

UNI-T®

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Service Manual

UT8806E Desktop Digital Multimeter

Preface

Thank you for choosing this brand new UNI-T instrument. In order to use this instrument safely and correctly, please read this manual thoroughly, especially the Safety Requirements part.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

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Warranty Service

The instrument has a warranty period of one year from the date of purchase. If the instrument is damaged due to improper operation by the user during the warranty period, the maintenance fee and the costs caused by the maintenance shall be borne by the user, and the instrument shall be maintained by the company for life.

If the original purchaser sells or transfers the product to a third party within one year from the date of purchase of the product, the warranty period of one year shall be from the date of the original purchase from UNI-T or an authorized UNI-T distributor. Power cords, accessories and fuses, etc. are not included in this warranty.

If the product is proved to be defective within the warranty period, UNI-T reserves the rights to either repair

the defective product without charging of parts and labor, or exchange the defected product to a working equivalent product (determined by UNI-T). Replacement parts, modules and products may be brand new, or perform at the same specifications as brand new products. All original parts, modules, or products which were defective become the property of UNI-T.

The "customer" refers to the individual or entity that is declared in the guarantee. In order to obtain the warranty service, "customer" must inform the defects within the applicable warranty period to UNI-T, and perform appropriate arrangements for the warranty service.

The customer shall be responsible for packing and shipping the defective products to the individual or entity that is declared in the guarantee. In order to obtain the warranty service, customer must inform the defects within the applicable warranty period to UNI-T, and perform appropriate arrangements for the warranty service. The customer shall be responsible for packing and shipping the defective products to the designated maintenance center of UNI-T, pay the shipping cost, and provide a copy of the purchase receipt of the original purchaser. If the product is shipped domestically to the purchase receipt of the original purchaser. If the product is shipped to the location of the UNI-T service center, UNI-T shall pay the return shipping fee. If the product is sent to any other location, the customer shall be responsible for all shipping, duties, taxes, and any other expenses.

This warranty shall not apply to any defects or damages caused by accidental, machine parts' wear and tear, improper use, and improper or lack of maintenance. UNI-T under the provisions of this warranty has no obligation to provide the following services:

- a) Any repair damage caused by the installation, repair, or maintenance of the product by non UNI-T service representatives.
- b) Any repair damage caused by improper use or connection to an incompatible device.
- c) Any damage or malfunction caused by the use of a power source which does not conform to the requirements of this manual.
- d) Any maintenance on altered or integrated products (if such alteration or integration leads to an increase in time or difficulty of product maintenance).

This warranty is written by UNI-T for this product, and it is used to substitute any other express or implied warranties. UNI-T and its distributors do not offer any implied warranties for merchant ability or applicability purposes.

For violation of this guarantee, regardless of whether UNI-T and its distributors are informed that any indirect, special, incidental, or consequential damage may occur, UNI-T and its distributors shall not be responsible for any of the damages.

1. Overview

Safety Information

This section contains information and warnings that must be followed to keep the instrument operating under safety conditions. In addition, user should also follow the common safety procedures.



Safety Precautions









Warning	Please follow the following guidelines to avoid possible electric shock and risk to personal safety.
	Users must follow the following conventional safety precautions in operation, service and maintenance of this device. UNI-T will not be liable for any personal safety and property loss caused by the user's failure to follow the following safety precautions. This device is designed for professional users and responsible organizations for measurement purposes.
	Do not use this device in any way not specified by the manufacturer. This device is only for indoor use unless otherwise specified in the product manual.





Safety Statement

Warning	"Warning" indicates the presence of a hazard. It reminds users to pay attention to a certain operation process, operation method or similar. Personal injury or death may occur if the rules in the "Warning" statement are not properly executed or observed. Do not proceed to the next step until you fully understand and meet the conditions stated in the "Warning" statement.
Caution	"Caution" indicates the presence of a hazard. It reminds users to pay attention to a certain operation process, operation method or similar. Product damage or loss of important data may occur if the rules in the "Caution" statement are not properly executed or observed. Do not proceed to the next step until you fully understand and meet the conditions stated in the "Caution" statement.
Note	"Note" indicates important information. It reminds users to pay attention to procedures, methods and conditions, etc. The contents of the "Note" should be highlighted if necessary.

Safety Sign

	Danger	"Danger" indicates the presence of a hazard. It reminds users to pay attention to a certain operation process, operation method or similar. Personal injury or death may occur if the rules in the "Danger" statement are not properly executed or observed. Do not proceed to the next step until you fully understand and meet the conditions stated in the "Danger" statement.
	Warning	"Warning" indicates the presence of a hazard. It reminds users to pay attention to a certain operation process, operation method or similar. Product damage or loss of important data may occur if the rules in the "Warning" statement are not properly executed or observed. Do not

		proceed to the next step until you fully understand and meet the conditions stated in the "Warning" statement.
	Caution	It indicates possible danger, which may cause damage to this device or other equipment if you fail to follow a certain procedure or condition. If the "Caution" sign is present, all conditions must be met before you proceed to operation.
	Note	It indicates potential problems, which may cause failure of this device if you fail to follow a certain procedure or condition. If the "Note" sign is present, all conditions must be met before this device will function properly.
	AC	Alternating current of device. Please check the region's voltage range.
	DC	Direct current of device. Please check the region's voltage range.
	Grounding	Frame and casing cover grounding terminal
	Grounding	Protective grounding terminal
	Grounding	Measurement grounding terminal
CAT 0		This instrument is suitable for measurements on circuits that are not directly connected to the grid power supply and circuits that are specially protected to be powered from the (internal) grid. In the latter case, the transient stresses are different, and the instrument should be used for this type of measurement to ensure that the peak transient voltage is less than and equal to 3000 V.
CAT I		Secondary electrical circuit connected to wall sockets through transformers or similar equipment, such as electronic instruments and electronic equipment; electronic equipment with protective measures, and any high-voltage and low-voltage circuits, such as the copier in the office.
CAT II		Primary electrical circuit of the electrical equipment connected to the indoor socket via the power cord, such as mobile tools, home appliances, etc. Household appliances, portable tools (e.g. electric drill), household sockets, sockets more than 10 meters away from CAT III circuit or sockets more than 20 meters away from CAT IV circuit.
CAT III		Primary circuit of large equipment directly connected to the distribution board and circuit between the distribution board and the socket (three-phase distributor circuit includes a single commercial lighting circuit). Fixed equipment, such as multi-phase motor and multi-phase fuse box; lighting equipment and lines inside large buildings; machine tools and power distribution boards at industrial sites (workshops).
CAT IV		Three-phase public power unit and outdoor power supply line equipment. Equipment designed to "initial connection", such as power distribution system of power station, power instrument, front-end overload protection, and any outdoor transmission line.
	Certification	CE indicates a registered trademark of EU

	Certification	UKCA indicates a registered trademark of UK
	Certification	Complies with UL STD 61010-1, 61010-2-030 and CSA STD C22.2 No. 61010-1 and 61010-2-030
	Waste	Do not put the equipment and accessories in the trash. The wasted items must be properly disposed of in accordance with local regulations.
	EFUP	This environment-friendly use period (EFUP) mark indicates that dangerous or toxic substances will not leak or cause damage within this indicated time period. The environment-friendly use period of this product is 40 years, during which it can be used safely. Upon expiration of this period, it should enter the recycling system.



