

17 Radiator

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RadiatorSPECIFICATIONS

Model	320 i	320 i A
Coolant capacity including heater	ltr (qts)	approx. 7.0 (7.4)
Radiator cap	bar (psi)	1.0 ± 0.15 (14 ± 2)
Safety valve opens at	bar (psi)	0.1 (1.4)
Vacuum valve opens at	ltr(qts)/h	20 (21)
Coolant leak rate on shut (cold) valve	bar (psi)	0.5 (7)
Max. pressure	bar (psi)	1.5 (21)
Radiator testing pressure	bar (psi)	1.15 (16)
Max. operating pressure	ltr(pts)/min	0.8 (1.7)
Min. flow rate ¹⁾	bar (psi)	12.0 (170)
Oil cooler	bar (psi)	8.0 (114)
Testing pressure	-	
Operating pressure	-	
Antifreeze ²⁾		branded long-life antifreeze with corrosion inhibitor (see page 17-0/4)
Mixing ratio	%	60 : 40 (water : antifreeze)

1) For optional extra air conditioner; requires exchange of radiator and oil cooler on all models.

2) Replace every 2 years.

	<u>Torque Specifications in Nm / kpm (ft. lbs.)</u>	
Fan housing to radiator (metal screw)	8 ... 9 / 0.8 ... 0.9	(6 ... 6.5)
Radiator to body front wall M 6	6 ... 7 / 0.6 ... 0.7	(4.5 ... 5)
Supply and return lines to oil cooler	12 ... 15 / 1.2 ... 1.5	(9 ... 11)

Approved Brand-name Long-life Antifreezes with Corrosion Inhibitor

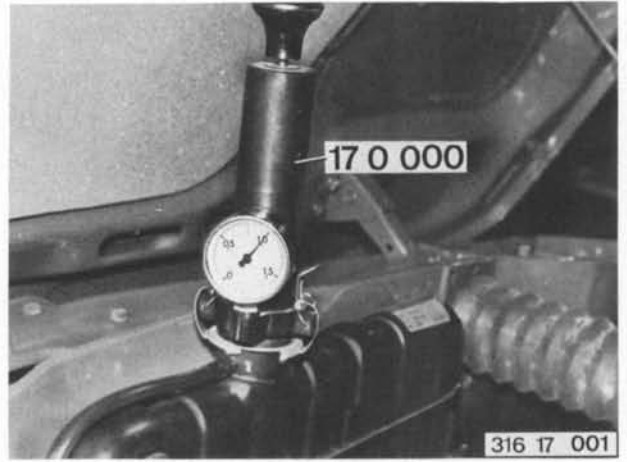
<u>Designation</u>	<u>Manufacturer or Supplier</u>
Agip F 1 Antifreeze	Agip AG, Munich
BP Anti-Frost (H 22)	BP
Chevron Antifreeze	Chevron Erdöl Deutschland GmbH
Avia Frostschutz	Deutsche Avia Mineralöl GmbH
Fina Termidor	Deutsche Fina GmbH
Antifreeze Coolant	Deutsche Texaco GmbH
Total Frostfrei UK 5110	Deutsche Total GmbH
D 824 AC	DOW Chemical
Genantin	Farbwerke Hoechst AG
Fuchs Frostschutz V 9110	Fuchs Mineralölwerke GmbH
ICI 200	Imperial Chemical Industries
Frostschutz 500	Mobil Oil AG
Kühlerfrostschutz Optimo1	Optimol-Ölwerke GmbH
Frostschutz Westfalen	Sauerstoffwerk Westfalen AG
Tegee Kühlerfrostschutz	Tietjen and Gehrke, Bremen

The products listed below are also approved, but with the restriction that they not be allowed to come in contact with body paint for any prolonged period to avoid damage to painted surface.

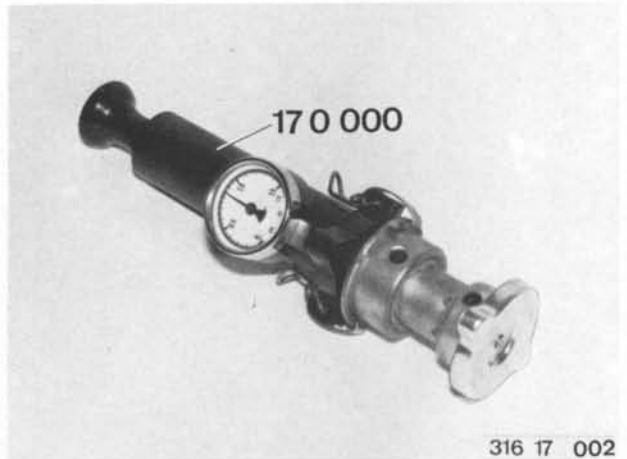
<u>Designation</u>	<u>Manufacturer or Supplier</u>
Frostschutz Ara1	Ara1 KG
Glystantin	BASF AG
Antifreeze	Deutsche Castro1 GmbH
Kühlerfrostschutz Esso	Esso AG
Veedol Antifreeze and Summer Coolant	Getty Oil GmbH

