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## Maintenance

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For each individual, the investment to be made in automobiles is relevant. Today, automobiles are designed to provide many years of service without general repair. To comply with our maintenance duty, we have to prevent destruction by coolants, improper oils or environment contaminants, by training our mechanics and changing their traditional way of thinking focused on corrective maintenance towards preventive maintenance attitude.

It is recommended to implement preventive maintenance to decrease automobile maintenance costs, to do this, we suggest considering the following items:

1. The engine without a thermostat should be replaced, as a priority.
2. Check out the system. If corrosion is present, the radiator should be washed with a product eliminating corrosion, water rinse and check out leakage. Do not forget to open the heating valve (if any) for the cleaner to circulate all around the system.
3. Check out fins to ensure they are straight and clean, by eliminating mud, insects and damages caused by improper maintenance.
4. Check out hoses, by replacing those weak, dry or degraded. Also, check out heating hoses, if any.
5. Check out belts, by replacing those dry, worn or weak.
6. Put 50% Coolant/Anticorrosive mixture recommended by the Manufacturer and 50% distilled water. It is strictly advisable to prevent the use of well water or tap water since they may cause problems due to the presence of salt or chlorine.
7. After changing water, check out the water level after engine heating/cooling process one or two cycles. During that period of time, trapped air will come out and the system will be full.
8. Never operate by using a coolant low-level where air may be into the system. This air causes gelatinous substances and cavitation.
9. If the system is provided with a tank or recovery container to collect the coolant residuals, keep level between maximum and minimum, without removing the radiator cap.
10. If the system does not have a separated tank and it is full by the same radiator, do not try to fill it out up to the top. Leave 2 centimeters of air between the neck and mixture.
11. If the engine is overheating:
  - Turn off the air conditioning (if any). This decreases the engine operation and temperature.
  - Prenda la calefacción al máximo. El calor que entra a la cabina es calor que se quita del motor. Turn on heating to the top level. Heat entering into the cabin is heat removed from the engine.
  - If you are into the traffic and cannot move, turn off the engine, open the Hood, and let it be cooled.
  - If you are on the way, check out speed. There is a speed that will provide enough air to the engine to be cooled. By passing this speed, it is hotter due to the engine operation when pulling against the air.
  - NEVER increase the water level in a hot engine with out operating. This allows new water is mixed with hot water into the radiator before circulating into the engine.

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