## the thermostat

Describe the part.	How does the part work/operate? What does it do?
The thermostat can be described as a special kind of	The thermostat has major functions. It helps the
that is controlled by	engine to
	and also controls/regulates
	When coolant is cold the thermostat is
	When the coolant warms to a set temperature, the
	thermostat
	There is also a bypass near the thermostat. When the
	engine is colds, and the thermostat is,
	the bypass allows coolant toto the water
	pump and back to the water jackets so that all of the
	engine parts evenly.
	The thermostat valve spring closes the thermostat, and
	a wax motor or pellet it.
	If a thermostat fails it will be stuck in either a/an
	or a/an position.
	If it is stuck,
	the engine will take a long time to warm up and the
	heater won't heat up very quickly. It the thermostat is
	stuck, the engine will overheat.

## the water pump

Describe the part.	How does the part work/operate? What does it do?
The water pump is a nonpositive displacement	The water pump can be operated by the accessory drive
pump.	or in some engines might be
	driven by a
	Coolant enters the pump at the
	and is spun out to the outlet. Coolant moves through the
	lower water jackets and around the engine's
	Then it flows to the of the engine and
	then to an outlet located at the front of the head or intake
	manifold.

## the radiator

Describe the part.

How does the part work/operate? What does it do?

The radiator's job is to get rid of excessive	Some vehicles use a design,
from the engine. It is a heat	and the direction of the flow is from
Most have and tubes. The fins attach to	to
the to produce the contact	water drops, and water
area. This fin and tube area is called the	rises.
that joins the header and tank.	Most vehicles have a
	design. This type of design flows from one
	to the other
	Older radiators were constructed using
	orNewer radiators are made using