

ALT200

Instruction Manual



SAFETY PRECAUTIONS

- Always keep the engine OFF when using the machine.
- Machine gets very hot during and after use.
- Operate in well-ventilated environments. Do not inhale smoke.
- Wear appropriate safety equipment: eye-wear, gloves, respirator.
- Use caution when servicing fuel systems, vapors are flammable.
- Do not leave the vehicle unattended while equipment is active.
- The machine uses 12V DC electricity. Do NOT use anything else.

SPECIFICATIONS

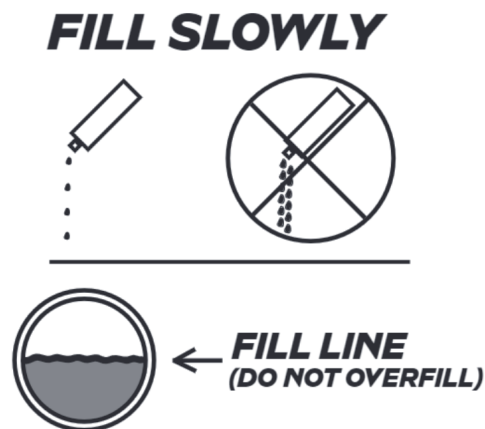
- Power: 12V Vehicle Battery Only, <8 AMP
- Max Output Pressure: 15 to 20 PSI
- Max Flow Rate: Approx. 5L/min
- Smart Overheat Protection: Automatically shuts off if the temperature exceeds 170 Fahrenheit.

WHAT'S INCLUDED

- Smoke Machine ALT 200
- Smoke Fluid
- Hook for Hanging
- Power Cables Output
- Hose
- Cone

MACHINE SETUP

1. SMOKE FLUID REFILL - Work on a level, flat, and even surface. Locate the circular fill level window on the side. Remove the top fill port and fill with smoke fluid until MAX line as shown below. DO NOT OVERFILL. If overfilled, pour out excess fluid. Refill as needed when fluid level reaches MIN line. Performance will be affected when below MIN line.



2. Secure hook to the top of the unit.

SMOKE TESTING

1. Connect smoke hose and power cable to the side of the unit.
2. Clamp cable to fully charged 12V Vehicle Battery. (red=positive, black=negative). DO NOT use other types of power.
3. Switch on and start smoke diagnostics!

VACUUM LEAK TEST - VIA INTAKE BOOT / INTAKE DUCT

1. Remove the air filter housing from the intake boot.
2. Place the Cone Adapter (optional accessory) into the intake boot towards the engine. A DIY adapter can also be attempted by stretching a latex glove over the intake boot and tightening it in place with a rubber band.
3. Connect your smoke nozzle to the Cone Adapter and introduce smoke into the system. If using a latex glove, poke a hole in one of the fingers and inject smoke.
4. Use a flashlight to look for smoke seeping out of leak(s).

VACUUM LEAK TEST - VIA VACUUM LINES (IE. BRAKE BOOSTER)

1. Determine which vacuum line has a clear passageway to your entire intake system. A common test site is the brake booster vacuum line before the check valve. Seal all system openings that smoke will naturally escape from.
2. For the air intake, remove the air filter housing and use Cap Plugs Kit (optional accessory) to seal the intake boot. Alternatively, a latex glove can be used the same way as described previously.
3. Inject smoke into the brake booster line towards the engine and use a flashlight to look for smoke seeping out of leak(s).

EVAP LEAK TEST

1. Use a vehicle scan tool to close the EVAP vent solenoid (if kept open, this solenoid will cause smoke to naturally escape.) Alternatively, you may find a way to block the solenoid vent(s).
2. There are 3 common entryways into the EVAP system:
Gas Filler Neck - Requires a Gas Filler Neck Adapter (Optional Accessory). Note: you will not be able to leak test the gas cap using this method.
EVAP Service Port - Use the EVAP Service Kit (optional accessory) to open a gateway into the EVAP system.
EVAP system - Locate an accessible line in the EVAP system. Disconnect it and plug up the other side.
3. Inject smoke into the system based on your selected method. If using the second or third method, you may open the gas cap until you see smoke coming out, then close it.
4. Use a flashlight to look for smoke seeping out of leak(s) along all the lines of the EVAP system.

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