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› [KAIWEETS](#) /

› [KAIWEETS Digital Multimeter HT118A and Brake Fluid Tester KVBF01 Instruction Manual](#)

KAIWEETS HT118A, KVBF01

KAIWEETS Digital Multimeter HT118A and Brake Fluid Tester KVBF01 Instruction Manual

Model: HT118A (Multimeter), KVBF01 (Brake Fluid Tester)

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your KAIWEETS Digital Multimeter HT118A and KAIWEETS Brake Fluid Tester KVBF01. Please read this manual thoroughly before operation and retain it for future reference.



Image 1.1: KAIWEETS Digital Multimeter HT118A and Brake Fluid Tester KVBF01. The image displays both devices: a black digital multimeter with an orange dial and a red brake fluid tester pen.

2. SAFETY INFORMATION

Always observe safety precautions when using electrical testing equipment and working with automotive systems. Failure to do so may result in injury or damage to the devices or vehicle.

2.1 General Safety Guidelines

- Read all instructions before use.
- Do not operate the devices if they appear damaged or are not functioning correctly.
- Keep hands and clothing away from moving parts and hot surfaces.
- Use personal protective equipment (PPE) such as safety glasses.
- Do not exceed the maximum input values specified for each function.

2.2 Multimeter Specific Safety

- Ensure the correct function and range are selected before making measurements.
- Never measure voltage on a circuit with the function switch set to current, resistance, or diode mode.
- Be cautious when working with high voltages.
- Replace batteries when the low battery indicator appears to ensure accurate readings.

2.3 Brake Fluid Tester Specific Safety

- Avoid contact of the probe with skin or eyes.
- Clean the probe thoroughly after each use to prevent contamination.
- Do not use the tester on fluids other than brake fluid.

3. PRODUCT OVERVIEW

3.1 KAIWEETS Digital Multimeter HT118A

The HT118A is a True RMS digital multimeter designed for accurate electrical measurements. It features a 6000-count display and various functions including AC/DC voltage, current, resistance, capacitance, frequency, temperature, diode, continuity, NCV (Non-Contact Voltage), and Live wire detection.



Image 3.1: Overview of KAIWEETS HT118A Multimeter features. This image highlights various functions like AC/DC voltage,

current, frequency, resistance, temperature, duty cycle, capacitance, diodes, continuity, data retention, non-contact voltage, and live wire detection. It also shows the battery compartment and probe storage.

Key Components:

- **Display:** 2.9" HTN Backlit Screen with dual readings and bargraph.
- **Function Dial:** Rotary switch for selecting measurement modes.
- **Input Jacks:** Terminals for test leads (VΩmA, 10A, COM).
- **Buttons:** FUNC, HOLD, MAX/MIN, Backlight/Flashlight.
- **LED Lightning Jacks:** Flashing jacks to guide probe placement.



Image 3.2: KAIWEETS HT118A Multimeter with LED Lightning Jacks. The image shows the multimeter's input jacks illuminating, indicating where to connect the test leads for the selected function.

2.9"HTN Backlit Screen



Dual Readings Orange Backlight

When Volt > 80V
Current > 10A
Bargraph

Auto-ranging & Accurate Measurement

It's extremely easy to use, offering AC/DC reading without needing to switch between nodes.



Image 3.3: KAIWEETS HT118A Multimeter 2.9 inch HTN Backlit Screen. The display shows dual readings and an orange backlight, indicating auto-ranging and accurate measurement capabilities.

3.2 KAIWEETS Brake Fluid Tester KVBF01

The KVBF01 is a pen-style brake fluid tester designed to quickly and accurately measure the water content in DOT3, DOT4, and DOT5.1 brake fluids. It features a corrosion-resistant probe, data hold function, and a three-color backlight with a buzzer alarm for clear indications.



