Can't be mixed

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

Check which coolant additive is in the cooling system. Find the coolant additive in the upper horizontal line. 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 a new coolant approved by vehicle manufacturer.
- Don't 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's still available in aftermarket.
- When replacing INA water pump the best practice is to flush the system and replace with G12++ or G12evo.

Please observe the vehicle manufacturer specifications!

You want more? We can help!

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