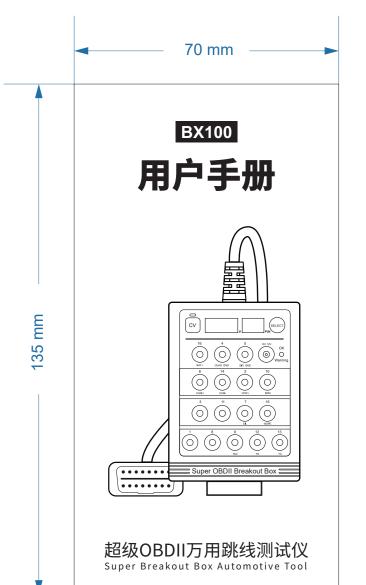
BX00**产品说明书 (中英文)**

尺寸: 70 x 135mm

印刷工艺: 风琴页 折页 黑白印刷





* 在驱动轮前面放置木块,进行测试时一定要有人看

安全注意事项

为防止人身伤害和损坏车辆或测试仪,请首先仔 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: * 在安全的环境下进行汽车测试。

* 穿戴符合安全标准的眼部防护装置。 * 保持衣服、头发、手、工具、测试设备等远离所有移 动的或热的发动机部件。 * 测试时需要在通风良好的工作区域操作车辆, 防止 废气伤害。

* 在点火线圈、分电器盖和火花塞周围操作时,要非 常谨慎。发动机运行时这些部件会产生危险电压。 将排挡杆调到驻车档(自动变速器)或空档(手动变速 器),确保停车制动处于接合状态。

* 在附近放置一个适用于汽油、化学制品、电气火灾

的灭火器。

* 当点火打开或发动机运行时不要连接或断开任何测 *保持仪器干燥,清洁,如果需要擦拭时,使用温和的 清洁剂涂在一块干净的布上,清洁工具的外部。 * 当进行仪器操作时,如果电源脚与地线短路,则可能 引起火花,通电仪器的火花会点燃易燃物。因此不要

警告: BX100只能用于测试12-24V汽车电瓶的电 气系统,超过24V则有可能会损坏仪器。

在易燃物周围使用该仪器。

BX100是一个适用于12V或者24V汽车系统OBDII 万用跳线测试仪,在诊断设备接入汽车诊断接口之前, 可以先用BX100来检测诊断接口各个引脚上的电压 情况,分析通讯线路是否正常,或者分析哪些引脚是 所需要的通讯引脚,以便后续接入其他诊断设备时做 相应设置。 当使用其他诊断设备无法连接到汽车ECU时,可

使用BX100来分析诊断座引脚信号,或者通过BX100 把诊断座的引脚引出,采用其它维修仪器分析诊断座 上的信号,比如:使用万用表或示波器进行分析。 BX100会采集OBDII诊断座上每个引脚的具体电压,

并通过面板上的电压显示窗显示出来, 此功能可替代 部分万用表功能,省去逐个测量诊断座电压的麻烦。 除此之外BX100还设置了各种状态灯、声光报警、 过载保护、**编程恒压**等功能,实现功能分析的同时也 保护自身仪器不受损坏。

1.2 参数信息

1. 产品概述

1.1 产品简介

| 项目 | 描述 |
|------|-------------------------|
| 显示区域 | 数码管 |
| 操作温度 | 0°C~60°C (32°F~140°F) |
| 储存温度 | -5°C~70°C (-40°F~185°F) |
| | 2 |

BX100 is an OBDII universal jumper tester suita-

ble for 12V or 24V automotive systems, before the di-

agnostic equipment is connected to the automotive

diagnostic interface, you can use BX100 to detect the

voltage on each pin of the diagnostic interface, analy-

ze whether the communication line is normal, or ana-

lyze which pins are the required communication pins,

so that you can make corresponding settings when

When it is not possible to connect to the automo-

tive ECU using other diagnostic devices, the BX100 can

ect, or the PIN of the diagnostic holder can be pinned

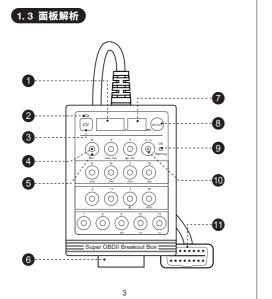
out by the BX100 and the signal on the diagnostic ho-

Ider can be analyzed by other service devcie, such as a

be used to analyze the pin signal of the diagnostic sok-

accessing other diagnostic devices in the future.