VS

Others



Image 3.4: KAIWEETS KVBF01 Brake Fluid Tester with Corrosion-Resistant Probe. The image highlights the durable, corrosion-resistant probe of the brake fluid tester, comparing it to a less durable alternative.

Key Components:

- **Probe:** Corrosion-resistant metal probe for fluid immersion.
- **Display:** Digital display with three-color backlight.
- **Buttons:** Power button, 'S' (Select/Hold) button.
- **Buzzer:** Audible alarm for high water content.

4. SETUP

4.1 Battery Installation (Both Devices)

Both the Multimeter HT118A and Brake Fluid Tester KVBF01 require 2x1.5V AAA batteries.

1. Locate the battery compartment cover on the back of the device.
2. Use a screwdriver (if necessary) to open the cover.
3. Insert 2 AAA batteries, observing the correct polarity (+/-).
4. Replace the battery compartment cover and secure it.

Note: Ensure batteries are installed correctly to prevent damage to the device.

5. OPERATING INSTRUCTIONS

5.1 KAIWEETS Digital Multimeter HT118A Operation

The HT118A features auto-ranging for most functions, simplifying operation. Connect the test leads to the appropriate input jacks (COM and VΩmA for most measurements, 10A for high current).

Measurement Functions:

- **AC/DC Voltage (V):** Turn the dial to V~ (AC) or V- (DC). The multimeter will auto-range.
- **AC/DC Current (A, mA):** Turn the dial to A~ (AC) or A- (DC) for high current, or mA~ (AC) or mA- (DC) for low current. Ensure test leads are connected to the correct current input jack (10A or mA).
- **Resistance (Ω):** Turn the dial to Ω.
- **Continuity (•)):** Turn the dial to •)). A buzzer will sound for low resistance.
- **Diode (→|):** Turn the dial to →|.
- **Capacitance (>):** Turn the dial to +.
- **Frequency (Hz):** Can be measured in conjunction with voltage or current functions, or as a standalone function.
- **Temperature (°C/°F):** Turn the dial to °C/°F. Connect the K-type thermocouple to the VΩmA and COM jacks.

Temperature Measurement

ACCURACY RANGE

5.0% / 6°F	-4°F ~ 32°F
1.0 % / 4°F	32°F ~ 752°F
2.0 %	752°F~ 1832°F



1 K-Type Thermocouple included

Image 5.1: KAIWEETS HT118A Multimeter performing temperature measurement. The image shows the multimeter connected to a K-type thermocouple, measuring the temperature of water in a glass.

- **NCV (Non-Contact Voltage):** Turn the dial to NCV. Bring the top of the multimeter near an AC voltage source to detect its presence without direct contact.
- **Live Wire Detection:** Turn the dial to Live. Insert the red test lead into the VΩmA jack and touch the probe to the wire. The display will indicate if it's a live wire.

Button Functions:

- **FUNC:** Toggles between different sub-functions within a dial setting (e.g., AC/DC, Diode/Continuity).
- **HOLD:** Freezes the current reading on the display. Press again to release.
- **MAX/MIN:** Displays the maximum or minimum reading recorded during a measurement session.
- **Backlight/Flashlight:** Activates the display backlight and/or the built-in flashlight.

5.2 KAIWEETS Brake Fluid Tester KVBF01 Operation

The KVBF01 provides quick and accurate assessment of brake fluid quality by measuring water content.

EXTENSIVE TESTING COVERAGE

Suitable for DOT 3, DOT 4, and DOT 5.1



Image 5.2: KAIWEETS KVBF01 Brake Fluid Tester showing extensive testing coverage. The image illustrates the tester's compatibility with DOT3, DOT4, and DOT5.1 brake fluids, with examples of fluid containers.

1. **Power On:** Press the power button to turn on the device. The display will light up.
2. **Select Fluid Type:** Press the 'S' button to cycle through DOT3, DOT4, and DOT5.1 fluid types until the desired type is displayed.
3. **Immerse Probe:** Carefully dip the corrosion-resistant probe into the brake fluid reservoir. Ensure the probe tips are fully submerged.
4. **Read Measurement:** The device will display the water content percentage.



