

For cleaning injectors in petrol injection systems mit 937 Injector Intensive Cleaner

Important warnings

- Use only microflex® 937 Petrol Injector Intensive Cleaner to clean petrol injection systems.
- Cleaning can be carried out without having to remove the injectors using the TUNAP ICM 2020 art. no. 1400850.
- Before disconnecting the fuel lines, ensure that the lines are not pressurised.
- Observe the manufacturer's instructions before working on petrol fuel systems.
- Wear suitable protective clothing, protective gloves and safety goggles/face protection while working.
- The engine must be at operating temperature before cleaning.
- Carry out a test drive after cleaning. Read out/clear the fault memory.
- Treat the tank regularly with microflex® 974 Petrol Injector Direct Protection after cleaning and as a preventative measure. When doing so, use the filling nozzles supplied.

Attention!

- No smoking, fire or open flames.
- Use protective gloves and safety goggles.
- Operation and maintenance may only be carried out by trained or instructed specialists. The potential dangers must be pointed out during instruction. Safety information must be observed.
- Please read this Service Information/manufacturer's specification carefully and in full before operating the TUNAP ICM 2020 for the first time. (SI 13310)
- The TUNAP ICM 2020 is intended exclusively for professional use in the motor vehicle industry and is approved for the following cleaning purposes: Cleaning injector systems on diesel vehicles, cleaning injector systems on petrol vehicles.
- The safety precautions must be followed in order to prevent damage to the device, damage to the injector system being cleaned or personal injury.
- Observe the latest safety datasheet.
- The cleaning fluid must not come into contact with any plastics or paints.
- The Injecto Clean cleaning system is approved only for use with the microflex® 938 Diesel Injector Intensive Cleaner and the microflex® 937 Petrol Injector Intensive Cleaner. Use of unapproved cleaning chemicals can result in operational or safety issues.
- Maintenance and service may only be carried out by the manufacturer of the cleaning system.
- Use only original TUNAP spare parts and accessories to ensure safety.
- Never use the cleaning system in an explosion-hazardous area.
- If a connection hose or connecting cable (power supply) becomes damaged, replace it immediately.

Application

1. Disconnect the fuel supply (feed) to the engine near the high-pressure pump or the injector fuel supply manifold. Seal the feed line at the vehicle end. On vehicles with a return line, connect the feed and return.
2. Install the appropriate connection adapter on the engine end of the feed line. Connect the feed from the ICM 2020 to the engine using the appropriate connection adapter. On vehicles with a return line, connect the vehicle return line to the return line of the Injecto Clean device.
3. Pour at least two cans of microflex® 937 Petrol Injector Intensive Cleaner (on initial fill) into the Injecto Clean device. The can's internal pressure is sufficient for filling. For engines with more than eight cylinders or displacement above 3,000 ccm, use three cans for the initial fill. Use one or two cans for topping up. Connect the power supply of the Injecto Clean device to the 12 V vehicle battery using the appropriate terminal (ensure correct polarity).
4. Switch on the Injecto Clean device using the power switch and use the pressure regulator to set the fuel pressure between 3 and 3.5 bar (corresponds to vehicle pre-supply pressure, obtain value from workshop documentation if necessary). Start the vehicle and allow it to run idle for approx. 20 minutes on the microflex® 937 Petrol Injector Intensive Cleaner. After 20 minutes, switch off the engine and allow the microflex® 937 Petrol Injector Intensive Cleaner to work for at least 30 minutes and up to 60 minutes. Then restart the engine and run it for a further 20 minutes at varying speeds (max. 2,500 rpm).
5. Switch off the engine and allow the fuel system to cool down. Disconnect the hoses of the Injecto Clean device from the connection adapters at the quick-action couplings. Caution! A small amount of cleansing fuel may escape from the connection adapters. Collect it with a suitable cloth or paper towel. Disconnect the connection adapter from the feed and return. Reconnect the fuel supply to the vehicle and check for leaks. Reset the fuel adaptation values in the engine control unit.
6. Start the engine and allow it to run idle for a few minutes. Clear any error codes. Check the fuel system connections for leaks. Replace the fuel filter (art. no. 13310-12) in the return feed of the Injecto Clean device.
7. If the device will not be used for more than two days after cleaning or if it is a diesel vehicle being cleaned, all residue must be drained from the tank in the device and the connection lines. To do so, plug the connection pieces into the feed and return lines of the Injecto Clean device and place them in a suitable container (at least 1 litre). Switch on the device and pump out the residual fluid until nothing comes out of the hoses. Switch off the device and remove the connection pieces from the feed and return lines. Disconnect the Injecto Clean device from the battery (observe the correct sequence). Seal the ventilation opening and the fill coupling with the red sealing caps.

