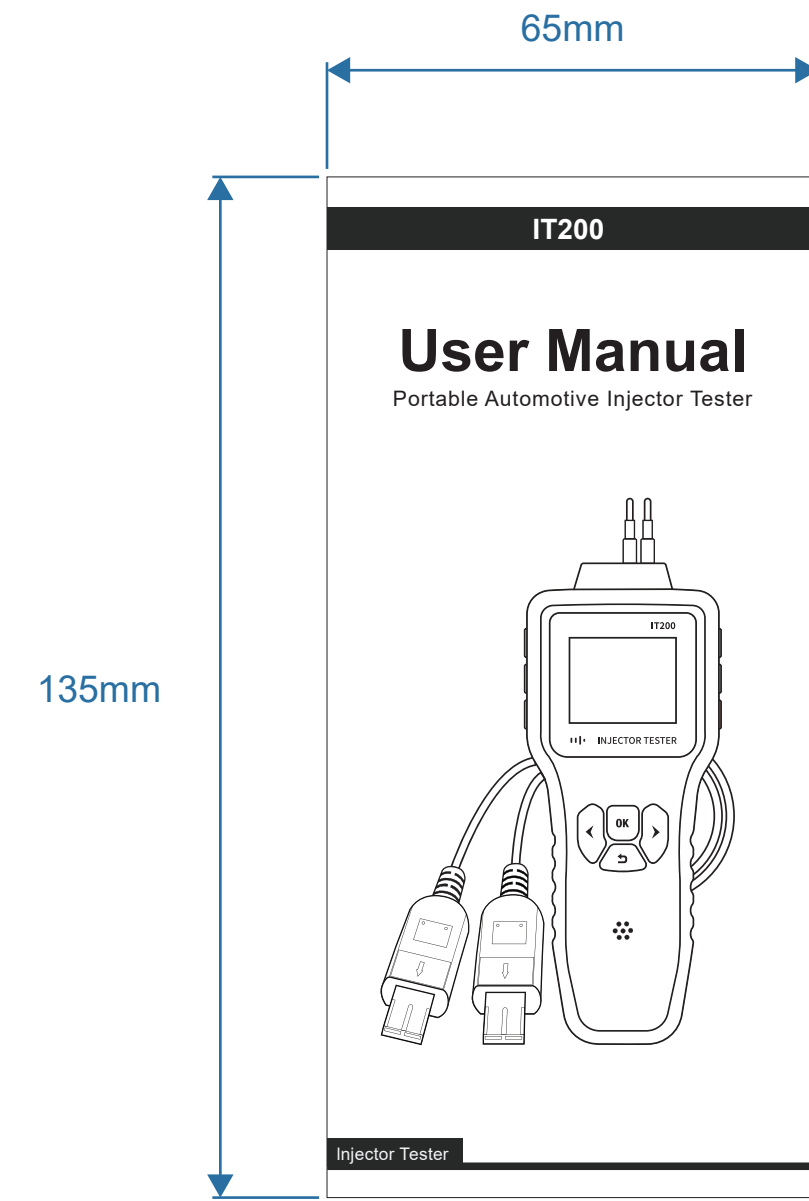


IT200产品说明书 (中英文)

尺寸: 65 x 135mm

印刷工艺: 风琴页 折页 黑白印刷



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1 Safety Precautions
This manual includes instructions for using the device and how to operate, in order to prevent personal injury and damage to the vehicle or fuel injector detector, please read this user manual carefully first, and observe the following safety precautions when operating the vehicle:
1 Before using this injector tester, the engine of the car must be turned off.
2 Do not smoke or light a fire near a car.
3 Do not splash your car's fuel on hot engine parts.
4 Use this injector tester only in ventilated places, and do not inhale the exhaust gases from the car and the vapors generated by fuel volatilization.
5 Do not approach any rotating (or moving) parts of the car, and do not touch any heat-generating parts of the car.
6 Wear safety goggles that comply with ANSI standards.
7 Do not short-circuit the positive and negative poles of your car battery.
8 Always follow the warnings, admonitions, and maintenance instructions in the vehicle maintenance manual.
9 Do not touch any parts of the vehicle with dangerous voltages.
10 Once the test is complete, all disconnected vehicle connections should be properly restored.