Warning

The UT8806E Desktop Digital Multimeter only supports measurement of power supplies under CAT II (600V) type overvoltage conditions, so please use the instrument strictly in accordance with this measurement environment.

Safety Requirements

Warning	
Preparation before use	Please connect this device to AC power supply with the power cable provided. The AC input voltage of the line reaches the rated value of this device. See the product manual for specific rated value. The line voltage switch of this device matches the line voltage. The line voltage of the line fuse of this device is correct. It is not used to measure the main circuit.
Check all terminal rated values	Please check all rated values and marking instructions on the product to avoid fire and impact of excessive current. Please consult the product manual for detailed rated values before connection.
Use the power cord properly	You can only use the special power cord for the instrument approved by the local and state standards. Please check whether the insulation layer of the cord is damaged or the cord is exposed, and test whether the cord is conductive. If the cord is damaged, please replace it before using the instrument.
Instrument Grounding	To avoid electric shock, the grounding conductor must be connected to the ground. This product is grounded through the grounding conductor of the power supply. Please be sure to ground this product before it is powered on.
AC power supply	Please use the AC power supply specified for this device. Please use the power cord approved by your country and confirm that the insulation layer is not damaged.

Electrostatic prevention	This device may be damaged by static electricity, so it should be tested in the anti-static area if possible. Before the power cable is connected to this device, the internal and external conductors should be grounded briefly to release static electricity. The protection grade of this device is 4 kV for contact discharge and 8 kV for air discharge.
Use the input / output port of this device properly	Please use the input / output ports provided by this device in a properly manner. Do not load any input signal at the output port of this device. Do not load any signal that does not reach the rated value at the input port of this device. The probe or other connection accessories should be effectively grounded to avoid product damage or abnormal function. Please refer to the product manual for the rated value of the input / output port of this device.
Power fuse	Please use power fuse of specified specification. If the fuse needs to be replaced, it must be replaced with another one that meets the specified specifications by the maintenance personnel authorized by UNI-T.
Disassembly and cleaning	There are no components available to operators inside. Do not remove the protective cover. Maintenance must be carried out by qualified personnel.
Service environment	This device should be used indoors in a clean and dry environment with ambient temperature from 0°C to +40°C. Do not use this device in explosive, dusty or humid air.
Do not operate in moisture environment	To avoid the risk of short circuit or electric shock in the internal circuit of the instrument. Do not operate the instrument in humid environment.
Do not operate in flammable and explosive environment	Do not use this device in a flammable and explosive environment to avoid product damage or personal injury.
Caution	
Abnormality	If this device may be faulty, please contact the authorized maintenance personnel of UNI-T for testing. Any maintenance, adjustment or parts replacement must be done by the relevant personnel of UNI-T.
Cooling	Do not block the ventilation holes at the side and back of this device; Do not allow any external objects to enter this device via ventilation holes; Please ensure adequate ventilation, and leave a gap of at least 15 cm on both sides, front and back of this device.
Safe transportation	Please transport this device safely to prevent it from sliding, which may damage the buttons, knobs or interfaces on the instrument panel.
Proper ventilation	Poor ventilation will cause the device temperature to rise, thus causing damage to this device. Please keep proper ventilation during use, and regularly check the vents and fans.
Keep clean and dry	Please take actions to avoid dust or moisture in the air affecting the performance of this device. Please keep the product surface clean and dry.
Note	
Calibration	The recommended calibration period is one year. Calibration should only be carried out by qualified personnel.

Environmental Condition

This instrument is suitable for the following environment.

- Indoor use
- Pollution degree 2
- In operating, the altitude should lower than 3000 meters; in non-operating, the altitude should lower than 15000 meters
- Unless otherwise specified, operating temperature is 10 to +40 °C; storage temperature is -20 to + 70 °C
- In operating, the humidity temperature should below to +35 °C, and the relative humidity should $\leq 90\%$ In non-operating, the humidity temperature should within +35 °C to +40 °C, and the relative humidity should relative humidity $\leq 60\%$

There are ventilation opening on the rear panel and side panel of the instrument. So please keep the air flowing through the vents of the instrument housing. Make sure that the vent of the first instrument is away from the air exhaust of the other instruments. If air heated by an instrument flows to the second instrument, it may cause the second instrument to operate in over-temperature or even malfunction.

To prevent excessive dust from blocking the vents, please clean the instrument housing regularly. The housing is not waterproof, please disconnect the power supply first and then wipe the housing with a dry cloth or a slightly moistened soft cloth.

Connecting Power Supply

Voltage Range	Frequency
100-240VAC (fluctuant $\pm 5\%$)	50/60/240Hz

AC power specification is AC 100 ~ 240V 50/60Hz.

Please use the attached power lead to connect to the power port.

Connecting to service cable

This instrument is a Class I safety product. The supplied power lead has good performance in terms of case ground. This spectrum analyzer is equipped with a three-prong power cable that meets international safety standards. It provides good case grounding performance for the specification of your country or region.

Please connecting AC power cable as the following steps.

- Ensure the power cable is in good condition
- Leave enough space for connecting the power cord
- Plug the attached three-prong power cable into a well-grounded power socket.

Electrostatic Protection

Electrostatic discharge may cause damage to component. Components can be damaged invisibly by electrostatic discharge during transportation, storage and use.

The following measure can reduce the damage of electrostatic discharge.

- Testing in anti-static area as far as possible
- Before connecting the power cable to the instrument, inner and outer conductors of the instrument should be briefly grounded to discharge static electricity
- Ensure all the instruments are properly grounded to prevent the accumulation of static

Serial Number and System Information

UNI-T continually improves the performance, availability, and reliability of its products. UNI-T service personnel have access to check the serial number and system information.

The serial number is located on the serial label on the rear cover, or if the instrument is powered on, press the [System] key -> "INFO" to view. System information is useful for updates and aftermarket upgrades.

2. Introduction

Supporting Product

This manual covers servicing the following products:

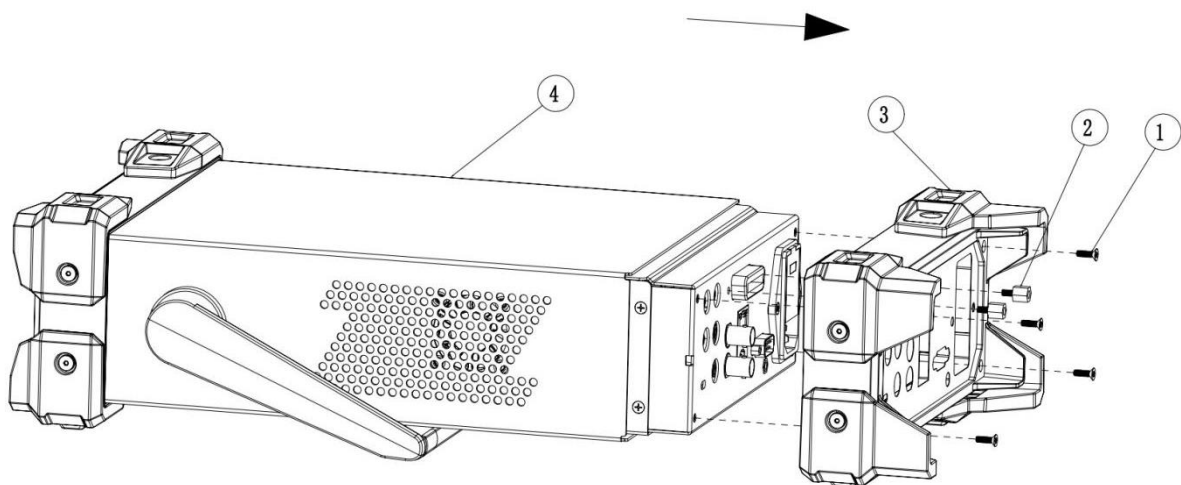
UT8806E check for a specific product name in the header, title, table or chart title or text at the top of the page. Material without any specific product name applies to all products in the manual.