① 电压显示:显示所选PIN脚电压,精确到0.1V。 2 编程指示灯: 判断编程状态,绿色正常,红色故障。

3 恒压键:按此按钮进入编程恒压模式。 4 PIN脚: 4mm脚香蕉接头插孔。1-16孔位,分别对

应汽车0BDII接头的16个引脚。 5 状态指示灯: 共16个, PIN4、PIN5 脚为红色, PIN 16脚为红色,其余为白色,当相应的PIN脚上有电 压时指示灯亮起。其中 PIN4、PIN5脚指示灯正常 状态不亮,电源正负极接反时会亮。

6 OBDII**母头:** 连接汽车诊断设备,相当于汽车上的 **7 针脚脚位显示屏:** 显示当前选择的PIN脚。

8 选择/复位键:每按一次此按键,针脚显示屏数值 增加1,数值超过16返回1,(PIN4/5 脚跳过)**长** 按此按键PIN脚选择复位到16脚状态。 9 电源指示灯: 电压正常亮绿色, 过高或过低则亮

① DC孔: 12V或24V电源适配器供电。 ① OBDII公头: 连接汽车 OBDII 插座 (DLC)。

2. 产品功能 2.1 功能介绍

压显示屏显示出来。

线测试,接上跳线盒之后,其它诊断设备也可同时连

2. 通过每个引脚上的LED指示灯快速判断相应的

3. 通过仪器上的针脚显示屏以及选择键, 把选中

4. 具有短路保护功能,同时还有声光报警功能,

5. 通过恒压模式恒定电压输出,解码器编程时电

常时亮绿灯

当电源供电有问题时,仪器会发出声光报警。

压恒定,保证编程的顺利进行。

引脚是否存在直流电压,或者不连续的脉冲信号电压。

的PIN脚序号以及所对应的PIN脚上的电压值通过电

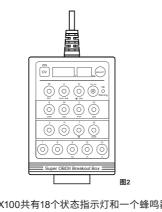
接BX100自带的后端OBDII接头上使用。

如图1所示,如果电源电压正常,地线连接没有故障, 则主机面板上的电源故障双色灯会亮起绿灯。 1. 把汽车OBDII诊断头的16个引脚引出来方便接

> 机面板PIN1脚连接,即可测试OBDII诊断座PIN1脚的 3. 要分析OBDII诊断座的其它引脚,则需要先找到

1. 将OBDII公头与汽车上的OBDII诊断座连接,

要分析的引脚,重复以上操作。



1. BX100共有18个状态指示灯和一个蜂鸣器。紧 挨着PIN脚的16个指示灯为该对应PIN脚状态指示 灯,"OK/Warning" 为电源指示灯,电源电压正常时

亮绿灯,电压异常时亮红灯。将前端的OBDII公头与 汽车上的OBDII诊断座连接,(如图二所示)如果电源 电压正常,地线连接没有故障,则主机面板上的电源

故障双色灯亮绿灯, PIN16脚(电源脚)的状态指示灯 2. 假如想用示波器分析OBDII诊断座 PIN1脚的信 号波形,如图1所示,直接把示波器地线与主机面板 2. 如果PIN16脚 (电源脚) 电压偏低(12V系统低于 上的PIN4脚(地线)连接,示波器探头信号输入端与主 11.5V, 24V系统低于23V)或者电压偏高(12V系统高