1. Product Overview
This instrument can help you diagnose injector problems and test injectors on a case-by-case basis to help confirm block, leaking, or burn-out conditions. It has 5 pulse signal output modes, user can choose one according to needs. Device powered by a 12V/2A DC power adapter, the continuous mode identifies the quality of the injector when the engine is off. The mode lock function ensures consistency when testing the injector. This instrument can be used with any testers.
1.1 Panel Parsing
1 2 3 4 5 6 7 8 9 10 11

1.2 Parameter Information
Table with 2 columns: Project, Description.
Project: Display Screen, Operating Temperature, Storage Temperature, Voltage Support Range, Current Support Range, Power Supply Mode.
Description: 1.8 inch LCD Screen, 0°C-40°C (32°F-104°F), -20°C-50°C (-4°F-122°F), 8V-18V, 0A-5A, DC Hose Battery Clamp Power Supply.

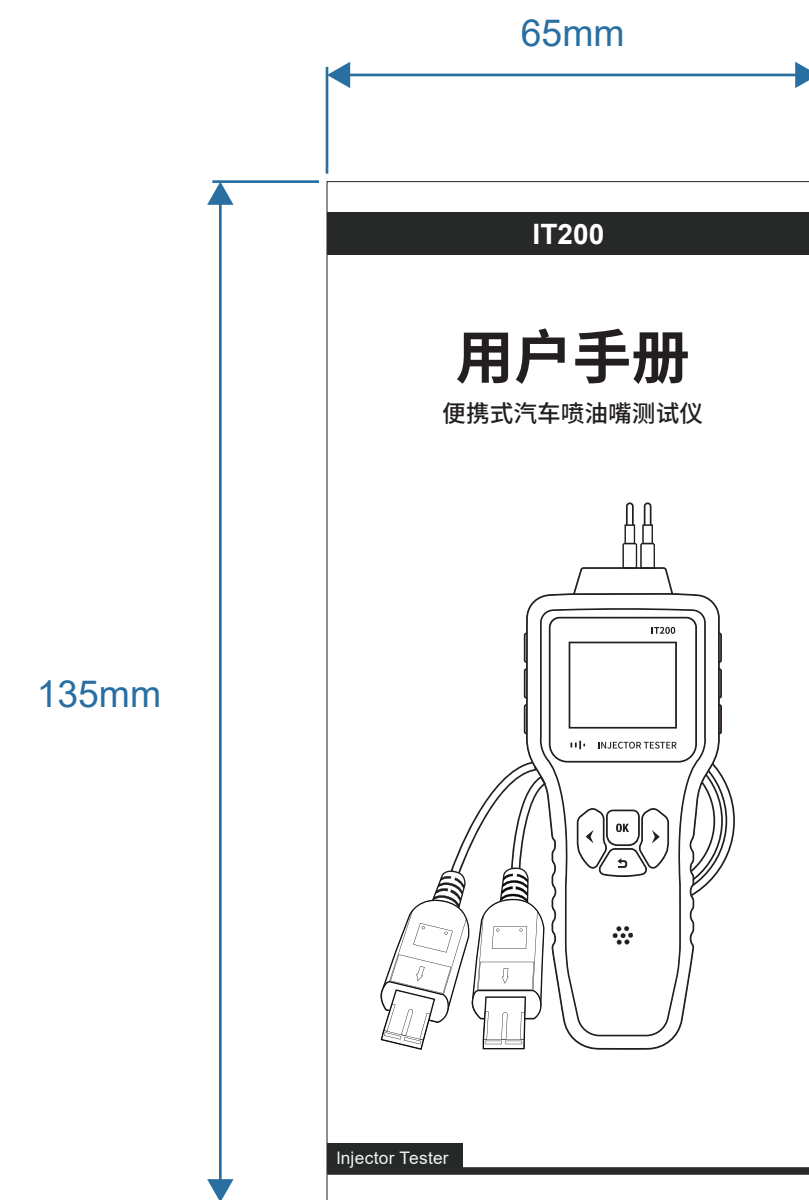
2. Product Features
2.1 Working Mode
1. Turn off the car's engine.
2. Remove the wire plug of the fuel injector from the car, then connect the two pulse output terminals of the device with the fuel injector of the car.
3. Connect the DC plug of the DC hose battery clamp to the device, connect the red clip to the positive pole of the battery, and connect the black clip to the negative pole of the battery. Once you have completed the above steps, you can start the test.
2.2 Procedure
1. Select the injector 5V or 12V then voltage press the "OK" button to confirm (other information will not be displayed at this time).
2. Select the mode (1-5) and press the "OK" button to confirm (at this time, the mode number flashes, and the preset value is displayed but not flashing).
3. Press the "OK" button to confirm the preset value, press the "OK" button again to execute the command (all values in the preset mode flash at this time).
4. Press the "Return" button to return to the previous selection position, press and hold the "Return" button to reset all settings.

