

ENGINE

ENGINE COOLING SYSTEM

The engine cooling system includes the water pump, radiator, water inlet piping, thermostat case, hoses, engine coolant, temperature gauge, cooling fan and water passages in the cylinder block and cylinder head, and tank connected with the radiator.

The water pump draws coolant from the bottom of the radiator and circulates through water passages in the cylinder block and cylinder head. The coolant is discharged from the cylinder head through the thermostat case and radiator inlet hose to the upper part of the radiator.

As the coolant passes from top to bottom of the radiator, the coolant dissipates its heat to the atmosphere due to the air being drawn through the radiator core by the cooling fan. The coolant then is drawn from the bottom of the radiator by the water pump and circulates back to the cylinder block and cylinder head.

The cooling system is pressurized by a 12.8 PSI (88.2 kPa) pressure cap. By pressurizing the system, the normal boiling point 212°F (100°C) of clean water at sea level is raised approximately 3.6°F (2°C) per 1.4 PSI (9.8 kPa). Consequently, coolant in the system at sea level will not boil until a temperature of 212°F (100°C) plus 32.4°F (118°C) or a total of 244°F (118°C) is attained.

Temperature above this figure will cause loss of coolant and result in the engine overheating. Altitude affects the point at which coolant will boil; that is, the higher the altitude, the sooner (lower temperature) the coolant will boil. To estimate coolant boiling point at various altitudes above sea level, deduct 3 to 1.8°F (0.5 to 1°C) per 1000 feet (304.8 mm) of altitude, from 244°F (118°C) the boiling point established with a pressure cap at sea level.

A double-acting valve in the radiator pressure cap allows coolant to overflow to reserve tank when coolant expands by heating and return when coolant contraction occurs. Because this is a pressure-type cooling system, it is necessary to keep the radiator cap tight at all times to prevent loss of pressure.



CAUTION: Do not remove radiator filler cap while coolant temperature is near 212°F (100°C) or above because it will boil violently and may splash on you. It is not necessary to remove radiator cap to add coolant.

GENERAL MAINTENANCE OF COOLING SYSTEM

In warm weather keep the cooling system filled with clean, soft water or rain water. If soft water is not available and hard water must be used it must first be

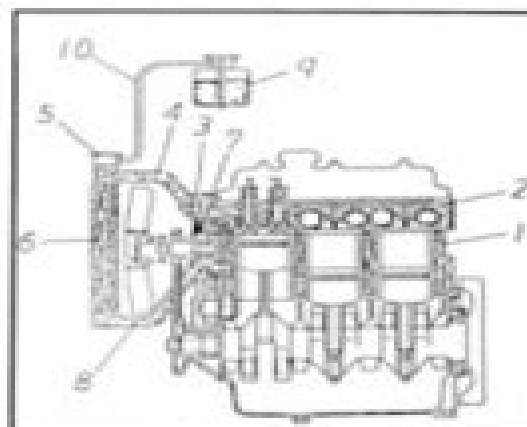


FIGURE 8 - Cooling System Schematic Diagram

1. Cylinder Block
2. Cylinder Head
3. Thermostat Case and Thermostat
4. Radiator Inlet Hose
5. Pressure Cap 12.8 PSI (88.2 kPa)
6. Radiator
7. By-pass Hose
8. Radiator Outlet Hose
9. Reserve Tank
10. Overflow Hose

treated with a water softener. A cooling system conditioner (sealant oil) is available at ALLIS-CHALMERS dealers and should be added to the water for warm weather operation.

In winter weather use a glycol base permanent anti-freeze solution in the system to protect against damage from freezing. After any addition of water or anti-freeze compound, test the solution after it has become thoroughly mixed to ensure it will withstand prevailing or anticipated temperatures.

Refer to instructions on protection charts furnished by the anti-freeze manufacturer for information on quantity required for lowest anticipated temperature. Usually a mixture of 60% glycol-base anti-freeze and 40% water provides maximum protection. Keep radiator air passages free of leaves, trash and other material that may restrict flow of air through the radiator.

NOTE: Keep cylinder head cap screws, water pump mounting cap screws, hose clamps and fitting connections tight. Correct all leaks as soon as they become evident. Inspect hoses carefully and replace them if they have deteriorated.

Allis Chalmers 6140 Service Manual

Ying-Ying Zheng



Allis Chalmers 6140 Service Manual:

Technical Manual, Operator and Organizational Maintenance Manual ,1990 **Operator's, organizational, direct support and general support maintenance manual (including repair parts information and supplemental maintenance and repair parts instructions)** ,1984 **Monthly Catalog of United States Government Publications** ,1991 *Monthly Catalogue, United States Public Documents* ,1983 *Factory Management and Maintenance* ,1953-07

Heating, Piping, and Air Conditioning ,1951 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section **Mill and Factory** ,1951 **Product Engineering** ,1951 Vols for 1955 includes an issue with title Product design handbook issue 1956 Product design digest issue 1957 Design digest issue **Mill & Factory** ,1951

Heating, Piping & Air Conditioning ,1951 Issues for Jan 1935 contain a directory of heating piping and air conditioning equipment

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