Operation Information

The instrument information of installation, operation and remote control see User's Manual.

3. Structure

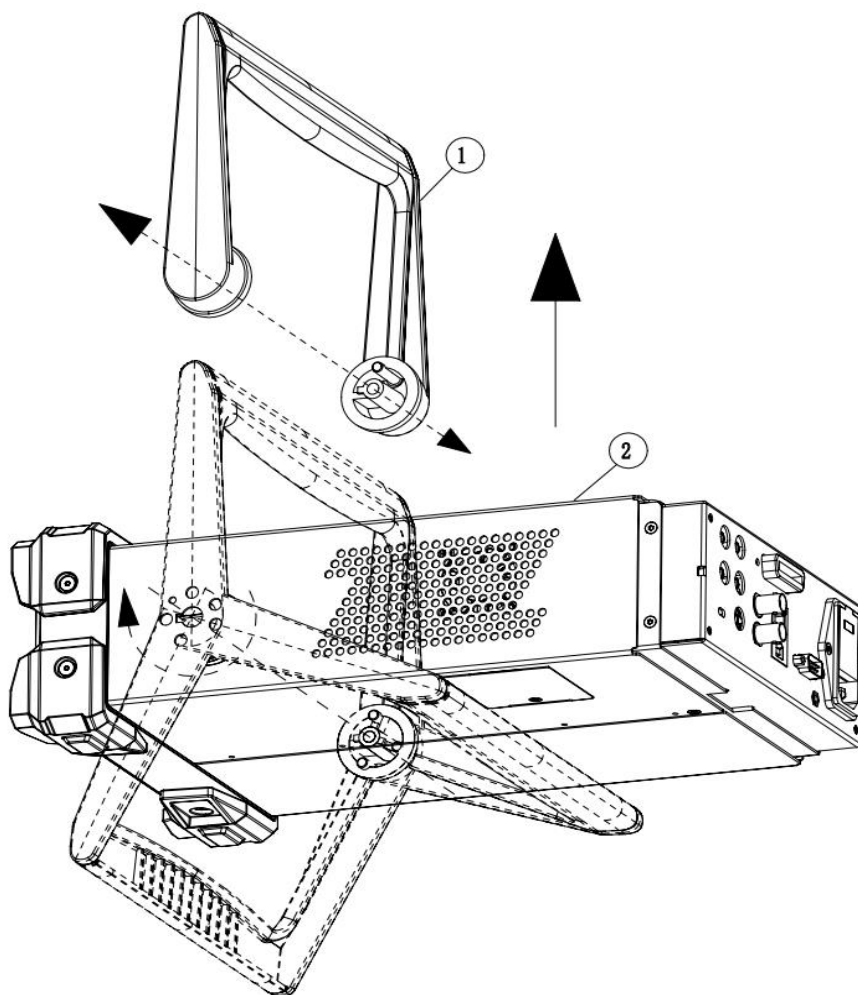
Rear Module



Accessory List

No.	Article	Description
1	KM3X8 quincunx screw	Use T10 quincunx screwdriver to remove 4 screws
2	GPIB hexagonal screw	Use 5.5 hexagonal screwdriver or needle-nose pliers to remove 2 screws
3	Rear cover	
4	Product body	

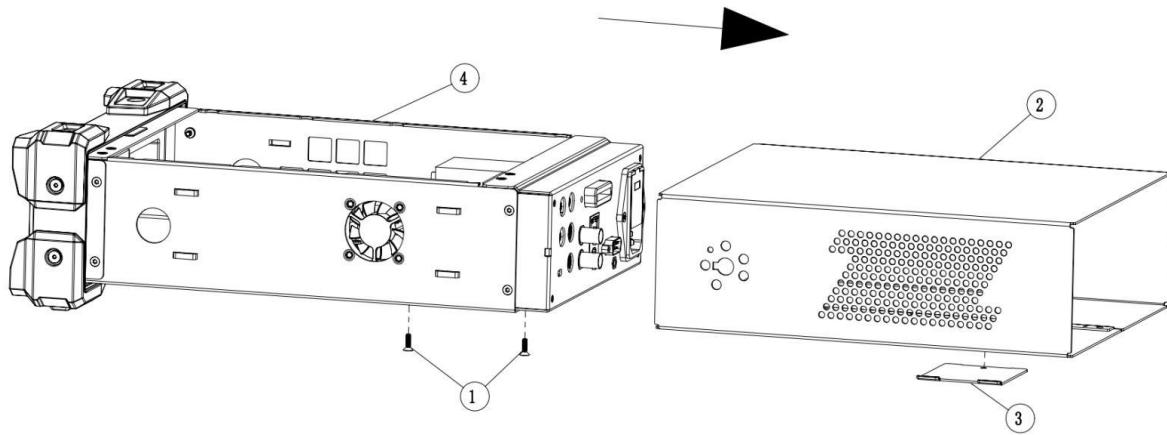
Handle



Accessory List

No.	Article	Description
1	Handle	Pull the handle to both sides by slightly force, rotate vertically along the direction of the host panel to the top of the machine, and then pull away on both sides
2	Frame component	

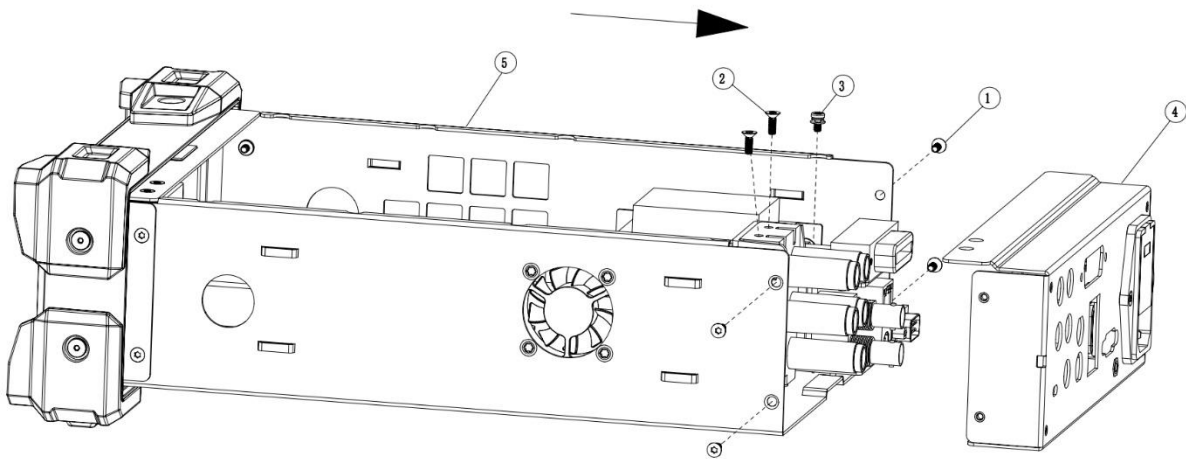
Outer Frame



Accessory List

No.	Article	Description
1	KM3X8 quincunx screw	Use T10 quincunx screwdriver to remove 2 screws
2	Outer frame	Pull to the back of the case
3	Fuse cover	Take it down
4	Product body	

