

Technical Service Bulletin



19 Identifying and Mixing Factory Fill Engine Coolants

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Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	1994 - 2014	All	Not applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised <i>Service</i> (Removed note about W12 engines)
2	3/25/2013	Revised <i>Technical Background</i> (Added information about G13)
1	2/10/2011	Initial publication

Discontinuation and mixing of Audi-approved engine coolants.

Technical Background

- G11, G12, and G12+ coolants have been replaced by an improved version.
- G12++ coolant (for service available) has been introduced in MY 2005 for all engines.
- G13 has been introduced in MY 2008 as factory filling and service.

Production Solution

No production change required.

Service

Identifying and mixing factory fill engine coolants

1. Based on its color, identify which coolant the vehicle was filled with from the factory (Figure 1).



Tip: Figure 1 is shown for color identification only; coolant packaging may vary.



Figure 1. The color of each type of engine coolant. G11 (green-blue), G12 (red), G12+, G12++ and G13 (purple).

2. Using the chart at right, determine if the vehicle has the correct coolant (Figure 2). If a vehicle is found to have the incorrect coolant, drain and fill the coolant system using the repair manual procedures in Elsa.

		Factory Filling				
Can be mixed with ...		green-blue G11 ≥ 1994	red G12 ≥ 1996	purple G12+ ≥ 2000	purple G12++ ≥ 2005	purple G13 ≥ 2008
G11	↓	Green	Red	Red	Red	Red
G12		Red	Green	Red	Red	Red
G12+		Green	Green	Green	Red	Red
G12++		Green	Green	Green	Green	Green
G13		Green	Green	Green	Green	Green

Figure 2. The table identifies which Service coolants (left) can be added to the Factory Filled coolant (top).



Note:

Coolants can be mixed, as described in the chart, but it is always best practice to change the coolant due to reduced corrosion protection when coolants are mixed (exception: G12++ and G13 are fully compatible).

Only use distilled water for mixing coolant.



Note:

When the coolant is changed due to a cooling system issue, the cooling system should be drained using the repair manual procedures in Elsa and refilled with water and the engine run for 15 minutes with the heater on to remove any residual coolant. Then drain and fill the system to the freeze protection ratio listed in Elsa.



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

Warranty

This TSB is informational only and not applicable to any Audi warranty.

Required Parts and Tools

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 Department and Repair Manuals for the latest information.