17 00 009 CHECKING COOLING SYSTEM FOR LEAKS

Secure tester to radiator.
Produce a pressure of about 1 bar (14 psi) in cooling system with manual pump.
The cooling system is tight, if there is no drop in pressure during next 1 ... 2 minutes.



Mount radiator cap and tester on connector, and produce pressure with manual pump.

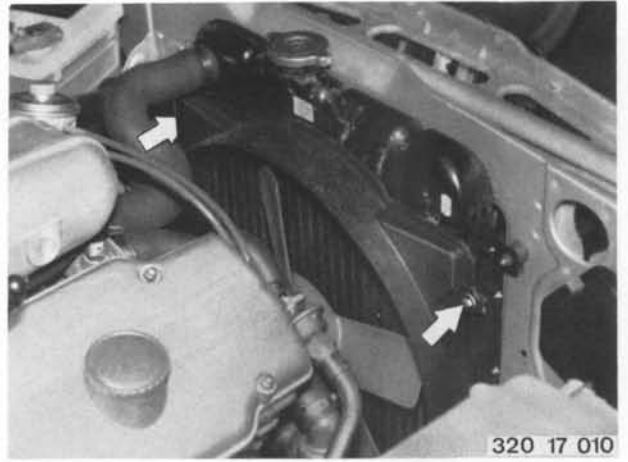


Opening pressure¹⁾ must correspond with data on radiator cap.



17 11 000 REMOVING AND INSTALLING RADIATOR

Loosen mounting screws on fan housing.

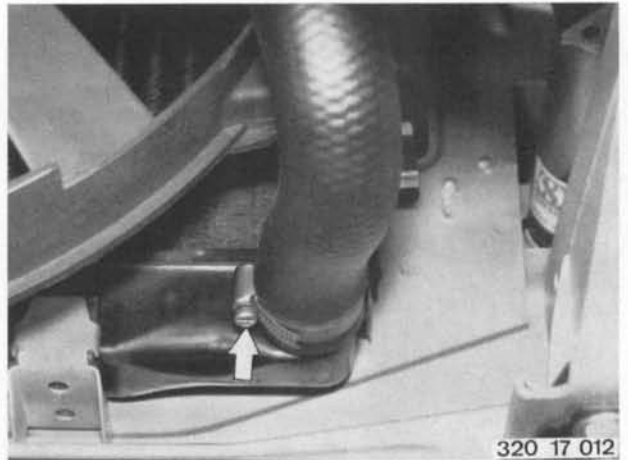


Pull up fan housing and place it back over fan.

Installation Note! Guide fan housing down into holders.



Unscrew radiator cap.
Move heater temperature control lever on instrument panel at "warm".
Detach bottom right coolant hose at radiator.

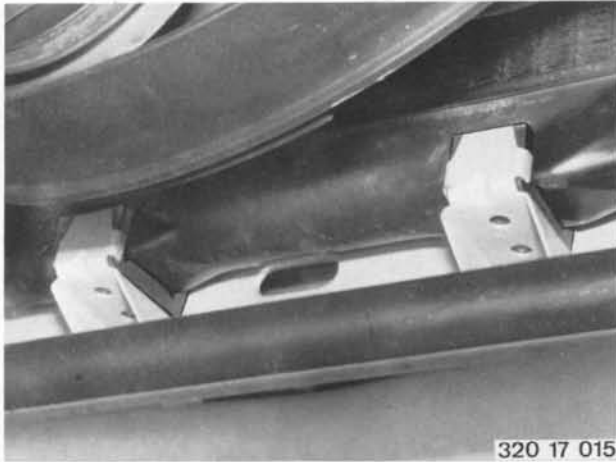


Detach top left coolant hose at radiator.
Loosen mounting screw.





Loosen right mounting screw.



Installation Note! Push radiator body into holding rubber at base.

Replace damaged holding rubber.

Installation Note! When filling cooling system for first time, set heater temperature control lever at "warm" and fill radiator slowly. Tighten radiator cap by turning to catch II. Drive car or run engine until at normal operating temperature. Turn radiator cap to catch I, bleeding the cooling system, and remove cap. Fill radiator until level is max. 2 cm (0.787 in.) below base of cap and screw on cap tightly.