



[Home](#) » [AUTOOL](#) » **AUTOOL SVB303 Four Way Articulating Borescope User Manual** 

Contents [[hide](#)]

[1 AUTOOL SVB303 Four Way Articulating Borescope](#)

[2 Product Information](#)

[3 SAFETY RULES](#)

[4 PRODUCT INTRODUCTION](#)

[5 Product parameters](#)

[6 PRODUCT STRUCTURE](#)

[7 OPERATING INSTRUCTIONS](#)

[8 Trouble-shooting and help](#)

[9 MAINTENANCE SERVICE](#)

[10 WARRANTY](#)

[11 EU DECLARATION OF CONFORMITY](#)

[12 FAQ](#)

[13 Documents / Resources](#)

[13.1 References](#)

[14 Related Posts](#)

AUTOOL®

AUTOOL SVB303 Four Way Articulating Borescope



Product Information

Specifications

- Brand: AUTOOL
- Model: SVB303
- Type: Four-way Articulating Borescope
- Website: www.autooltech.com

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SAFETY RULES

General safety rules

- Always keep this user manual with the machine.
- Before using this product, read all the operational instructions in this manual. Failure to follow them may result in electric shock and irritation to skin and eyes.
- Each user is responsible for installing and using the equipment according to this user manual. The supplier is not responsible for damage caused by improper use and

operation.

- This equipment must only be operated by trained and qualified personnel. Do not operate it under the influence of drugs, alcohol, or medication.
- This machine is developed for specific applications. The supplier points out that any modification and/or use for any unintended purposes is strictly prohibited.
- The supplier assumes no express or implied warranties or liabilities for personal injury or property damage caused by improper use, misuse, or failure to follow safety instructions.
- This equipment is intended for use by professionals only. Improper use by non-professionals may result in injury or damage to the tools or workpieces.
- Keep out of reach of children.
- When operating, ensure nearby personnel or animals maintain a safe distance. Avoid working in rain, water, or damp environments. Keep the work area well-ventilated, dry, clean, and bright.

Handling

Used/damaged equipment must not be disposed of in household waste but must be disposed of in an environmentally friendly manner. Use designated electrical equipment collection points.

Electrical safety rules

Do not twist or severely bend the power cord, as this may damage the internal wiring. If the power cord shows signs of damage, do not use the articulating video borescope. Damaged cables pose a risk of electric shock. Keep the power cord away from heat sources, oil, sharp edges, and moving parts. Damaged power cords must be replaced by the manufacturer, its technicians, or personnel with similar qualifications to prevent hazardous situations or injuries.

Equipment safety rules

- Never leave the equipment unattended when it is powered on. Always disconnect the power cable and ensure the device is turned off when it is not being used for its intended purpose!
- Do not use the articulating video borescope in explosive environments, such as areas

with flammable liquids, gases, or dust.

- Do not attempt to repair the equipment yourself.
- Before connecting the device to power, check that the battery voltage matches the value specified on the nameplate. Mismatched voltage can cause serious hazards and damage the device.
- It is essential to protect the equipment from rainwater, moisture, mechanical damage, overload, and rough handling.

Application

- Before use, check the power cord, connection cables for any damage. If any damage is found, do not operate the device.
- Use the equipment only in compliance with all safety instructions, technical documents, and vehicle manufacturer specifications.
- If replacement accessories are needed, use only brand new and unopened products.

Personnel protection safety rules

- Do not use this product when fatigued or while under the influence of medication.
- Protective gear may be worn when using the borescope.
- Improper use of the product may cause battery leakage. Avoid contact with the battery fluid. If contact occurs, rinse with water. Seek medical attention if the fluid comes into contact with the eyes.
- Always ensure you have a stable footing to safely control equipment in case of emergencies.

CAUTIONS

Warning

Before using the product, please pay attention to the following operations:

- Prior to using this product, carefully read this manual and follow the instructions to avoid improper usage that may result in loss or injury.
- Do not operate the joystick when the flexible hose is curled, as it may lead to the breakage or deformation of the steering traction line.