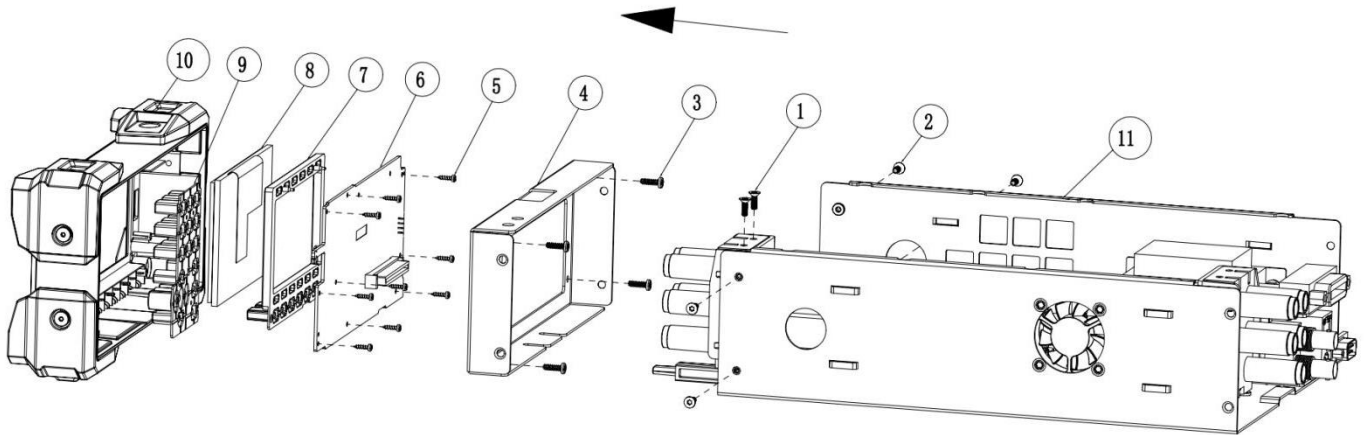
Rear Panel



Accessory List

No.	Article	Description
1	KM3X6 quincunx screw	Use T10 quincunx screwdriver to remove 4 screws
2	KM3X7 quincunx screw	Use T10 quincunx screwdriver to remove 2 screws
3	PM3X6 quincunx machine screw	Use T10 quincunx screwdriver to remove 1 screw
4	Rear panel	Pull to the back of the case
5	Product body	

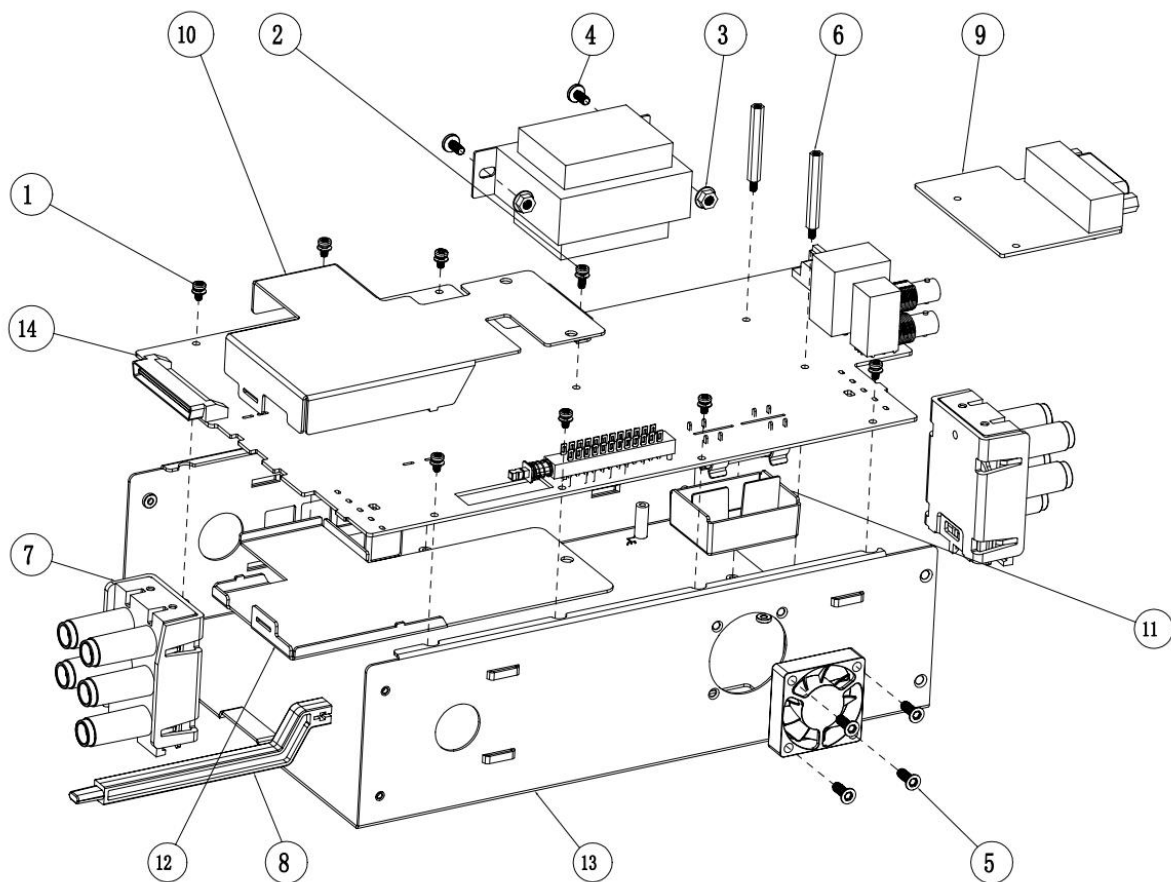
Control Board



Accessory List

No.	Article	Description
1	KM3X7 quincunx screw	Use T10 quincunx screwdriver to remove 2 screws
2	KM3X6 quincunx screw	Use T10 quincunx screwdriver to remove 4 screws
3	PB3X7 quincunx self-tapping screw	Use T10 quincunx screwdriver to remove 4 screws
4	Front panel	
5	PB2X8 quincunx self-tapping screw	Use T6 quincunx screwdriver to remove 9 screws
6	Control PCB	
7	Function key	
8	LCD module	
9	Control key	
10	Surface cover	
11	Product body	

Product Body



Accessory List

No.	Article	Description
1	PM3X6 quincunx machine screw	Use T10 quincunx screwdriver to remove 7 screws
2	PM3X8 quincunx machine screw	Use T10 quincunx screwdriver to remove 1 screw
3	Hexagonal flange nut _4X0.7	Use needle-nose pliers to clamp 2 screws
4	CM4X8 quincunx short-head machine screw	Use T8 quincunx screwdriver and needle-nose pliers to remove 2 screws
5	PB4.0X10 quincunx countersunk head self-tapping screw	Use T20 quincunx screwdriver to remove 4 screws
6	m3X35 hexagonal stud	
7	Input socket	
8	Input socket switching	Pull out along the surface cover
9	GPIB module	
10	Upper cover of shielding case	
11	Protective cover of fuse	Pull it down by hand
12	Upper cover of shielding case	
13	Inner frame	

4. Maintenance

This section contains the information needed to do periodic and corrective maintenance on the instrument.