5. After the test process finished, press test again, press the "Return" button to exit.
Note: When mode 1 to mode 4 is selected, the corresponding pulse width, frequency, and number of counts will be displayed on the screen according to the set values, but in mode 5, follow the steps to set the count, frequency, and pulse value.
2.2-1 Mode 1
Note: The different modes are explained as follows: (two types of injectors with different voltage volts, low/high injector refers to 5V/12V two voltages). Take 5V injector for sample.
Mode 1: Single pulse mode (low/high voltage output), in this mode, when the "OK" button is pressed, the device will emit a pulse with a pulse width of about 255ms.
2.2-2 Mode 2
Mode 2: Short Pulse Mode (Low/High Voltage Output), in this mode, when the "OK" button is pressed, the device will emit 50 pulses with a pulse width of about 7ms.
2.2-3 Mode 3
Mode 3: Long Pulse Mode (Low/High Voltage Output), in this mode, when the "OK" button is pressed, the device will emit 100 pulses with a pulse width of about 3.5ms.
2.2-4 Mode 4
Mode 4: Continuous Pulse Mode (Low / High Voltage Output), in this mode, when the "OK" button is pressed, the device will output continuously at a rate of 50 pulses per 1450ms, with a pulse width of about 7ms per pulse.
2.2-5 Mode 5
Mode 5: Custom Mode (over-high voltage output), in this mode, you can customize the frequency (Hz=50Hz), pulse width (tms=50ms), and number (1 tms=9999 times) by the "Left/Right" button, and press the "OK" button to test.
In any test modes, you can terminate the pulse output at any time by pressing the "OK" button again.

2.3 Washing steps
1. Connect the DC battery clamp to the device, then connect the red clip to the positive pole of the battery, and the black clip to the negative pole of the battery.
2. Start the device and then choose the test mode.
3. Insert the injector into the injector adapter.
4. Insert the injector connector terminal to the injector.
5. Connect the injector adapter to the injector cleaner.
6. Select the test mode, press the test button, and observe the spray status and injection angle of the fuel injector.
7. After the test process is completed, the injector to vehicle.

2.4 Short Circuit Protection
When a short circuit occurs in the device, the screen will displays "SC" and stops executing all commands until the short circuit is lifted. After the screen is disarmed, the device will enter the initialization interface.
2.5 Buzzer
During the test, the buzzer will beep continuously, and at the same time, accompanied by a red LED light indication, after the command is executed, the LED light will go off, and the buzzer will stop chirping.

3. Warranty and Service
Hello! Thank you for purchasing our products, in order to better serve you, please read carefully and fill in correctly and save this warranty card.
Name:
Telephone:
E-mail:
Purchase Date: Product Model:
Order Number:
Shipping Address:
Date: Failure Cause and Solution:
Warranty Statement:
If the product with any quality issues needs to repair, please send this warranty card together with the purchased product back to our company for after-sales service.



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1 安全注意事项和警告
本手册包括使用设备说明和操作方法,为防止人身伤害或因车辆或燃油系统损坏,请务必仔细阅读本用户手册,并在对车辆进行操作时遵守以下安全注意事项:
1 在使用燃油喷嘴测试仪之前,必须将汽车的发动机关闭。
2 请勿在汽车的任何转动(或运动)部件上,也不要接触汽车的任何发热部件。
3 仅在通风的场所使用燃油喷嘴测试仪,请勿吸入汽车排出的废气和燃油挥发产生的蒸气。
4 请勿在汽车的任何转动(或运动)部件上,也不要接触汽车的任何发热部件。
5 佩戴符合ANSI标准的安全护目镜。
6 请勿使汽车电池的负极短路。
7 始终遵守车辆维护手册中的警告、告诫及有关维护说明。
8 请勿接触任何带有危险电压的车辆部件。
9 测试完成后,应妥善将所有打开的车辆连接正确恢复。

