

J02280/J02285 Instruction Manual

JLM Diesel Intake Extreme Clean treatment

Two-step diesel air intake & turbo cleaner

Product description

JLM Diesel Intake Extreme Clean treatment is a unique and very effective high-grade product for cleaning typical contamination and deposits found in the air intake, combustion chamber, intake valves, injector tips and turbo variable vanes. The Diesel Intake Extreme Clean restores the original air flow to the engine making it breathe fresh air once again.

Benefits

- An innovative two-step approach cleaning solution for maximum combined effectiveness.
- Effectively cleans the air intake, throttle valve, combustion chamber, injector tips and turbo.
- A unique very effective heat resistant detergent package cleans the turbo's variable vanes.
- Improves engine performance, fuel economy, engine idling and starting.
- The controlled dosing system prevents pinging and knocking in highly sensitive modern diesel engines.
- Increases lifetime of sensitive engine components like catalysis and diesel particulate filters.
- Reduces harmful emissions of hazardous exhaust gases.

Application

For all diesel engines with or without turbochargers. Will not harm catalytic converters or diesel particulate filters. Recommended use is each 20.000 km or once per year.

Direction

JLM Air Intake Extreme Clean fluids Step 1 and Step 2 (J02285) are designed to be used only with the dedicated JLM Intake Extreme Clean Toolkit Pro in combination with the Intake Extreme Venturi Disc (J02280, see figure 1).



Figure 1 – J02280 JLM Diesel Intake Extreme Clean Toolkit Pro

Preparation prior to 2-step treatment

1. Ensure the engine is at operating temperature
2. Switch engine off!
3. Ensure oil and coolant levels are sufficient.
4. Locate the intake manifold and remove the hose to the inlet.
5. Clean the air intake with a cloth as much as possible within.
6. Please be mindful of hot parts/surfaces.
7. Check if the EGR (Valve) is heavily contaminated or not. If so, it is recommended to clean the EGR with JLM's Diesel EGR Cleaning Spray before commencing the Intake Cleaning treatment.
6. Disconnect the supply to the EGR valve and /or EGR flowmeter.
7. Make sure the JLM Air Intake Extreme Venturi Disc will be placed behind turbo, intercooler, air filter and air mass meter so the Intake Extreme Clean fluids will not pass through them.
8. Select the best size Intake Extreme Disc.

Two Step Treatment

Step 1 and 2 should be done at idle rpm.
Do not accelerate during the treatment!

Diesel Intake Extreme Clean **STEP 1**

350 ml: 🕒 20-25 minutes



1. Shake the bottle thoroughly and unscrew the cap.
2. Mark a distance of 12 cm on the Intake Extreme Disc hose with a marker.
3. Fill the content of the bottle STEP 1 into the pressure tank and close it tightly.
Make sure all valves are in "closed" position.
4. Connect the pressure tank to the air pressure system.
5. Keep the "outgoing" valve in closed position.
6. Start the engine and let it idle.
7. Place the disc on the air intake. Natural engine suction should keep it at its place. In case the disc does not remain at its designated position due to low suction, check whether the ring correctly closes off the air intake mouth. Adjust position accordingly.
8. Slowly open the outgoing valve. Fluid will start to flow from the pressure tank into the air intake via the disc and hose. The fluid should flow at a speed of max. 12 cm per 10 seconds. Adjust the flow with the fine pressure screw. Make sure the engine will not start to knock and runs smoothly. In case of knocking or uncontrolled running stop the engine immediately (if necessary by closing off the air intake). **DO NOT OVERDOSE!!!**
9. After a few minutes of operation check the air intake to make sure there are no "pockets" filled with fluid. The air intake should be wet, but without pools of fluid.
10. Let the engine idle until the pressure tank is empty. This should take about 20-25 minutes.
Once empty, close the pressure valves on the pressure tank and let the engine run idle for another 5 minutes.
11. Stop the engine and let the product soak in for 5-10 mins, then proceed with STEP 2.



Diesel Air Intake Extreme Clean **STEP 2**

500 ml: 🕒 30-35 minutes

1. Follow step 1-9 from the STEP 1 treatment (see above).
2. Let the engine idle until the pressure tank is empty. This should take about 30-35 minutes. Once empty, close the pressure valves on the pressure tank and let the engine run idle for another 10 minutes.
3. Stop the engine and place the inlet hose back into the normal position.
4. Delete any fault codes via the onboard diagnostic system.
5. Make a test drive of approximately 10 km of which the first part with low to medium rpm and the second part with higher rpm (approx. 3500 – 4000 rpm) to ensure all dirt and fluid residue are removed and the engine is completely dry again.
6. After treatment the oil and oil filter should be replaced. See also the remark(s) below.

Before replacing the engine oil it is recommend to flush the oil system using JLM Engine Oil Flush. In addition it is recommended to add JLM Diesel Injector Cleaner into your diesel fuel to clean injectors and prevent new build-up of carbon deposits. This product should be used every 2000 km to keep your engine clean and perform optimally. Alternatively one can use JLM Diesel Extreme Clean to clean the entire fuel system including injectors and in addition facilitate easy DPF regeneration.