ESD Prevention

Before servicing this product, read the General Safety Summary and the Service Safety Summary at the front of the manual, as well as the following ESD information.



Caution: Electrostatic discharge (ESD) can damage any semiconductor component in this instrument.

When performing any service that requires internal access to the instrument, adhere to the following precautions to avoid damaging internal modules and their components due to electrostatic discharge.

1. Minimize handling of static-sensitive circuit boards and components.
2. Transport and store static-sensitive modules in their static protected containers or on a metal rail. Label any package that contains static-sensitive boards.
3. Discharge the static voltage from your body by wearing a grounded antistatic wrist strap while handling these modules.
4. Service static-sensitive modules only at a static-free work station.
5. Do not allow any items capable of generating or holding a static charge on the work station surface.
6. Handle circuit boards by the edges when possible.
7. Do not slide the circuit boards over any surface.
8. Avoid handling circuit boards in areas that have a floor or work-surface covering capable of generating a static charge.

Inspection and Cleaning

Inspection and cleaning describes how to inspect for dirt and damage. It also describes how to clean the exterior and interior of the instrument. Inspection and cleaning are the preventive maintenance. Regularly preventive maintenance can prevent malfunction and enhance its reliability.

Preventive maintenance consists of visually inspecting and cleaning the instrument and using general care when operating it.

The frequency of performing maintenance depends on the severity of the environment in which the instrument is used. The appropriate time to perform preventive maintenance is before the instrument is adjusted.

Exterior Cleaning

Clean the exterior surfaces of the chassis with a dry lint-free cloth or a soft-bristle brush. If any dirt remains, use a cloth or swab dipped in a 75% isopropyl alcohol solution. Use a swab to clean narrow spaces around controls and connectors. Do not use abrasive compounds on any part of the chassis that may damage the chassis.



Caution: Avoid the use of chemical cleaning agents which might damage the plastics used in this instrument.

Use only deionized water when cleaning the front-panel buttons. Use a 75% isopropyl alcohol solution as a cleaner for cabinet parts. Before using any other type of cleaner, consult UNI-T Service Center or representative.

Appearance Inspection Inspect the outside of the instrument for damage, wear, and missing parts. Immediately repair defects that could cause personal injury or lead to further damage to the instrument.

External Inspection Checklist

Item	Inspect	Repair Action
Cabinet, front panel, input port	Cracks, scratches, deformations, damaged hardware	Repair or replace defective modules
Rotary knob on front panel	The knob is missing, damaged or loose	Repair or replace missing or defective knobs
Connection	Broken shells, cracked insulation, and deformed contacts Dirt in connectors	Repair or replace defective modules Clear or brush out dirt
Carrying handle and support leg	Correct operation	Repair or replace defective modules
Accessories	Missing items or parts of items, bent pins, broken or frayed cables, and damaged connectors	Repair or replace damaged or missing items, frayed cables, and defective modules

Screen Cleaning

Please use wet tissue or a soft cloth to wipe the dust from the screen and surface.

If the display screen is very dirty, please use a cloth to dipped in distilled water, 75% isopropyl alcohol solution or glass cleaner to slightly wipe the screen surface. Only use enough water to wet the cloth or to wipe. Please do not use excessive force, which may damage the display surface.



Caution: Improper cleaner and cleaning way will cause damage to the screen.

- Do not use abrasive cleaner or surface cleaner to clear the LCD.
- Do not directly spray water on the LCD surface.
- Do not excessive force to wipe the LCD.



Caution: To prevent moisture inside the instrument during external cleaning, do not spray any cleaning solution onto the screen or instrument directly.

Return Instrument to Maintenance

Use the original package to repack the instrument for shipping. If the package is not applicable, please contact the local UNI-T representative for a new packing.

Use industrial stapler or strapping tape to seal the carton.

If the instrument is being shipped to a UNI-T Service Center, enclose the following information.

- The owner's address
- Name and phone number of a contact person
- Model and serial number of the instrument
- Reason for returning
- A complete description of the service request

Mark the address of the UNI-T Service Center and also your own return address on the shipping carton in two prominent locations.

5. Replacement

Disassembly/Replacement Tool

Use the tool is shown in the following table to replace the module of the digital power meter.

No.	Tool Name	Description
1	Quincunx screwdriver	The model refers to the removal steps
2	Soft pad	For protect the screen and rotary knob when removing rear modules
3	ESD prevention	To prevent static damage to the components while working on the instrument, wear properly grounded anti-static wristbands and foot bands, and use anti-static pads in a tested anti-static environment

Replace Small Current Fuse

Explanation

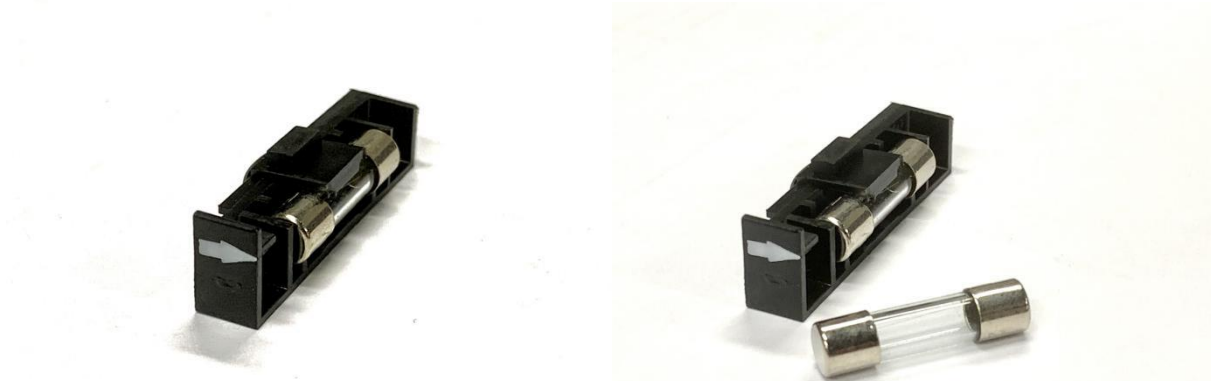
This section can fix the two problems.

- 1) Replace the fuse
- 2) Supply voltage selection switching

1. Open the opening at the top of the power module to replace the small current fuse, as shown in the following figure.



2. Power fuse, as shown in the following figure.



3. Reverse execute the above step to reinstate.

Replace Handle

Explanation

This section describes how to remove and replace handle.

1. Rotating the handle to removal position and pull out by slightly force. If the handle is damaged, it can be replaced by this procedure, as shown in the following figure.



2. **Caution:** Keep the instrument body upright and the handle should be is perpendicular to the body, and then hidden hook be taken out from the instrument, as shown in the following figure.



Remove Case and Replace 10A Fuse

Explanation

The following step is to replace 10A fuse.

Remove the bottom protective cover and replace the fuse, as shown in the following figure.



