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FAQ & Troubleshooting of F15

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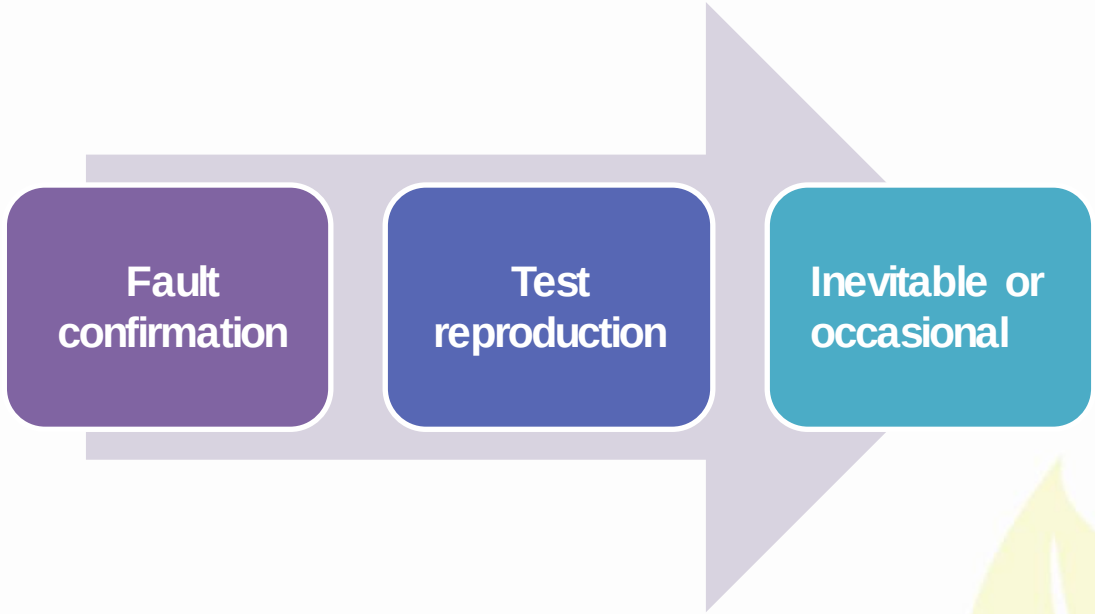
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- Product troubleshooting guidelines

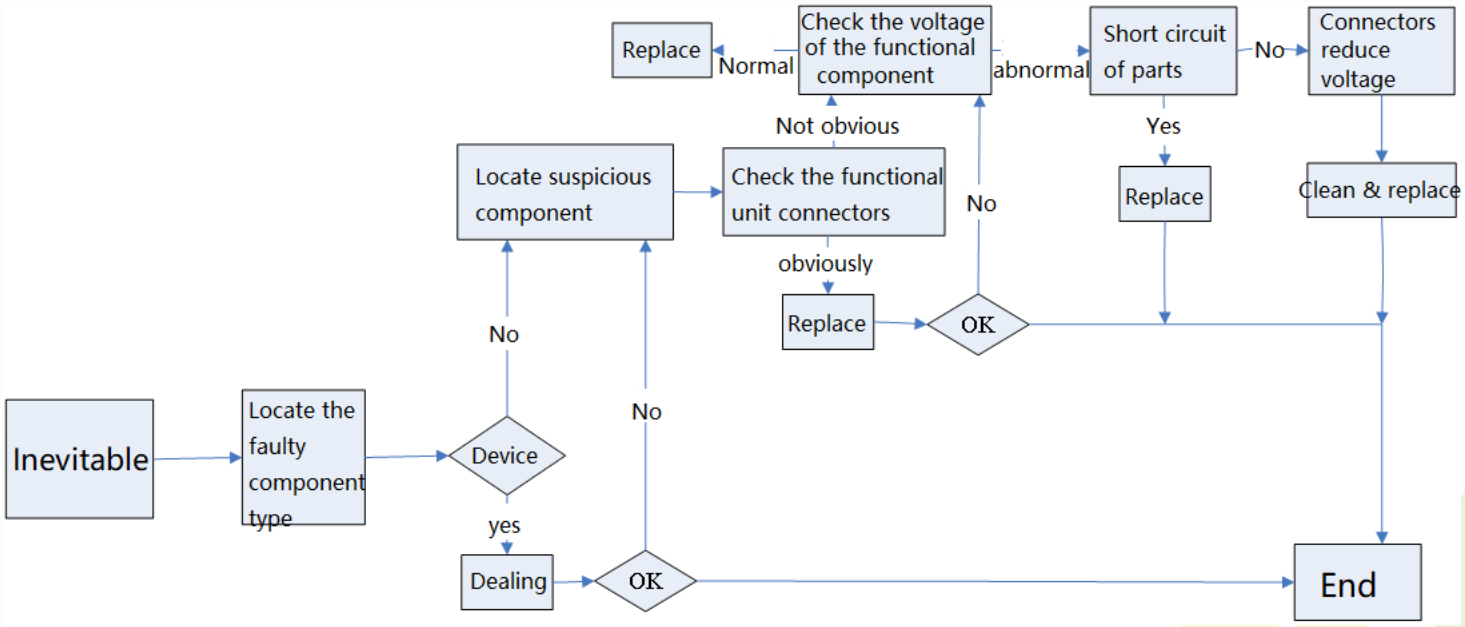
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Product troubleshooting guidelines