Image 5.3: KAIWEETS KVBF01 Brake Fluid Tester with Data Hold function. The image shows the tester's display with a reading of 1.8% and an 'H' icon, indicating that the data hold function is active.

5. Interpret Results (Three-Color Backlight):

- **Green (0%-2%):** Brake fluid is in good condition.
- **Yellow (2%-3%):** Brake fluid is acceptable, but consider changing soon.
- **Red (>3%):** Brake fluid needs immediate replacement. A buzzer will sound.

3 COLORS BACKLIGHT

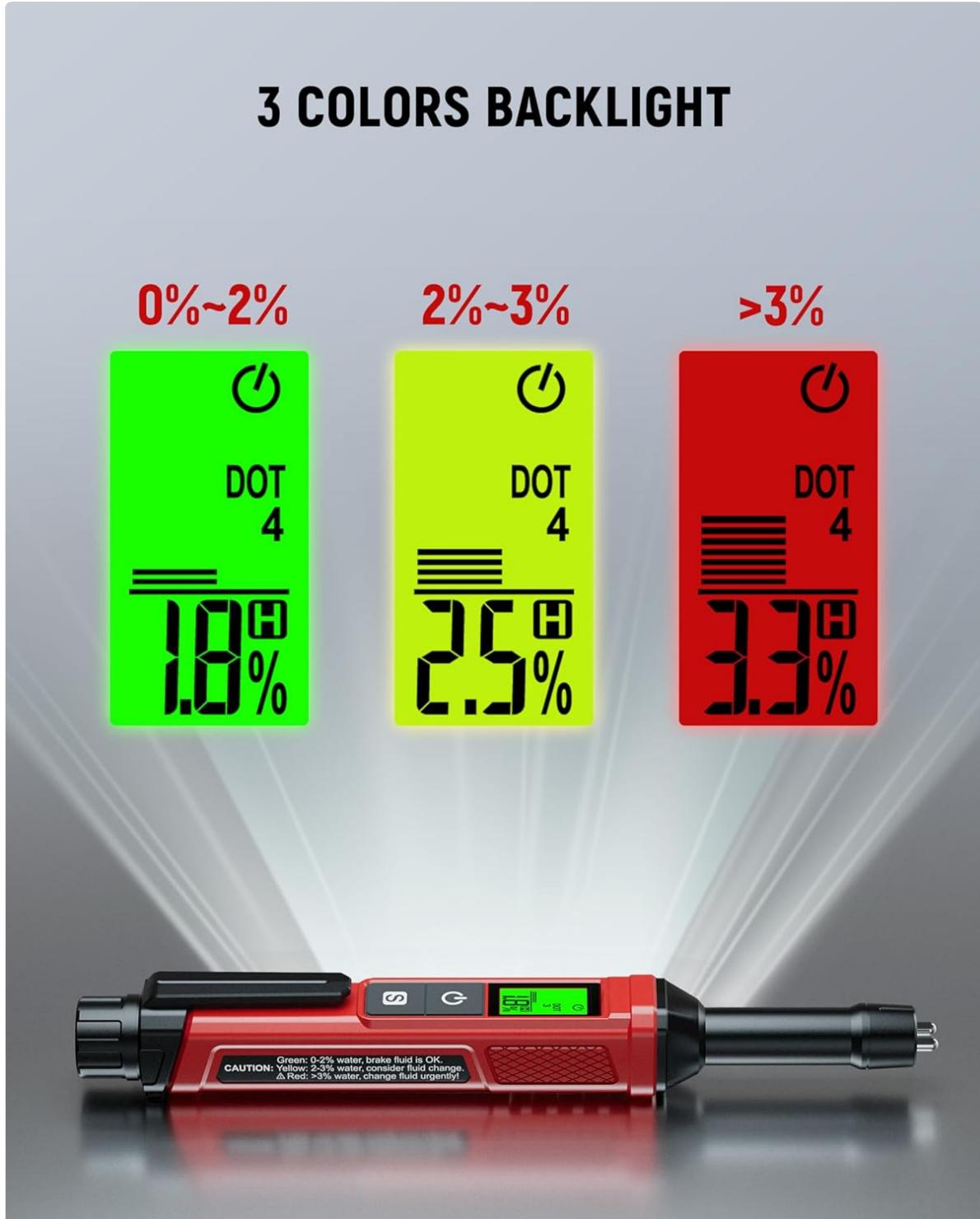


Image 5.4: KAIWEETS KVBF01 Brake Fluid Tester displaying 3 colors backlight. The image shows the tester's display changing color (green, yellow, red) based on the water content percentage, indicating the condition of the brake fluid.

6. **Data Hold:** Press and hold the 'S' button to activate the data hold function, freezing the current reading. Press again to release.
7. **Power Off:** Press and hold the power button to turn off the device. The device will also auto-power off after a period of inactivity.

6. MAINTENANCE

6.1 Cleaning

- Wipe the exterior of both devices with a damp cloth. Do not use abrasive cleaners or solvents.
- For the brake fluid tester, thoroughly clean the probe with a dry cloth after each use to remove any brake

fluid residue.

6.2 Storage

- Store the devices in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries to prevent leakage.

7. TROUBLESHOOTING

7.1 Multimeter Troubleshooting

Problem	Possible Cause	Solution
No display/Device won't turn on	Dead or incorrectly installed batteries.	Check battery polarity, replace batteries.