Remove and Replace Key Board

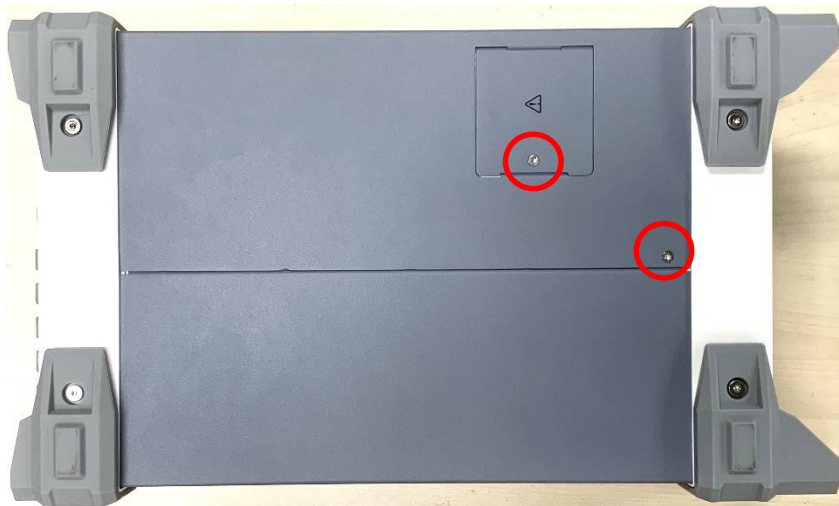
Explanation

The following operations can be used to disassemble the front panel, rear panel and outer frame; Remove and repair the front panel.

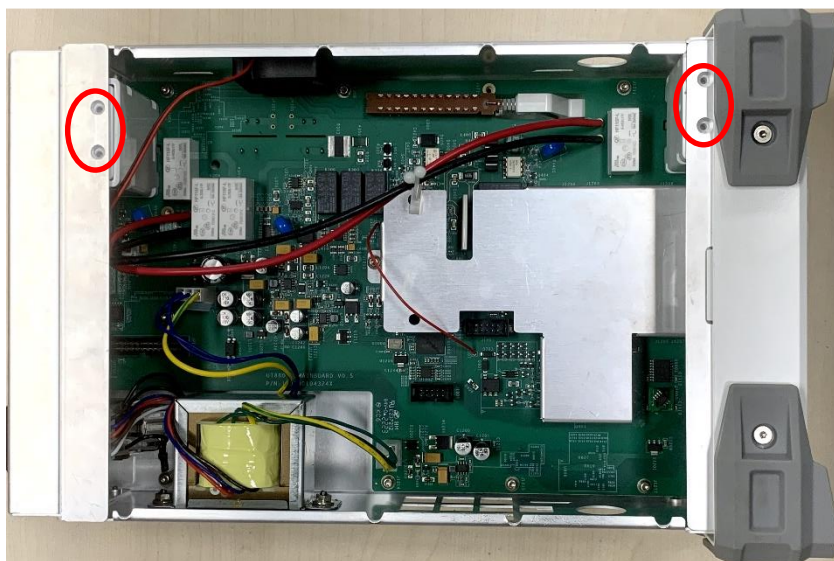
1. Use T10 quincunx screwdriver to remove 4 screws securing the rear panel, as shown in the following figure.



2. Use T10 quincunx screwdriver to remove 2 screws securing the outer frame, as shown in the following figure.



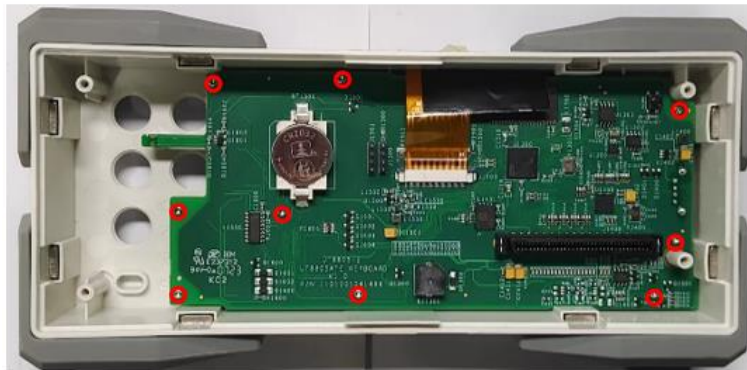
3. Use T10 quincunx screwdriver to remove 4 screws securing the input socket on the front and rear panel and remove 8 screws on the side to take out the front and rear panel.



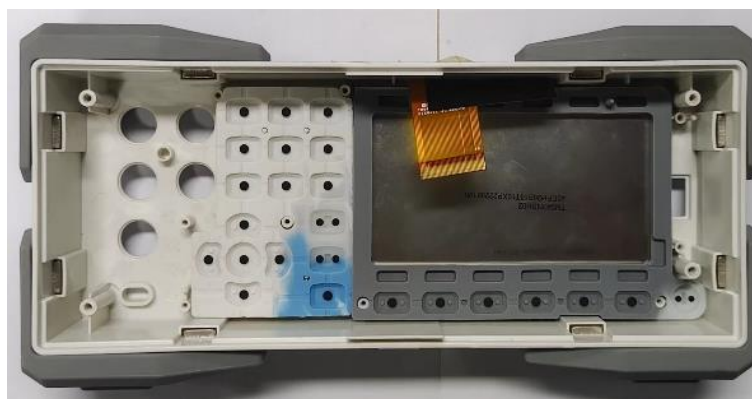
4. Use T10 quincunx screwdriver to remove 4 screws securing the surface board, as shown in the following figure.



- Use T10 quincunx screwdriver to remove 9 screws securing the surface board, as shown in the following figure.



- The display screen can only be taken out when the key board is removed, as shown in the following figure.



- Reverse execute the above step to restate.

Remove Main Board

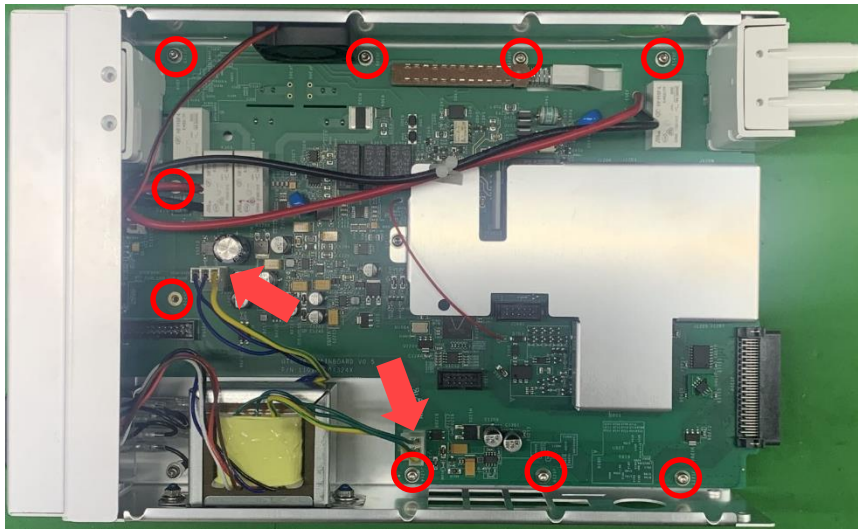
Explanation

The following operations can be used to disassemble the main board of the multimeter.