> 于15.5V或24V系统高于31.0V), 蜂鸣器将发出缓慢 的哔哔声报警,同时 "OK/Warning" 指示灯亮红色。 3. 如果电源线与地线接反, PIN4脚(电源地线)或

PIN5脚(信号地线)状态指示灯至少有一个会亮红色。 4. 除了电源脚(PIN16)与地线(PIN4/PIN5)上的指

2.4 引脚电压显示功能

1. 将OBDII公头与汽车上的OBDII诊断座连接,如 果电源电压正常, 地线连接没有故障, 则主机面板上 的电源故障双色灯会亮起绿灯, PIN16脚(电源脚)的 状态指示灯点亮。

示灯,其他引脚上的指示灯都会随OBDII诊断座相应

的引脚电压点亮或熄灭,当引脚上的电压大于2V,则

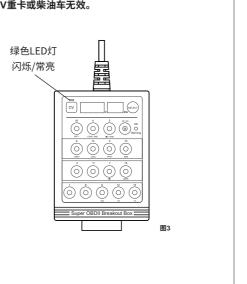
对应的状态指示灯点亮,否则状态指示灯熄灭。

2. 主机通电后, 针脚位默认显示PIN16脚(电源脚) 上的电压,需要读取其他引脚上的电压则需要按选择 键,每按一次,针脚显示窗数值增加1,并且电压显示 窗也显示对应的PIN脚电压值(PIN4和PIN5脚是地 线, 不显示电压)。 针脚显示窗数值显示1-16。

2.5 编程模式

在汽车ECU编程的时候需要一个恒定的电压,才 能保证编程成功,按下 "CV(恒压)" 键,就会产生一个 恒定的13.8V电压输出,保证汽车ECU编程顺利完成。 请注意:编程初始化时绿色指示灯会闪烁,启用

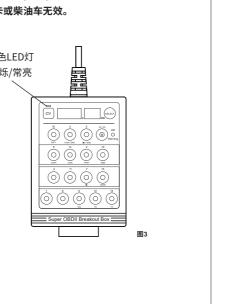
注:"CV(恒压)"键仅对于12V的汽车有效,对于

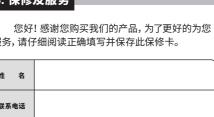


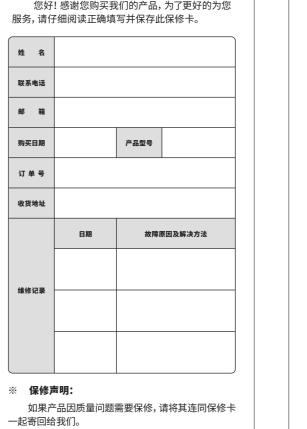
3. 保修及服务

CV 模式时绿色指示灯会常亮。

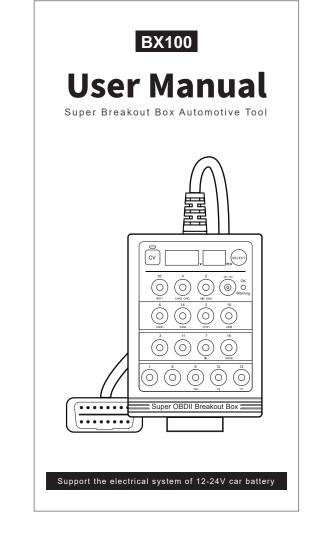
24V重卡或柴油车无效。







版本号: A011208R24



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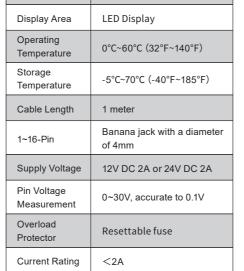
- Test in a safe environment.
- Wear ANSI-compliant goggles. * Keep clothing, hair, hands, tools, test equipment,
- * Place wooden blocks in front of the drive wheels and be sure to have someone guard the vehicle during testing.
- mical, electrical fires.
- when ignition is on or when the engine is running. * Keep the devcie dry and clean, and if you need to wipe it down, apply a mild detergent to a clean cloth to clean the outside of the tool.
- * If the power supply foot is short-circuited to the ground wire, it may cause sparks, so do not use the devcie around flammable materials.

