

Technical Service Bulletin

19 Identifying and mixing factory fill engine coolants

19 18 93 2025303/7 June 20, 2018. Supersedes Technical Service Bulletin Group 19 number 15-62 dated September 8, 2015 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	1994 - 2019	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised header data (Added model years)
6	09/08/2015	Revised <i>Service</i> (Added information about reusing coolant)
5	07/07/2015	Revised header data (Added model years)

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- G11, G12, and G12+ coolants have been replaced by an improved version.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



Technical Service Bulletin

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					
G12					
G12+					
G12++					
G13					

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

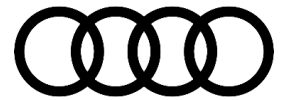


Note:

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.

Drained coolant must not be reused.



Technical Service Bulletin



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 (2025303) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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