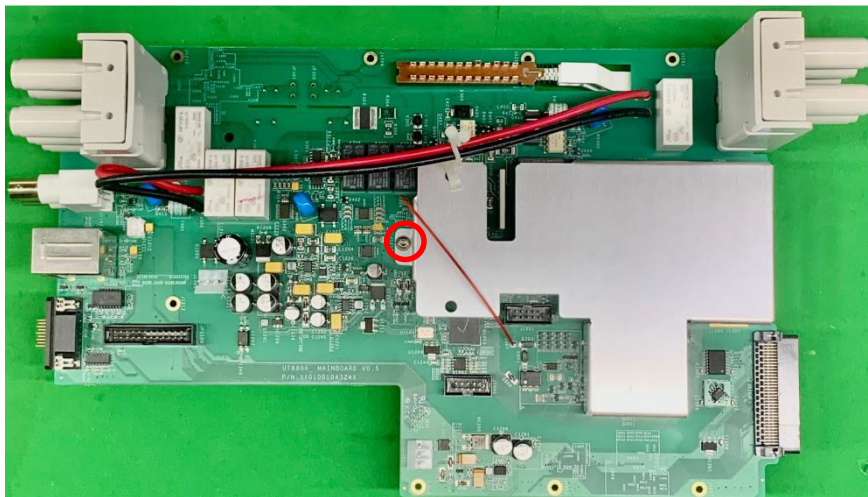
- Use 5mm hexagonal screwdriver to remove 2 screws securing the rear panel, as shown in the following figure.



- Use T10 quincunx screwdriver to remove 7 screws securing the main board, and take out the plug wires between the main board and transformer, and then slightly pull out the main board, as shown in the following figure.



3. Use T10 quincunx screwdriver to remove 1 screw securing the shielding cover of main board, and then take out the main board to repair or replace parts of unit, as shown in the following figure.



4. Reverse execute the above step to reinstate.

Remove Rear Panel

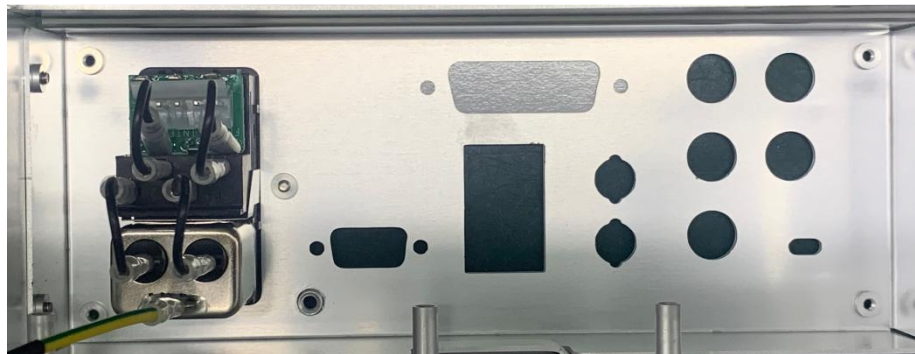
Explanation

The following operations can be used to disassemble the rear panel and power module.

1. Use T10 quincunx screwdriver to remove 4 screws on the left and right side of the rear panel, as shown in the following figure.



2. Pull out the rear panel by slightly force, as shown in the following figure.

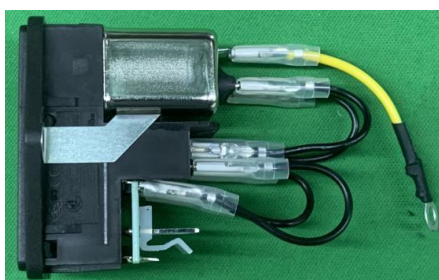


3. Use T10 quincunx screwdriver to remove 2 screws securing the rear panel and power socket, as shown in the following figure.

- To prevent static damage to the components while working on the instrument, wear properly grounded anti-static wristbands and foot bands, and use anti-static pads in a tested anti-static environment.



4. Take out the power module, as shown in the following figure.



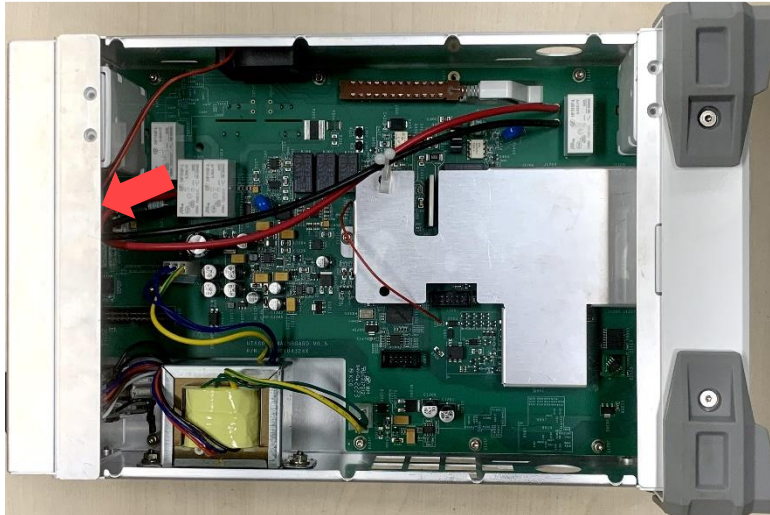
5. Reverse execute the above step to reinstate.

Remove Fan

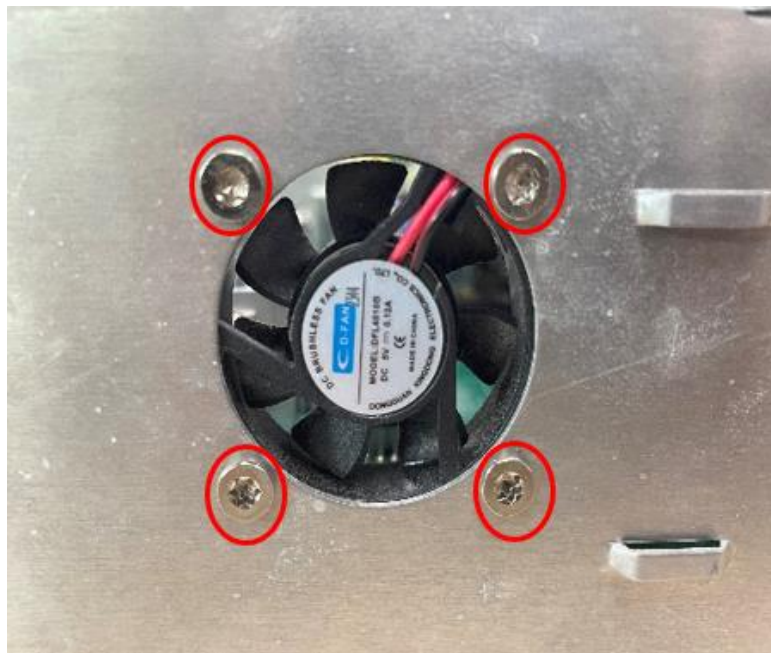
The following operations can be used to disassemble the fan.

Steps

1. Disconnect the wire connecting to the fan and main board, as shown in the following figure.



2. Use T10 quincunx screwdriver to remove 4 screws on the middle frame securing the fan, as shown in the following figure.



