	Technical Service Bulletin	Transaction No:	2022548/7
19-17-01 - Identifying and Mixing Volkswagen Engine Coolants (U.S. Only)		Release date:	01/08/2020

Condition

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All (except Routan)	1994-2020	All	All	All	All

Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2022548/7	1/8/2020	19-17-01	To add additional models and model year applicability along with new coolant type.
2022548/6	4/30/19	V191701	To add additional models and model year applicability.
2022548/1	3/17/10	V191002	Original publication.

Discontinuation and mixing of Volkswagen approved engine coolants.


Technical Background

Coolants G11, G12, G12+, G12++ and G13 have been replaced by an improved version.

G12evo Coolant is introduced on all engines.

Production Solution

No production change required.

	Technical Service Bulletin	Transaction No:	2022548/7
19-17-01 - Identifying and Mixing Volkswagen Engine Coolants (U.S. Only)		Release date:	01/08/2020

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+, G12++, G13 and
G12evo - 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 ++, G13 and G12evo 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++, G12evo or G13).

	Technical Service Bulletin	Transaction No:	2022548/7
19-17-01 - Identifying and Mixing Volkswagen Engine Coolants (U.S. Only)		Release date:	01/08/2020

		Initial Filling / Series use / Currently in the coolant circulation					
		G11 ab 1994	G12 ab 1996	G12+ ab 2000	G12++ ab 2005	G13 ab 2012	G12evo ab 2019
How to Replenish	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	Yellow	Green



Green: in any ratio (based on the generation of coolants).

Yellow: Allowed, but deterioration of corrosion protection.

Red: DO NOT mix.



Note:

When mixing G11 with G12+, G12++, G13 or G12evo the coolant becomes brown, this is normal.

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




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.

Warranty

Information only.

	Technical Service Bulletin	Transaction No:	2022548/7
19-17-01 - Identifying and Mixing Volkswagen Engine Coolants (U.S. Only)		Release date:	01/08/2020

Required Parts and Tools

No Special Parts required.

No Special Tools required.

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.