



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All (except Routan)	1994-2018	All	All	All	All

Condition

19 17 01 June 1, 2015 **2022548** Supersedes Technical Bulletin 19-15-01 (V191501) dated October 21, 2015 to add additional models and model year applicability.

Identifying and Mixing Factory Fill Engine Coolants

Discontinuation and mixing of Volkswagen approved engine coolants.

Technical Background

Coolants G11, G12, G12+ and G12++ have been replaced by an improved version.

G13 Coolant is introduced on all engines.

Production Solution

No production change required.



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Service

Identify which coolant the vehicle was filled with from the factory.

The photo below shows the color of each type of engine coolant.



Legend:

G11 - green-blue

G12 - red

G12+ and G12++ - purple

G13 (Not pictured) - purple



Note:

The photo above is for color identification only, your packaging may vary.

The table below identifies which coolant can be added to the factory coolant.



Note:

G12+, G12 ++ and G13 coolants are lifetime coolants when used exclusively in the coolant system (not mixed with other coolants).

Coolants can be mixed, as described in the chart, but it is always a best practice to change the coolant due to reduced corrosion protection when coolants are mixed.

Coolants can be mixed, as described in the chart, when adding / topping off fluid levels. When the coolant is changed due to a cooling system issue, the cooling system should be drained and filled using published procedures in Elsa.

The table is read by identifying the factory filled coolant at the top, and comparing to the available service coolants to the left. (Example: If the car was factory filled with G12++ the coolant allowed is G12++ or G13).



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		Factory Filled Coolant				
		G11 1994>>	G12 1996>>	G12+ 2000>>	G12++ 2005>>	G13 2008>>
Service Coolants	G11	Y	N	N	N	N
	G12	N	Y	N	N	N
	G12+	Y*	Y	Y	N	N
	G12++	Y*	Y	Y	Y	Y
	G13	Y*	Y	Y	Y	Y
		* When mixing G11 with G12+, G12++ or G13, the coolant becomes brown, this is normal				



Tip:

If a vehicle is found to have the incorrect coolant, the cooling system should be drained using the repair manual procedures in Elsa and then filled with the correct coolant.



Note:

Cooling system drain and fill due to coolant mixing or incorrect coolant is not covered by warranty.

Warranty

Information only.

Required Parts and Tools

No Special Parts required.

No Special Tools required.



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Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

Document Control Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2022548/5	6/1/17	V191701	Include additional model and model year applicability.
2022548/1	3/17/10	V191002	Original publication.