Inaccurate readings	Low battery, incorrect function/range, damaged test leads.	Replace batteries, verify function/range, check test leads for damage.
"OL" or "OVER" on display	Measurement exceeds selected range or device's maximum capacity.	Select a higher range (if not auto-ranging) or ensure measurement is within specifications.

7.2 Brake Fluid Tester Troubleshooting

Problem	Possible Cause	Solution
No display/Device won't turn on	Dead or incorrectly installed batteries.	Check battery polarity, replace batteries.
Inconsistent readings	Probe not fully submerged, probe dirty, incorrect fluid type selected.	Ensure probe is fully submerged, clean probe thoroughly, verify selected fluid type.
Buzzer sounds immediately	High water content in brake fluid.	Brake fluid requires immediate replacement.

8. SPECIFICATIONS

8.1 KAIWEETS Digital Multimeter HT118A

- **Display:** 6000 Counts, 2.9" HTN Backlit Screen
- **True RMS:** Yes
- **Auto-ranging:** Yes
- **Functions:** AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity, NCV, Live
- **Safety Rating:** 1000V CAT III, 600V CAT IV
- **Power:** 2x1.5V AAA Batteries
- **Operating Temperature:** 0-40°C (32-104°F)

8.2 KAIWEETS Brake Fluid Tester KVBF01

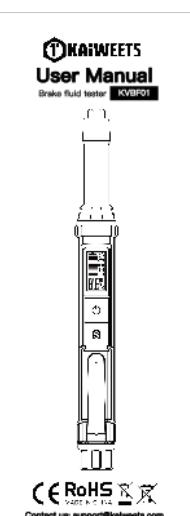
- **Measurement Range:** 0% - 4% water content
- **Accuracy:** ± 0.3%
- **Fluid Types:** DOT3, DOT4, DOT5.1
- **Probe:** Corrosion-resistant
- **Features:** Data Hold, Three-color Backlight, Buzzer Alarm
- **Power:** 2x1.5V AAA Batteries
- **Operating Temperature:** 0-40°C (32-104°F)