Warning: BX100 can only be used to test the electrical system of 12-24V car batteries, exceeding 24V may damage the devcie.

To prevent personal injury and damage to the vehicle or tester, first read this user manual carefully and observe the following safety precautions when operating the vehicle:

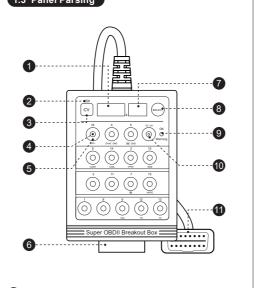
- etc., away from all moving or hot engine parts. * The vehicle needs to be operated in a wellventilated work area to prevent exhaust gas damage.
- * Place a fire extinguisher nearby for gasoline, che-
- The BX100 collects the specific voltage of each Do not connect or disconnect any test equipment pin on the OBDII diagnostic socket and displays it through the voltage display window on the panel, which can replace some multimeter functions and save the trouble of measuring the voltage of the diagnostic socket one by one.
 - In addition, BX100 is also equipped with various status lights, light and sound alarms, overload protection, programming constant voltage and other functions to achieve functional analysis and protect its own devcie from damage.

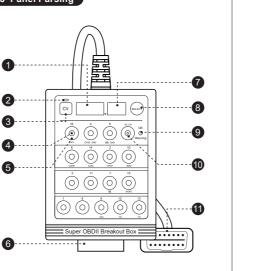
multimeter or oscilloscope.



Project Description

| Display Area | LED Display |
|----------------------------|------------------------------------|
| Operating Temperature | 0°C~60°C (32°F~140°F) |
| Storage Temperature | -5°C~70°C (-40°F~185°F) |
| Cable Length | 1 meter |
| 1~16-Pin | Banana jack with a diameter of 4mm |
| Supply Voltage | 12V DC 2A or 24V DC 2A |
| Pin Voltage Measurement | 0~30V, accurate to 0.1V |
| Overload Protector | Resettable fuse |
| Current Rating | <2A |





1 Voltage Display: Displays the selected PIN voltage, accurate to 0.1V.

connector should be used.

ming status, green normal, red fault. 3 Constant Voltage key: Press this button to enable the programmed constant voltage mode. 4 PIN Feet: 4mm pin banana socker16 holes, re-

DC Adapter: Powered by a 12V/2A power DC 2 Programming Indicator: Display the program-

spectively the 16 pins of the automotive OBDII

8 Select/Reset Key: Each time when you press

this button, the value of the pin display increases by 1, after the value exceeds 16, then returns #1 PIN, (4PIN/5PIN Skip) Press and hold this button to reset to 16 PIN. 9 Power Indicator: The voltage LED is green, in normal condition, if the voltage is too high or too low, it will show red LED.

PIN4, PIN5 LED are red, PIN16 LED is red, the

rest pins are white LED. The indicator lights up

when there is voltage on the corresponding pins.

The PIN4 and PIN5 indicators do not light up in the

normal state, They will light up only when the pos-

6 OBDII Female: It is used to connected to the car's

diagnostic equipment, which is equivalent to the

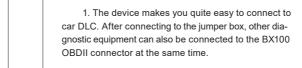
7 Pin Position Display: Displays the currently se-

itive and negative are reversed.

diagnostic seat on the car.

lected pin.

11 OBDII Male: Conned to car OBDII socket (DLC) .



2. The LED indicator on each pins can quickly determine whether the corresponding pin with a DC voltage or a discontinuous pulse signal voltage.

3. Through the pin number display and select b-

utton on the device, the selected PIN number and the voltage value will be displayed through the LED display. 4. The device with short circuit protection, light and sound alarm fuction, when there is a problem with

and visual alarm.

