17 Radiator

Technical data					Page	17 -	0/3
17 00 009	Checking cooling system for leaks					17 -	00/1
17 11 000	Removing and fitting radiator					17 -	11/1

17-0/1



Specifications

Radiator								
Model		1502	1602	1802	2002	2002 A	2002 TI	2002 tii
Coolant capacity incl. heater litres (Imp. pints/US qts)				7 (12.3/7.4)				
Radiator cap	bar			1, 0+0.15 (14.2 +;	.1			
Excess pressure	(lb/in ²)			-0.10	, 4			
Vacuum	bar (lb/in ²)			down to 0.1 (1.4)	.4)			
Antifreeze			Brand-name Ic	Brand-name long-life antifreeze and corrosion inhibitor		- see page 17-0/4		
Mixing ratio	%			60 : 40 (water : antifreeze)	: antifreeze)			
Radiator test pressure	bar (Ib/in ²)			1.5 (21.3)				
Gearbox oil cooler test pressure	bar (Ib/in ²)					5 (71)		
1) Renew every 2 years								

Tightening torques in Nm (mkp) (ft.lb)

Radiator cap and drain plug	9 11 (0.9 1.1) (6.5 8.0)
Hollow bolt for supply and return pipes at	40 45 (4.0 4.5) (28.9 32.5)
converter housing	
Supply and return pipes at oil cooler	12 15 (1.2 1.5) (8.7 10.8)

Specifications

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Approved brands of long-life antifreeze with corrosion inhibitor

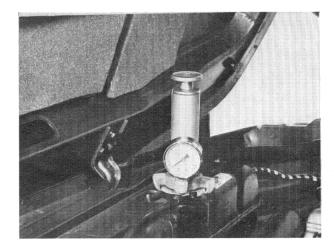
_		Manifestives or cinnelier
	Designation	Mailulactural of supplied
	Agip F 1 Antifreeze	Agip
	BP Anti-Frost (H 22)	ВР
-	Chevron Antifreeze	Chevron
	Avia Antifreeze	Avia
	Fina Termidor	Fina
	Antifreeze Coolant	Техасо
	Total Frostfrei UK 5110	Total
	Genantin	Farbwerke Hoechst AG
	Fuchs Frostschutz V 9110	Fuchs Mineralölwerke GmbH
	500 Antifreeze	Mobil Oil
-	Kiilarfrostschutz Ontimol	Optimol-Ölwerke GmbH
	Frostschutz Westfalen	Sauerstoffwerk Westfalen AG
	The following additional products are also approved, but must not remain in contact with the car's paintwork for any	hain in contact with the car's paintwork for any
	length of time — risk of damage to paint surface.	
	Designation	Manufacturer or supplier
	Frostschitz Aral	Aral KG
	Glysantin	BASF AG
	Antifreeze	Castrol
	Esso radiator antifreeze	Esso
	Veedol antifreeze and summer coolant	Getty Oil

17 00 009 Checking cooling system for leaks

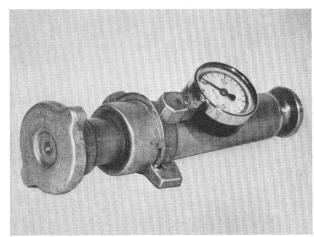
Secure test instrument on radiator.

Generate approx. 1 atü (14.7 psi) in cooling system by means of a hand pump.

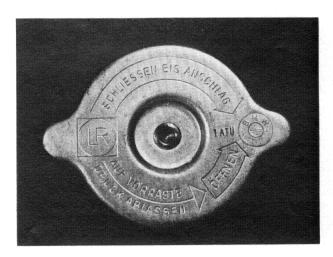
The cooling system is completely tight if no pressure drop is seen after approx. 1 - 2 minutes.



Secure radiator filler cap and test instrument on connection piece.



The opening pressure¹) must correspond to the data on the radiator filler cap.



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17 11 000 Removal and fitting of radiator

Drain coolant. When doing this, move warm air temperature on instrument panel to the right so that it is set to "Warm". Unscrew radiator cap and hexagon head bolt (drain plug at the bottom left of the radiator.

Note when fitting: Note correct tightening torque¹).

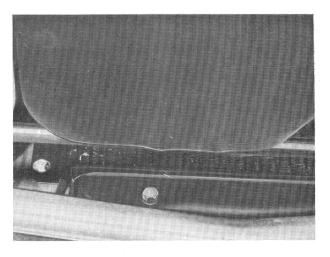
When refilling the coolant system, set warm air temperature lever to "Warm" and slowly fill up radiator. Screw on radiator cap until stop II is reached.

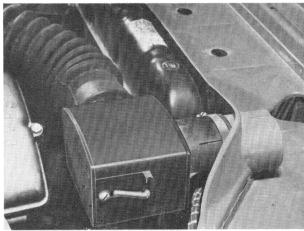
Drive car or let engine run until normal operating temperature is reached. Screw radiator cap further until stop I, as this bleeds any air from the coolant system, an then remove. Fill in coolant so that at least 2 cm (approx. ³/₄ in.) is left free underneath the radiator cap and screw on cap tightly.

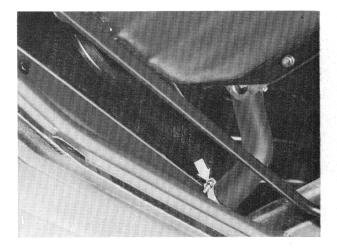
Remove pre-heating unit.

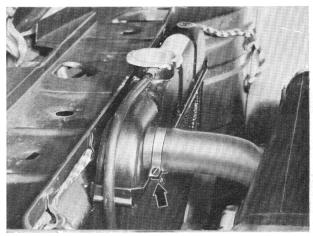
Detach coolant hose at bottom right.

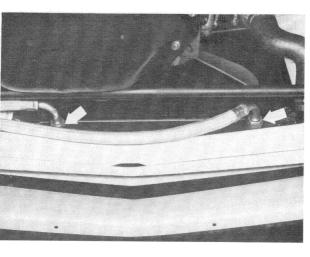
Detach coolant hose at top left.













If radiator is fitted with oil cooler, detach inflow and reflow pipes.

Note when fitting: Check gearbox oil level.

Unscrew hexagon head sheet metal bolts at the left and right of the front panel. Lift out radiator.