

## 1987-91 ENGINE COOLING

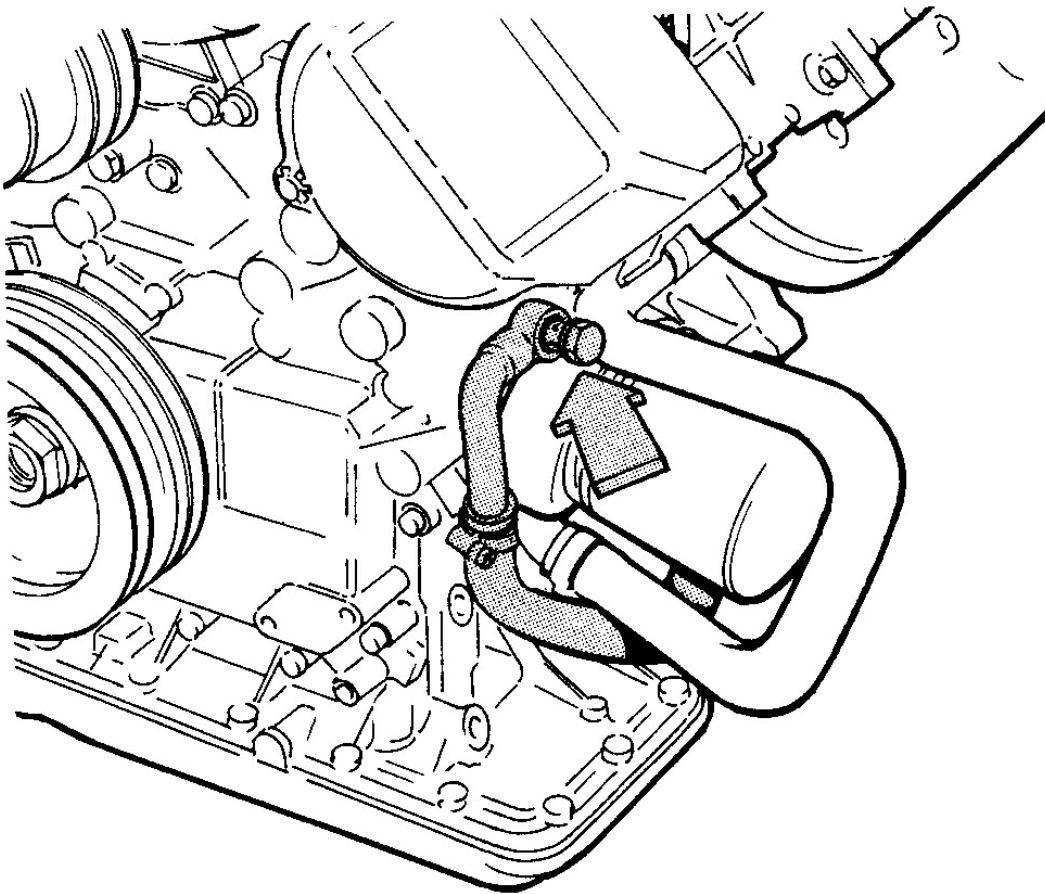
### Cooling System Specifications & Drive Belt Routing - 780

## BLEEDING

### DRAINING COOLING SYSTEM

**CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.**

Disconnect negative battery cable. Remove cap from expansion tank. Remove water valve vacuum hose. Remove engine splash guard. Lower coolant hose from radiator. Turn banjo bolt several turns until coolant is released. See [Fig. 1](#) . Retighten when coolant stops flowing. Reconnect lower coolant hose to radiator. attach a hose to nipple and open tap on right side. Close tap when coolant is drained. Install engine splashguard.



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**Fig. 1: Identifying Coolant Hose Banjo Bolt**  
Courtesy of VOLVO CARS OF NORTH AMERICA.

## FILLING COOLING SYSTEM

Remove vacuum hose from heating system water valve. Fill cooling system through expansion tank. Warm up engine and top off, if necessary. Replace expansion tank cap. Connect vacuum hose to water valve.

