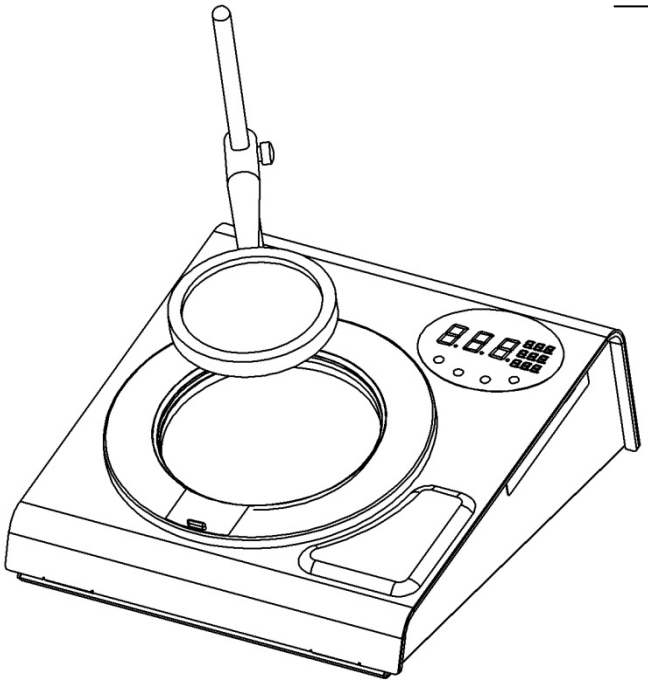
ROCKER

Service Manual

Colony Counter



Model No.

Galaxy 330

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Instruction

Important notice before troubleshooting:

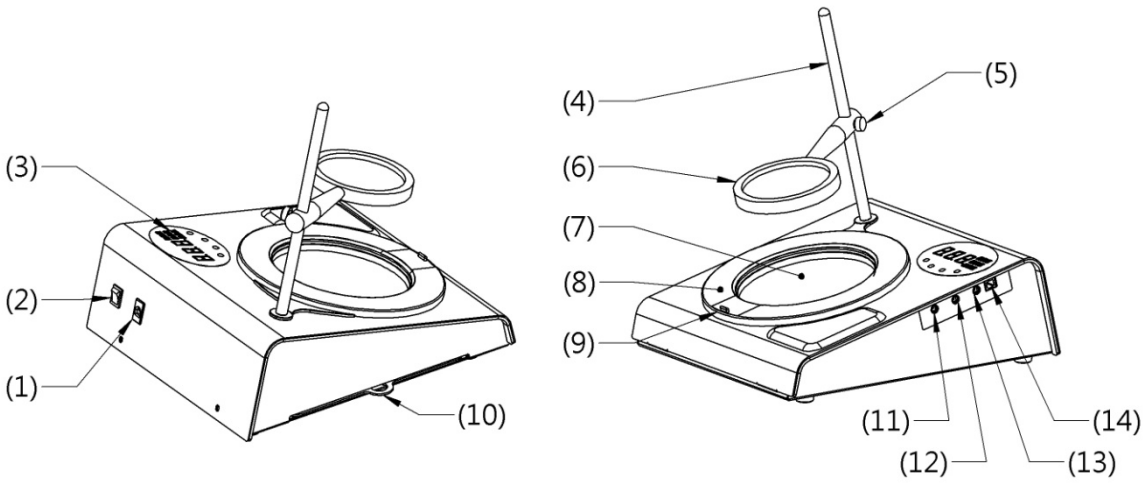
1. Improper connection of the wire will cause the damage of motherboard
2. Improper connection of the sensor will cause poor pressure sensitivity
3. The incorrect wiring of pressure sensor will make the counter sensitive lower
4. After every use, please wipe the Petri dish position, the magnifier and surface of colony counter by 75% alcohol for sterilization and to gain good illumination.
5. Please keep the instrument in well packed box to avoid the instrument from being attached by the dust if you plan not to use it for long time.