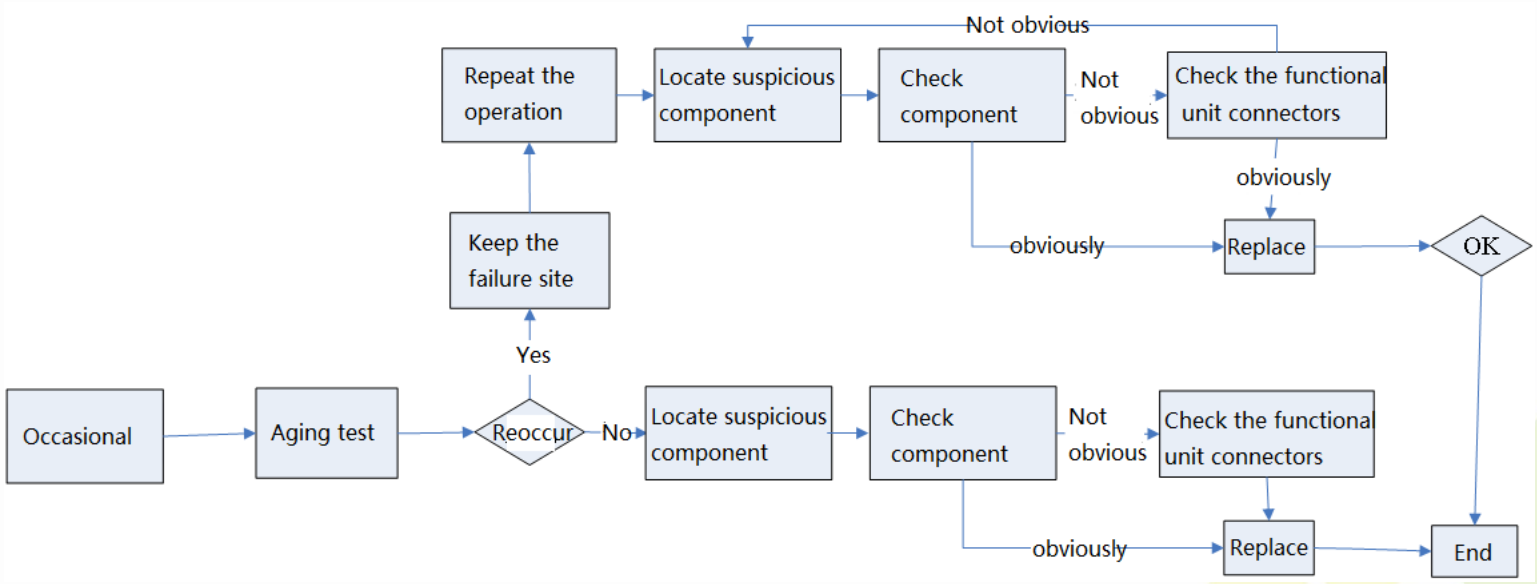
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Product troubleshooting guidelines



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Product troubleshooting guidelines