- The bending direction of the probe can only be controlled by the joystick. Do not force the camera probe, as it may cause the steel wire to break or deform.
- Avoid keeping the joystick at the maximum bending angle for an extended period, as it may put the equipment under high load and affect its lifespan.
- Do not use this device to observe the interior of the human body or animals, as consequences will be at your own risk.
- Prohibit usage or storage in explosive, strong electromagnetic, flammable, or corrosive environments, as it may result in fire, explosion, or equipment damage.
- Avoid operating on objects under electrified conditions to prevent electric shock.
- Do not touch the end of the camera probe directly, especially after using the borescope in a high-temperature environment, as it may cause burns.
- Avoid direct close-up viewing of the strong light emitted from the end of the borescope probe to prevent visual impairment.
- After using the device, allow the joystick to return to its normal state. Do not forcefully pull it out from the tested object to prevent probe jamming and damage to the articulating function.
- Do not connect this product to devices from other manufacturers (host, flexible hose, etc.), as consequences will be at your own risk.
- Do not expose the flexible hose to a temperature exceeding 70°C.

PRODUCT INTRODUCTION

Overview

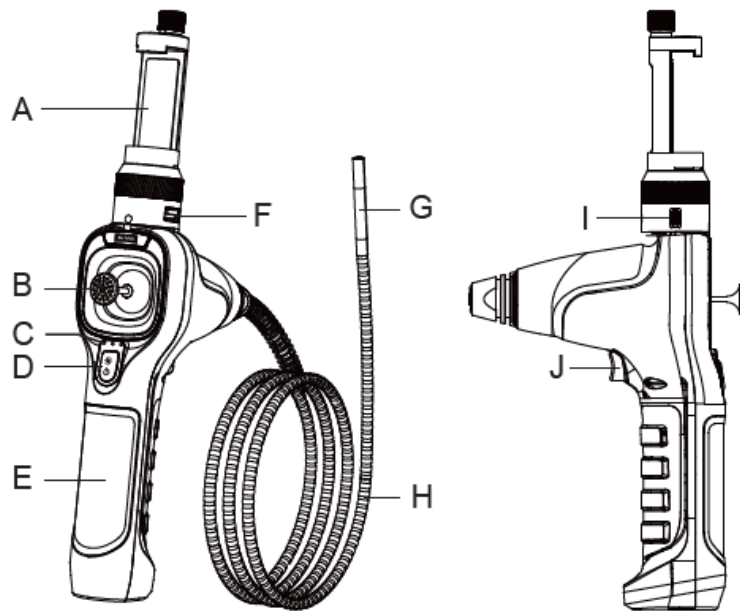
- This product is specifically designed for detecting hard-to-reach areas such as car evaporators, combustion chambers, and three-way catalytic converters. It features a unique temperature protection function and comes equipped with a 360° articulating function, allowing users to easily maneuver the camera probe into tight spaces. Real-time footage can be transmitted to external devices via a data cable. With advanced expandable accessories and real-time temperature display, it meets the diverse detection needs of users.
- Any other use is considered beyond the intended purpose of the equipment and is prohibited.

Product parameters

Camera Diameter	6.2mm
Field of View (FOV)	90°
Camera Light Source	6 High-brightness LED lights
Sensor	1/9" CMOS
Pixels	100W
Flexible Hose Length	1m
Flexible Hose Material	Elastic metal hose
Depth of Field (DOF)	20~100mm
Manual Dimming	Supported
Battery	3.7V/2600mAh lithium battery
Power Input	DC 5V
Usage Duration	Approximately 120 minutes
Operating Environment	-10°C~50°C
Protection Level	Not waterproof for the main unit

PRODUCT STRUCTURE

Structure diagram



A	Phone Holder	B	Joystick
C	Power Indicator Light	D	Power On/Off/ LED Light Adjustment
E	Grip Area	F	USB Interface
G	Million High-Definition Lens	H	Flexible Hose
I	Type-C Charging Port	J	Photo/Video Button

OPERATING INSTRUCTIONS

Mobile app installation

Scan the QR code to download and install the app.





Operation guide


- **Install Phone**

Adjust the knob of the phone holder and place the phone on the holder (supports 3.5-inch to 6.3-inch screens). Connect the phone interface to the grib's USB interface using a connect cable.




- **Power On/Off**

Press and hold the  button on the grib for 2 seconds to turn on the device. The working indicator light will be on. Open the application on your phone to display the image. Press and hold the  button for 2 seconds to turn off the device.

- **LED Light Adjustment**

After powering on, the LED light is at its brightest by default. Press the  button to adjust the brightness. Brightness has 3 levels, and the 4th press turns off the LED light.



- **Capture/Record**

Press the  button to take a photo. Long-press the  button for 2 seconds to start recording. Long-press the  button for another 2 seconds to stop recording.

- **Charging**

Use a charging cable to connect to a 5V adapter or a mobile power source and plug it into the device's Type-C interface for charging. The charging voltage is DC 5V. Using a higher voltage may damage the device. Note: This device does not support fast charging.