9. WARRANTY AND SUPPORT

KAIWEETS provides a 30-day free return policy and a 3-year warranty for this product. Lifetime technical support is also available. For any questions or assistance, please contact KAIWEETS customer service. For more information or to contact support, please visit the official KAIWEETS store: [KAIWEETS Store](#)

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Related Documents - HT118A, KVBF01

	<p>KAIWEETS HT118A Digital Multimeter User Manual</p> <p>Comprehensive user manual for the KAIWEETS HT118A Digital Multimeter, covering safety instructions, product description, multimeter features, measurement functions, and specifications.</p>
	<p>Kaiweets KVBF01 Brake Fluid Tester User Manual</p> <p>User manual for the Kaiweets KVBF01 Brake Fluid Tester, detailing its features, instructions for use, product parameters, and warranty information.</p>

 <p>TRUE RMS 6000 COUNTS DIGITAL MULTIMETER HT112B</p> <p>KAIWEETS MANUAL HT112B TRUE RMS 6000 COUNTS DIGITAL MULTIMETER HT112B</p> <p>DIGITAL MULTIMETER TRUE RMS 6000 COUNTS AC/DC VOLTAGE AC/DC CURRENT RESISTANCE CAPACITANCE DIODE TEST TEMPERATURE</p> <p>CE 6000 Counts A 1000 Counts Ω 1000 Counts C 1000 Counts D 1000 Counts T 1000 Counts</p> <p>Contact us: support@kaiweets.com</p>	<p>KAIWEETS HT112B Digital Multimeter User Manual</p> <p>User manual for the KAIWEETS HT112B True RMS 6000 Counts Digital Multimeter, detailing safety instructions, operation procedures, measurement functions, specifications, and warranty information.</p>
<p>Operation Manual</p> <p>KAIWEETS</p> <p>ST120 Smart Pen-type Multimeter</p> <p>Please read this manual thoroughly before use and keep it for later reference.</p> <p>After-sale: support@kaiweets.com</p> <p>UK REP UK Authorised Representative Company name: YH Consulting Limited Address: 200 YH Consulting Limited Office 107, Chelmsford Business Park, Chelmsford, Essex, CM2 4XX Tel: +44 1245 444 444 Email: HT120@yhcgroup.com</p> <p>Safety Statement ⚠ Warning: Operation that may cause danger to users.</p> <p>Safety Instructions The meter conforms to IEC61010-1 CAT.III 600V overvoltage safety standard and pollution level 2.</p> <p>1</p>	<p>KAIWEETS ST120 Smart Pen-type Multimeter Operation Manual</p> <p>This manual provides detailed instructions for operating the KAIWEETS ST120 Smart Pen-type Multimeter, including safety precautions, product overview, measurement functions, technical specifications, and maintenance procedures.</p>
 <p>KAIWEETS True-RMS Multimeter Model: HT118A</p>	<p>KAIWEETS HT118A True-RMS Digital Multimeter: User Manual and Specifications</p> <p>Detailed user manual for the KAIWEETS HT118A True-RMS Digital Multimeter. Includes safety instructions, multimeter features, measurement operations, general and accuracy specifications, and maintenance guidelines.</p>
	<p>Kaiweets HT118A Digital Multimeter User Manual</p> <p>Comprehensive user manual for the Kaiweets HT118A Digital Multimeter, covering features, operation, and safety precautions.</p>

Documents - KAIWEETS – HT118A, KVBF01

KAIWEETS
User Manual
Brake fluid tester KVBF01



[Kaiweets KVBF01 Brake Fluid Tester User Manual](#)

User manual for the Kaiweets KVBF01 Brake Fluid Tester, detailing its features, instructions for use, product parameters, and warranty information.

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[Kaiweets HT118A Digital Multimeter User Manual](#)

Comprehensive user manual for the Kaiweets HT118A digital multimeter, covering its features, functions, and safe operation for various electrical measurements.

lang: **score:24** filesize: 54.91 M page_count: 1 document date: 2020-01-13