Most Common Problems

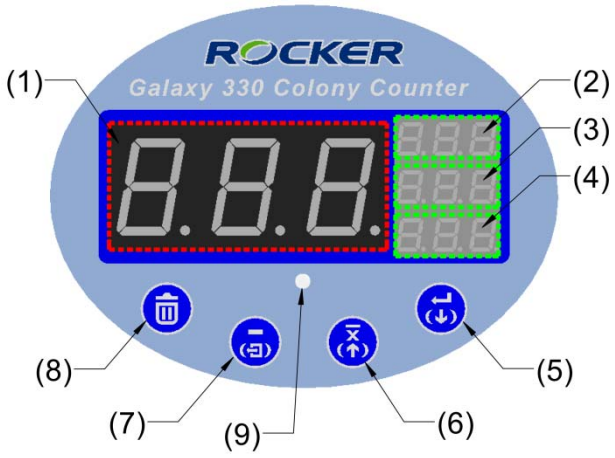
Common Problem	Cause	Solution
Fails to start	1.Check the power supply conform to power specified (DC12V) on main unit	Replace with right power adaptor
	2.The power switch or socket is damaged	Replace with new switch or socket
	3.The wiring connection is incorrect or wiring is damaged	Replace the wiring if it is damaged. Reinstall the wiring if it is not correct.
	4.The motherboard is damaged	Replace the motherboard
Poor LED lighting	1.Improper light intensity adjustment	Adjust the light intensity with a screwdriver
	2.The backlight is broken	Replace the backlight
	3. The motherboard is damaged	Replace the motherboard
	4. The wiring connection is incorrect or wiring is damaged	Replace the wiring if it is damaged. Reinstall the wiring if it is not correct.
Acoustic counting signal is too low	1.Improper volume adjustment	Adjust the volume with a screwdriver
	2. The motherboard is damaged	Replace the motherboard
Poor pressure sensitivity	1.Improper sensitivity adjustment	Adjust the sensitivity with a screwdriver
	2. The motherboard is damaged	Replace motherboard
	3.Sensor is damaged	Replace the sensor
	4. The wiring connection is incorrect or wiring is damaged	Replace the wiring if it is damaged. Reinstall the wiring if it is not correct.
The main unit fails to connect with PC	1.USB cable is not well connected with the main unit and computer	Check if USB cable is connected with the main unit and computer.
	2.USB driver programming is not installed properly	Check if USB driver programming is installed
	3.The PC software is not active	Make sure if the PC software is active.
	4. The motherboard is damaged	Replace the motherboard

Exploded view & Parts List

Main unit instruction:



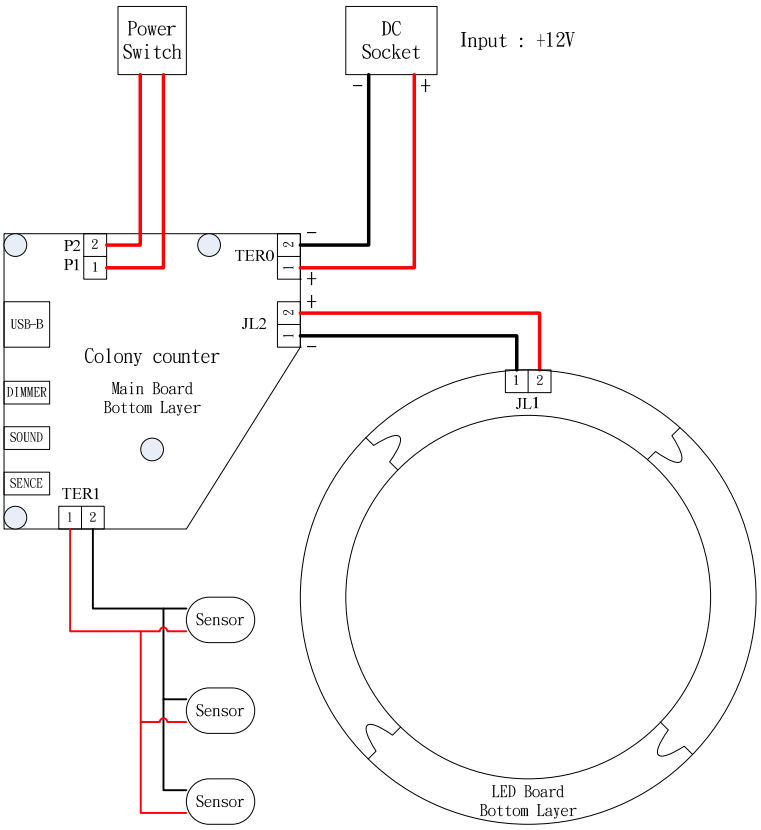
Item	Description	Item	Description
1	Power socket	8	Petri dish holder (60mm)
2	Power switch	9	Adjustable Petri dish holder (90~150mm)
3	Control panel	10	Background plate
4	Magnifier holder	11	Pressure sensitivity regulator
5	Adjustable screw	12	Acoustic counting signal regulator
6	Magnifier	13	Light intensity regulator
7	Petri dish position	14	USB connecting port