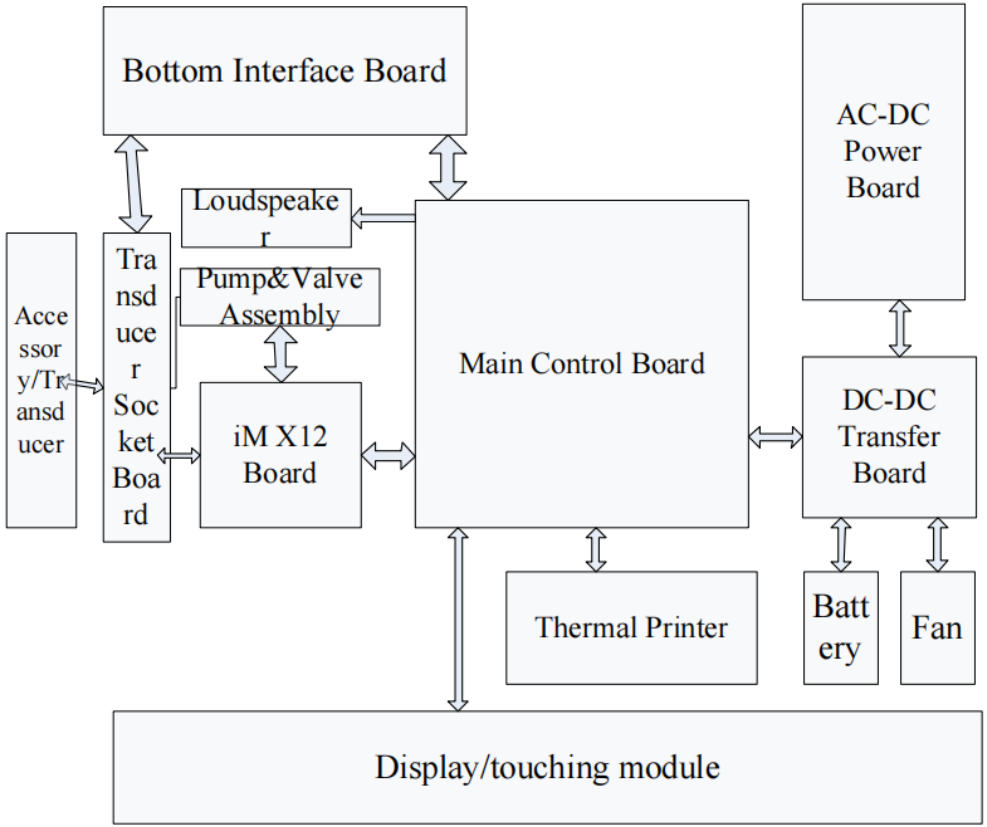
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- F15 troubleshooting and resolution of common problems

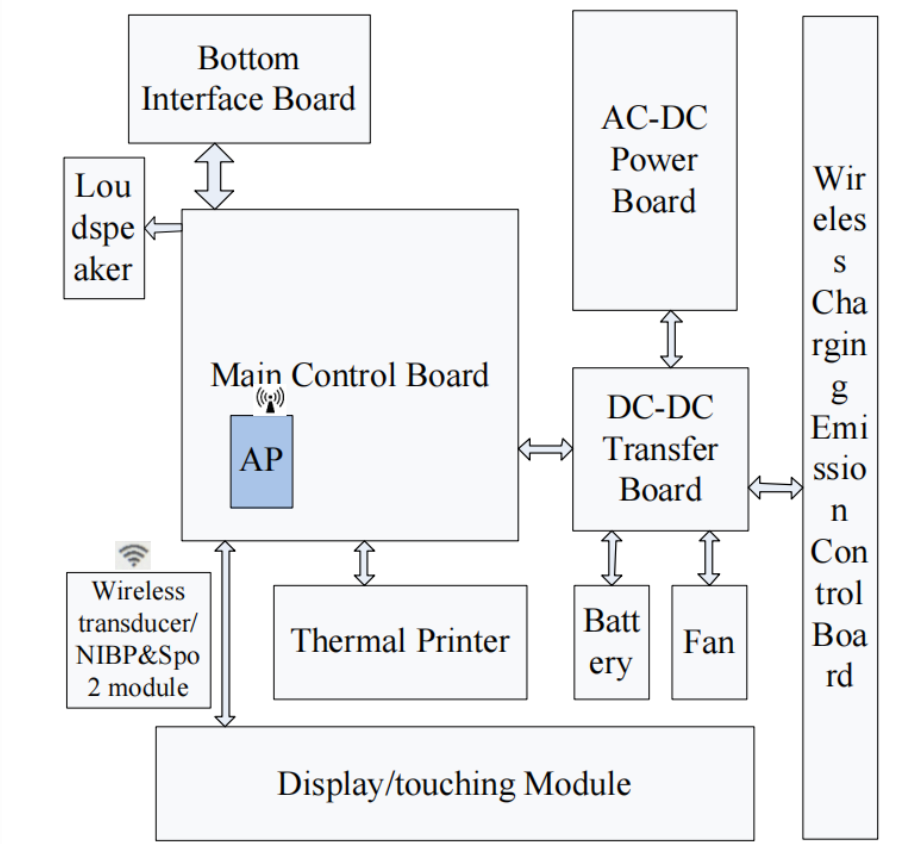
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F15 schematic block diagram - 1. Wired model



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F15 schematic block diagram - 2. Wireless model



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Power-on failure

phenomenon	Possible cause	solution
After the device is powered on, the screen is not displayed, the power indicator is off, and the fan does not turn	No AC power in	Check whether there is any damage on the power cable or poor connection with the instrument.
	Main board failure	Replace the main board.
Sudden automatic shutdown	The monitor is subjected to a transient high voltage shock, such as a lightning strike	Check the power supply and grounding system
	Power failure	Replace the power supply
	The power input is in poor contact	Check the power input
	Main control board fault	Replace the main board.

