

# HG – 123 INSTRUCTIONS

## HEAD GASKET KIT REPAIR



**IMPORTANT:** Applicable exclusively in closed cooling systems and in presence of CO<sub>2</sub>.

### RECOMMENDED:

- Use a CO<sub>2</sub> detector before starting the repair (presence of CO<sub>2</sub>) and after applying HG-2 (CO<sub>2</sub> disappearance).
- Whenever it is possible remove the thermostat to facilitate the recirculation of the coolant.
- After applying HG-2, do not hesitate to repeat steps 7 (heat) and 8 (cool).

### HG-1 COOLING CIRCUIT CLEANING

1. Check the presence of CO<sub>2</sub> in the system.
2. Shake well and pour HG-1 into the cooling circuit without draining the refrigerant.
3. Let engine idle for 30-40 minutes heating on.
4. Empty and clean with water.
5. Fill with new coolant.

### HG-2 HEAD GASKET REPAIR

6. **With the engine totally cold:** add HG-2 to the cooling circuit through the expansion vessel or the radiator. In case of excessive pressure, previously extract 500 ml of refrigerant.
7. **Warm up the engine:** with expansion vessel or radiator closed (if overpressure doesn't allows it, keep cap open), start the engine and bring it to service temperature until the coolant circulates (**thermostat open**). Keep the engine warm with active recirculation for **15 minutes** avoiding HG-2 spillage during the process. Whenever it is possible remove the thermostat to facilitate the recirculation of the coolant.
8. **Cool the engine completely:** turn off the engine and leave on for **12 hours**.
9. Check the absence of CO<sub>2</sub> in the system.
10. If necessary, repeat step 7 and 8 until CO<sub>2</sub> is not present anymore or, if applicable, apply a 2nd dose of HG-2 starting with step 6.

### HG-3 COOLING CIRCUIT PROTECTION

11. Pour HG-3 into the radiator or expansion vessel with cold engine.
12. Start the engine with the heating on and bring it to service temperature.
13. Let the vehicle idle for 5 minutes.

