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(57) Abstract :
The air-conditioning system in a car works by manipulating refrigerant between a liquid and a gaseous state. As the refrigerant changes states, it absorbs heat and humidity from the vehicle and allows the system to give off cool, dry air. To change the refrigerant between a liquid and a gaseous state, the air-conditioning system works to control pressure and temperature. When the gas level in the tank decreases, it reduces the cooling temperature and it creates a hot and humid temperature inside the car. During long travel, this problem creates huge trouble. To overcome this, it is auto-filled by the backup tank by using sensors and a limit switch and it is also possible to indicate the amount of gas present in the tank.

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