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Display failure

phenomenon	Possible reason	solution
The LCD has no display.	The connection of the LCD is faulty	Check whether the LCD is securely connected to the main control board and the inverter, and whether the LCD backlight is normal
	LCD failure	Replace the display
	Main control board fault	Replacing a main control board
The screen displays error characters	LCD defective	Replace the LCD

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Touch ScreenFailures

phenomenon	Possible reason	solution
The touch screen is not functioning.	The touch screen related cable is disconnected.	Check that the touch screen related cables between the main control board, touch screen controlling board and the touch screen are well connected.
	The touch screen is damaged.	Replace the touch screen.
The touch position invalid.	The touch screen is not calibrated.	Calibrate the touch screen using procedures described in section 4.6 Calibrating Touch Screen.

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Sound Failures

phenomenon	Possible reason	solution
Hoarse or odd sound from loudspeaker.	Loudspeaker defective.	Replace the loudspeaker.
	Main control board defective.	Replace the main control board.

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Recorder fault

phenomenon	Possible reason	solution
Press the print button and no paper will be printed	The paper barn is short of paper	Load and close the paper bin
	Paper bin opening	Close the paper bin
	Paper jam	Open the paper bin clear paper jam; Close the bin after reloading
	Print controlling board defective.	Replace the print controlling board.
	Recorder connection failure	Check all connections
	The tooth box/gear is faulty	Replace tooth box or gear
	Main control board fault	Replacing a main control board
The screen shows the alarm message "print paper shortage", but there is paper in the bin	Paper sensor dirty.	Clean the paper sensor
	Paper sensor defective.	Replace the paper sensor.
	Paper bin not closed	Push the drawer back in position.
Blank, blurry or incorrect traces.	Recording paper is not correctly loaded.	Reload paper correctly
	The two nuts on the print head are not balanced	Adjusting nut
	Print head fault	Change print head
	The Printer paper Type in the monitor is incorrectly set	Reset "Printer Paper Type"

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Network fault

phenomenon	Possible reason	solution
The monitor cannot be networked	The bottom interface board defective.	Replace the bottom interface board.
	Bad connection between the bottom interface board and main control board.	Check connection
	Main control board fault	Replacing a main control board
	Overlapped device no. in the network.	Change device no. of the monitor.
	The IP address of the server is incorrect	The IP address of the server is set correctly

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Alarm failure

phenomenon	Possible reason	solution
No audible alarm is activated.	The audible alarm is temporarily disabled.	Switch on the audible alarm.
	Loudspeaker or wire defective.	Replace the loudspeaker or the wire.
The alarm indicator stays off.	Alarm indicator board defective.	Replace alarm indicator board.
No audible alarm or visual alarm is activated.	Program defective.	Upgrade the software.

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Alarm failure

phenomenon	Possible reason	solution
FETUS 302 MODULE MALF or Extend 302 MODULE MALF or FETUS 417 MODULE MALF.	Wired and wireless model is selected by mistake.	Re-set the model type.
	Main control board defective.	Replace the main control board.
SpO2 EQUIP MALF	Bad connection between iM X12 parameter board and main control board.	Check the connection.
	iM X12parameter board defective.	Replace the iM X12 parameter board.
	Main control board defective.	Replace the main control board.

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FHR/TOCO Monitoring failures

phenomenon	Possible reason	solution
No FHR/TOCO trace or numeric value.	Bad connection of the transducers.	Check the connection.
	US Transducer defective.	Replace the transducer.
	Transducer socket board defective.	Replace the transducer socket board.
	Bad connection between the transducer socket board, bottom interface board and main control board.	Check the connection.
	Main control board defective.	Replace the main control board.
Lower heart beat or no sound.	Loudspeaker defective.	Replace the loudspeaker.
	US transducer defective.	Replace the US transducer.
	Main control board defective.	Replace the main control board.
Inaccurate measurement values.	US Transducer defective.	Replace the transducer.
	Main control board defective.	Replace the main control board.

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ECG monitoring faulty

phenomenon	Possible reason	solution
No ECG trace.	Bad connection of ECG cable.	Check the connection.
	Cables defective.	Replace the cables.
	Bad connection of electrodes.	Check the connection.
	TOCO&MECG Transducer defective.	Replace the TOCO&MECG Transducer.
	Main control board defective.	Replace the main control board.