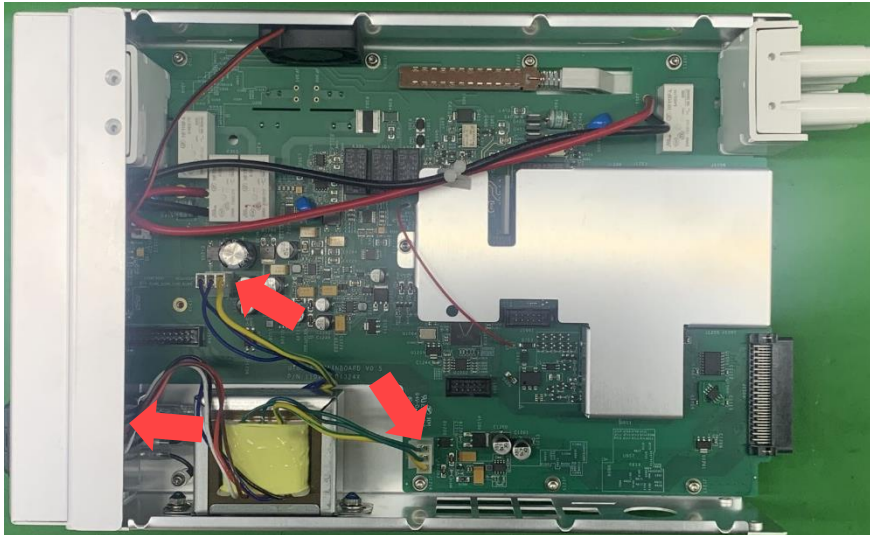
3. Reverse execute the above step to reinstate.

Remove Transformer

The following operations can be used to disassemble the transformer.

Steps

1. Disconnect the wire connecting to the transformer and power socket, as shown in the following figure.



2. Use T10 quincunx screwdriver and needle-nose pliers to remove 2 screws on the middle frame securing the transformer, as shown in the following figure.
- 3.



4. Reverse execute the above step to reinstate.

6. Troubleshooting

Service Rank

The information and procedure contains in this section can help you determine whether the instrument has problem.

If the power is failure, please send the instrument back to UNI-T Service Center for repair. Because the user cannot replace the internal electronic components or modules.

Common Problem

Use the following table to isolate the possible faults. The table is not exhaustive, but it can help you to eliminate quick-fix issues, such as the power cable is loose.

For more details, please see Troubleshooting Flowchart.

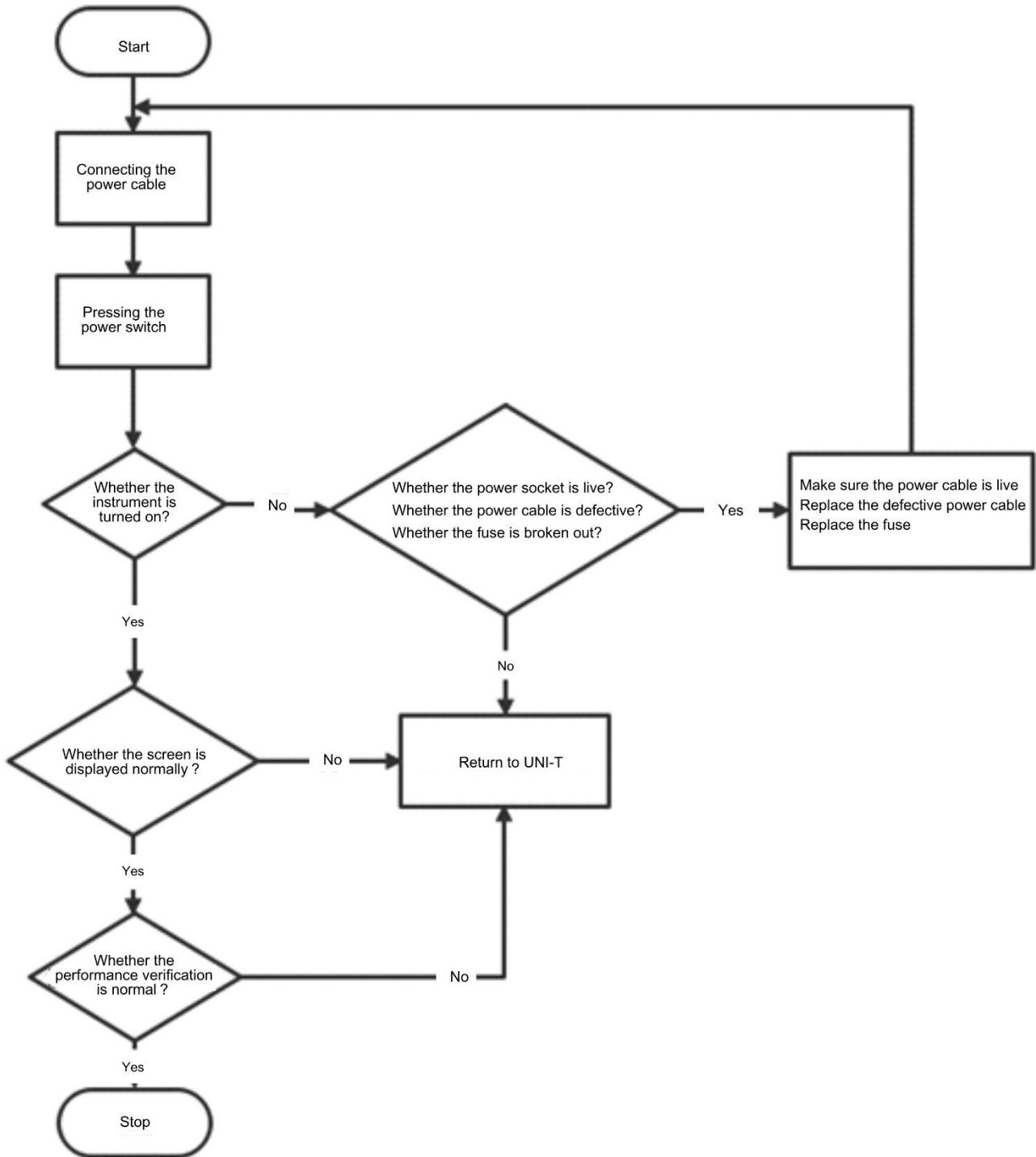
Fault Symptoms	Possible Reasons
The instrument cannot power on	<ul style="list-style-type: none">● Power cable is not inserted or has defective● Fuse is blown● Power module is fault
Screen is blank or displays stripe	<ul style="list-style-type: none">● LCD or display circuit is fault

Requirement

- The digital power meter is used to check the power voltage
- Anti-static work environment

Troubleshooting Flowchart

The following flowchart describes how to troubleshoot the instrument in the most general case. This does not guarantee a full recovery from all possible hardware failures.



After Maintenance

If the instrument cannot pass the performance verification test after remove and replace the power module, please send the instrument back to UNI-T Service Center for adjustment.

7. Appendix

Warranty Overview

UNI-T warrants the products be free from defects in material and workmanship for a period of one year from the date of shipment from the authorized distributor. If the product proves defective during the warranty period, UNI-T will repair and replace it as detailed in the warranty statement.

To arrange for repairs or to obtain a copy of the full warranty statement, please contact the nearest UNI-T sales and repair office.

UNI-T makes no warranties, express or implied, other than those provided in this summary or in other applicable warranty certificates, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose. In no event, UNI-T shall not be liable for indirect, special or consequential damages.

Contact Us

If the use of this product has caused any inconvenience, if you in mainland China you can contact UNI-T company directly.

Service support: 8am to 5.30pm (UTC+8), Monday to Friday or via email. Our email address is infosh@uni-trend.com.cn

For product support outside mainland China, please contact your local UNI-T distributor or sales center.

Many UNI-T products have the option of extending the warranty and calibration period, please contact your local UNI-T dealer or sales center.

To obtain the address list of our service centers, please visit our website at URL: <http://www.uni-trend.com>