- **PDF Generation**

In the  application software, navigate to  settings. Access the PDF generation settings page to configure the footer, header, and logo settings. Then input information of PDF creation. Click to generate the fuel system inspection form in PDF format.

TIPS & HELP

Trouble-shooting and help

1. **Issue: No power on**

- **Possible causes:**

Low battery, incorrect battery installation.

Steps:

Charge the battery or replace it. Check for dirt or deformation in the battery, battery compartment, and contacts. Reinstall the battery.

2. Issue: Automatic shutdown

- **Possible cause:**

Low battery level.

Steps:

Charge the battery or replace it.

3. Issue: Screen freeze after powering on or black screen

- **Possible causes 1:**

System startup failure, dirty connect cable interface, damaged connect cable.

Steps:

Restart the app and device. Clean the connect cable interface and reconnect the cable. Replace the connect cable.

- **Possible cause 2:**

App lacks permissions, app incompatibility.

Steps:

Grant necessary permissions in phone permission settings. Reinstall a new app. Try a different phone to confirm device integrity.

4. Issue: Image cannot be recorded or retrieved

- **Possible cause:**

App lacks permissions.

Steps:

Grant necessary permissions in phone permission settings. Reinstall a new app. Check for "Finder Camera Data" in phone storage.

5. Issue: Charging failure

- **Possible causes:**

Dirty charging interface, damaged charging cable.

Steps:

Clean the charging interface and reconnect the cable. Replace the charging cable or charger.

6. Issue: Blurry image

- **Possible causes:**

Dirty probe, out of probe depth of field, lens damage due to high temperature.

Steps:

Clean the probe with a clean cloth. Place the probe within 20-100mm from the target. Avoid exposing the probe to high temperatures (below 70°C).

7. Issue: Limited articulating radius of the probe**• Possible cause:**

Twisted or deformed flexible hose.

Steps:

Ensure the flexible hose is laid flat before use.

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

Maintenance

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in

hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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Facebook	https://www.facebook.com/autool.vip
YouTube	https://www.youtube.com/c/autooltech

EU DECLARATION OF CONFORMITY


We as the manufacturer declare that the designated product: Articulating Borescope (SVB303)

Complies with the requirements of the:

- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU + 2015/863 + 2017/2102

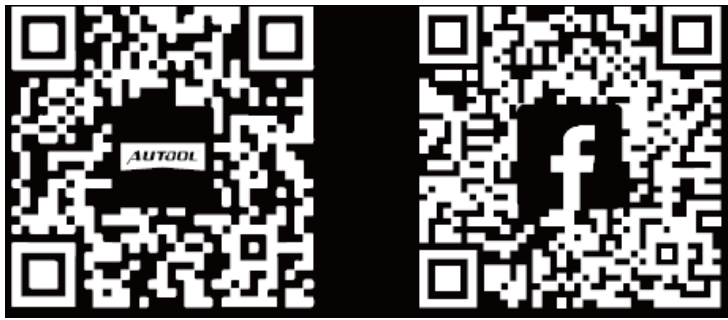
Applied Standards:

- EN 55032:2015+A1:2020+A11:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019 + A1:2021, EN 61000-3-3:2013 + A1:2019 + A2:2021 IEC 62321-3-1-2013, IEC 62321-5-2013, IEC 62321-5-2013, IEC 62321-4-2013+A1:2017, IEC 62321-7-2:2017, IEC 62321-7-1:2015, IEC 62321-6:2015, IEC 62321-8:2017
- **Certificate No.:** HS202403075346E, HS202403075341E
- **Test Report No.:** HS202403075346-1ER, HS202403075341-1ER

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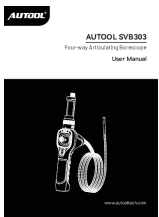
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- Ausführungsnorm: JB/T 11130-2011



FAQ

- **Q: Can I use the borescope without the mobile app?**
 - A: While the mobile app enhances functionality, basic operation of the borescope is possible without it. However, some features may be limited.
- **Q: How often should I perform maintenance on the borescope?**
 - A: It is recommended to perform routine maintenance after every use and thorough cleaning periodically to ensure longevity and optimal performance.

Documents / Resources

	AUTOOL SVB303 Four Way Articulating Borescope [pdf] User Manual SVB305, SVB303 Four Way Articulating Borescope, SVB303, Four Way A rticulating Borescope, Articulating Borescope, Borescope
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References

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