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SpO2 monitoring faulty

phenomenon	Possible reason	solution
No SpO2 waveform or numeric value.	SpO2transducer defective.	Replace theSpO2transducer.
	Bad connection of SpO2cable.	Check the connection.
	iM X12parameter board defective.	Replace the iM X12parameter board.
	Main control board defective.	Replace the main control board.

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NIBP monitoring faulty

phenomenon	Possible reason	solution
The cuff fails to be inflated.	Bad connection of the cuff, the air hose and the NIBP socket.	Check the connection from outside.
	Bad connection of the iM X12 board to the NIBP socket.	Check the connection from inside.
	Cuff or extension tube defective.	Replace the damaged part(s).
	Air pump, air valve leak.	Replace pump valve module.
	iM X12 parameter board defective.	Replace the iM X12 parameter board.
	Main control board defective.	Replace the main control board.
No NIBP numeric values.	iM X12 parameter board defective.	Replace the iM X12 parameter board.
	Air pump, air valve leak.	Replace pump valve module.
	Main control board defective.	Replace the main control board.

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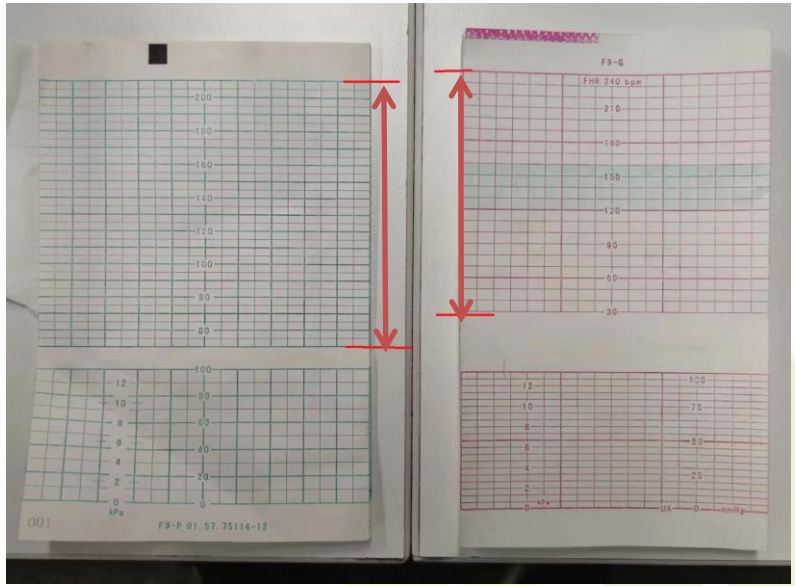
TEMP monitoring faulty

phenomenon	Possible reason	solution
No TEMP numeric value.	TEMPtransducer defective.	Replace theTEMPtransducer.
	Bad connection of TEMP transducer.	Check the connection.
	iM X12 parameter board defective.	Replace the iM X12 parameter board.
	Main control board defective.	Replace the main control board.

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Case sharing 1

- **Fault phenomenon:** Print waveform offset, not clear.
- **Reason analysis**: They customer did not use the original print paper, the size is deviated, and the paper residue will drop and lead to dirty printing head, so that the printing is not clear.
- **Treatment measures**: Replace the original printing paper and wipe the printing head.



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Case sharing 2

- **Fault symptom**: Print paper jam.
- **Reason analysis**: the copper shaft sleeve of the roller is worn badly.
- **Treatment measures**: replace the copper shaft sleeve and the roller shaft.



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Case sharing 3

- **Fault symptom**: The instrument cannot be turned on.

- **Cause analysis**: The indicator light of the measured instrument was on, and the power button could not be turned on by pressing the power button. The instrument was disassembly and short-circuited to the power port of the power board. The instrument was turned on normally, all functions of the test were normal, and other keys were used normally.

- **Treatment measures**: Replace the key plate.

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Case sharing 4

- **Failure phenomenon**: The US and TOCO probes can not connect with the main unit
- **Cause analysis**: The F15Air main unit has wireless AP module and the default IP is 192.168.1.1, and this IP is used for connecting with the wireless probes. Thus the monitor IP can not be 192.168.1.X, otherwise it will conflict with this default IP address. If the main unit's IP address is set with this 192.168.1.X when connect with CNS, then the probes do not know which one should be connected, then they can never connect with the main unit.
- **Treament measures**: Modify the main unit's IP to others, as long as it is not 192.168.1.X, the probe can connect with the main unit normally.

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THANK YOU

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