1. 产品概述
本仪器可以帮助您诊断燃油喷嘴问题,可以进行测试燃油喷嘴和检测堵塞、堵塞程度和堵塞状态。它有5种脉冲信号输出模式,使用者可以根据需要任选一种,使用DC电源适配器供电,连接工作模式可以在发动机关闭的情况下对燃油喷嘴进行测试,模式锁定功能保证在测试燃油喷嘴时的一致性,本仪器可与任何燃油压力测试仪配合使用。
1.1 面板解析
1 2 3 4 5 6 7 8 9 10 11

1.2 参数信息
Table with 2 columns: 项目, 描述.
项目: 显示屏, 工作温度, 存储温度, 电压支持范围, 电流支持范围, 供电方式.
描述: 1.8英寸液晶屏, 0°C-40°C (32°F-104°F), -20°C-50°C (-4°F-122°F), 8V-18V, 0A-5A, DC 汽车电瓶夹供电.

2. 产品功能
2.1 工作模式
1.关闭汽车的发动机。
2.拆掉汽车燃油系统的喷油嘴插头,然后将仪器的两个脉冲输出端子与汽车的燃油嘴连接好。
3.将DC电源适配器的DC插头连接设备,红色夹子连接蓄电池正极,黑色夹子连接蓄电池负极,完成以上步骤后即可开始测试。
2.2 操作步骤
1.选择电压5V/12V并按"OK"键确认(此时其他信息不显示)。
2.选择模式(1-5)并按"OK"键确认(此时模式数字闪烁,预设数值显示但不闪烁)。
3.按"OK"键确认设置后,按设备不闪烁,再次按"OK"键执行命令(此时预设模式所有信息闪烁)。
4.按"返回"键返回上一步选择位置,长按"返回"键返回初始步骤,即返回选择处。
5.再次指令执行完毕后,再高停留在最后一个选项(闪烁),按"OK"键进行确认,再按"OK"键再次执行。
注意:模式1到模式4选择时,对应的脉宽、频率、发射次数将按预设值显示在屏幕上,模式5是,按照屏幕提示设置发射次数、频率、脉宽。

2.2-1 模式一
注意:不同的测试模式如下(两种不同电压伏数的燃油嘴,低/高电压指6V/12V两种电压),接下来以5V为例。
模式一:单脉冲模式(低/高电压输出),在此模式下,当按下"OK"键时,仪器将发出100个脉冲,脉冲宽度约为3.5ms。
2.2-2 模式二
模式二:短脉冲模式(低/高电压输出),在此模式下,当按下"OK"键时,仪器将发出50个脉冲,脉冲宽度约为7ms。
2.2-3 模式三
注意:长脉冲模式(低/高电压输出),在此模式下,当按下"OK"键时,仪器将发出100个脉冲,脉冲宽度约为3.5ms。
2.2-4 模式四
模式四:连续脉冲模式(低/高电压输出),在此模式下,当按下"OK"键时,仪器将以1450ms/50个脉冲的速率连续输出,每个脉冲的脉冲宽度约为7ms。
2.2-5 模式五
模式五:自定义模式(低/高电压输出),在此模式下可通过"左右"键自定义频率(Hz=50Hz)、脉宽(tms=50ms)、次数(1次=9999次),按"OK"键进行测试。

2.3 清洗步骤
1.将DC电源适配器连接到清洗机的喷嘴上。
2.将燃油嘴插入燃油嘴适配器。
3.将燃油嘴插头端子连接到燃油嘴上。
4.选择测试模式,按下测试按钮,观察燃油嘴的喷雾状态和喷射角度。
注意:测试完成后,也应查看所有打开的车辆连接是否正确恢复。

2.4 短路保护
当设备发生短路时,屏幕显示"SC"并停止执行一切指令,直至短路解除,解除后屏幕进入初始化界面。
2.5 蜂鸣器
测试过程中蜂鸣器会连续鸣响,发声的同时,并伴有红色LED发光指示,指令执行完毕后,LED灯熄灭,蜂鸣器停止鸣响。

3. 保修和服务
您好!感谢您购买我们的产品,为了更好的为您服务,请填写正确填写并保存此保修卡。
姓名:
联系电话:
电子邮箱:
购买日期: 产品型号:
订单编号:
收货地址:
日期: 故障原因及解决方案:
保修声明:
如果产品因质量问题需要维修,请将其连同保修卡一起寄回给我们。

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