## SERVICING

Manufacturer suggests coolant be changed every 25,000 miles (40,000 km) since corrosion-protective additives in coolant lose effectiveness over time.

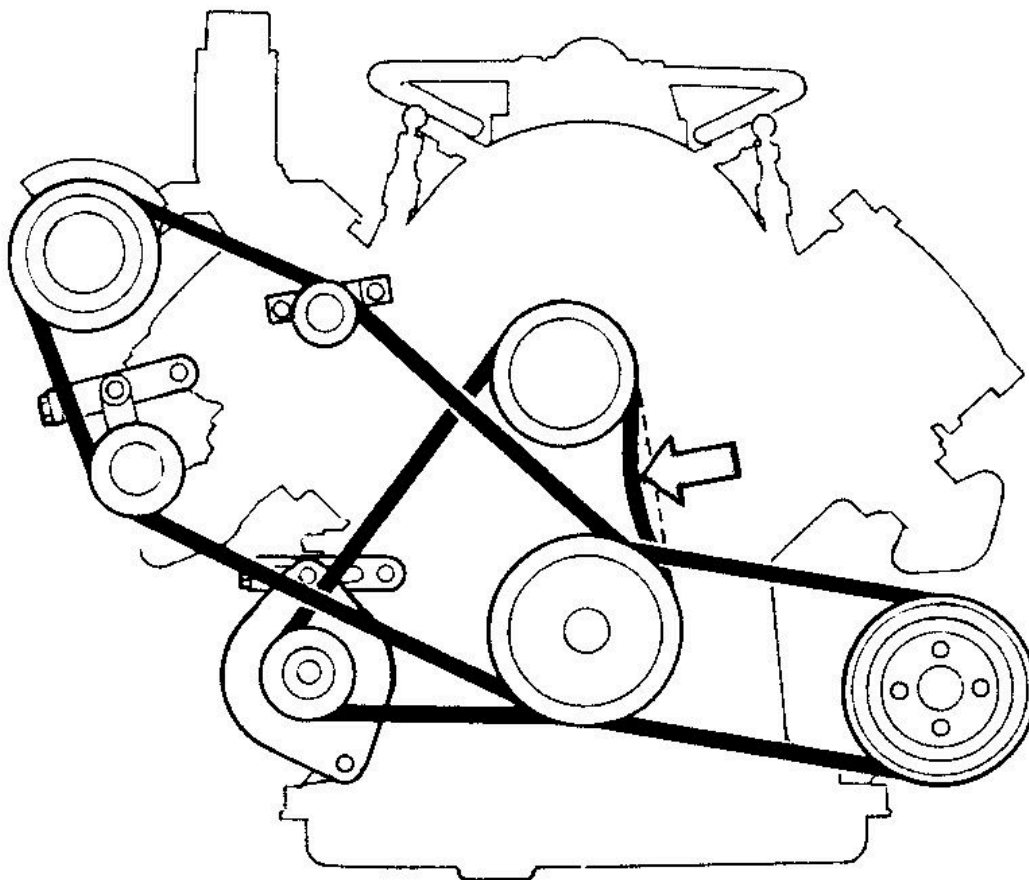
## ADJUSTMENTS

**NOTE:** Tension for drive belts should be able to depress 0.2-0.4 in (5-10 mm) midway between pulleys. See [Fig. 2](#).

## DRIVE BELT ROUTING

## 1991 Volvo 780 Turbo

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**Fig. 2: Identifying Drive Belt Routing**  
Courtesy of VOLVO CARS OF NORTH AMERICA.

## COOLING SYSTEM SPECIFICATIONS

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Application	Specification
Coolant Replacement Interval	25,000 miles (40,000 km)
Coolant Capacity	10.8 Qts. (10.2 L)
Expansion Tank Pressure Valve	
Over Pressure	22 Psi (150 kPa)
Negative Pressure	1.45 Psi (10 kPa)
Thermostat	
Starts Opening	185-192° F (85-89°C)
Fully Open	215°F (102°C)
Marked	188.6° F (87° C)