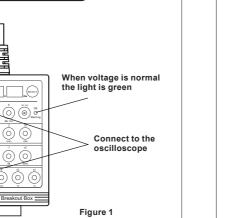
5. Through the constant voltage mode, The device will ensure the stabity of voltage when user performs the car programming fuction.

the power supply, the device will send out an audible 1. Connect the OBDII male connector with the OB-DII diagnostic socket on the car, as shown in Figure 1, if the power supply voltage is in normal condition and the ground wire connection is not faulty, the power light

> 2. If you want to use an oscilloscope to analyze the signal waveform of PIN 1, as shown in Figure 1, directly connect the ground wire of the oscilloscope with the PI-N4 (ground wire) on the host panel, and connect the signal input of the oscilloscope probe with the PIN1 of the host panel to test the signal of the PIN1.

3. To analyze the other pins of the OBDII diagnostic socket, you need to find the pins to be analyzed and repeat the above operations.

will light up with green LED.



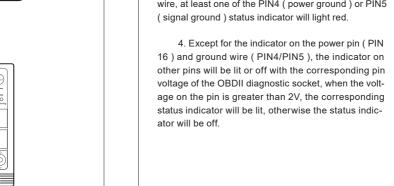
and one buzzer. The 16 indicators next to the PIN are the status indicators of the corresponding pin, "OK/Warning" is the power indicator, which will turn green when the power supply voltage is normal condition while red LED means voltage is abnormal. Connect the OBDII male connector in the front of the OBDII diagnostic socket to the car, (as shown in Figure 2), if the power supply voltage is normal and the ground connection is not faulty, the power LED on the host panel

will be green, and the status indicator of PIN16 (power

1. The BX100 has a total of 18 status indicators

pin) will be lit. 2. If the voltage of the PIN 16 (power pin) lower than (11.5V for 12V system, 23V for 24V system) or higher than (15.5V for 12V system or 31.0V for 24V system), the buzzer will sound a slow beep alarm and the "OK/ Warning" indicator will light up red.

wire, at least one of the PIN4 (power ground) or PIN5 (signal ground) status indicator will light red.

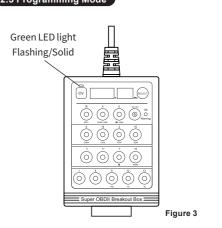


2.4 Pin Voltage Display Function

1. Connect the OBDII male to the OBDII diagnostic socket on the car, if the power supply voltage is normal and the ground wire connection is not faulty, the power LED on the host panel will light up green, and the status indicator of PIN16 pin (power pin) will

play the voltage on pin 16 (power pin) by default, if you need to read the voltage on other pins, you canpress the select button. The voltage value of corresponding PIN will displayvery time you press it (PIN4 and PIN5 pins are ground wires, the voltage will not display). The pins display window values 1-16.

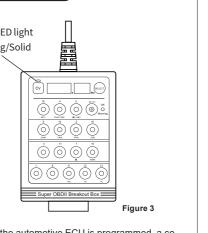
2. After the device is powered on, the pin will dis



When the automotive ECU is programmed, a constant voltage is required to ensure the successful programming. Press the "CV (constant voltage)" button to generate a constant 13.8V voltage output to ensure the smooth completion of the automotive ECU progra-

Note: The "CV (Constant Voltage)" button is only valid for 12V cars, not for 24V heavy trucks or diesel vehicles.

when CV mode enabled.



Date Failure Causes and Solutions Note: The green indicator will flash when the programming is initializing, the green indicator will be solid

service.

3. Warranty and Service

in correctly and save this warranty card.

Hello! Thank you for purchasing our products, in

order to better serve you, please read carefully and fill

*** Warranty Statement:** If the product with any quality isuess needs to repair, please send this warranty card together with the purchased product back to our company for aftersales

Version number: A011208R24