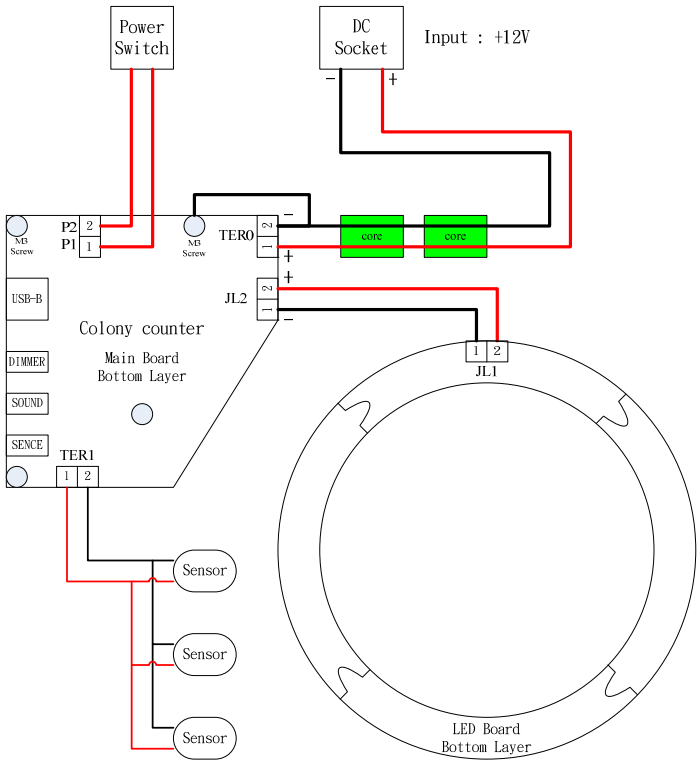
Item	Description
1	Counter panel (LED-A)
2	Value panel (LED-B)
3	Value panel (LED-C)
4	Value panel (LED-D)
5	Enter / Down button
6	Average / Up button
7	Minus / Leave button
8	Clear button
9	USB connection light (Green-Work, Red-Error)

Circuit Diagram:

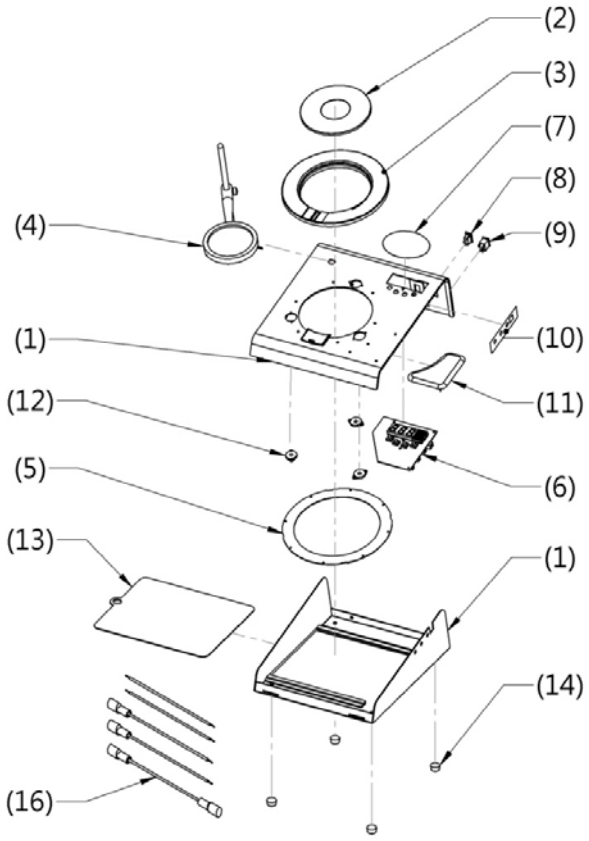
New Version:



Old Vision:

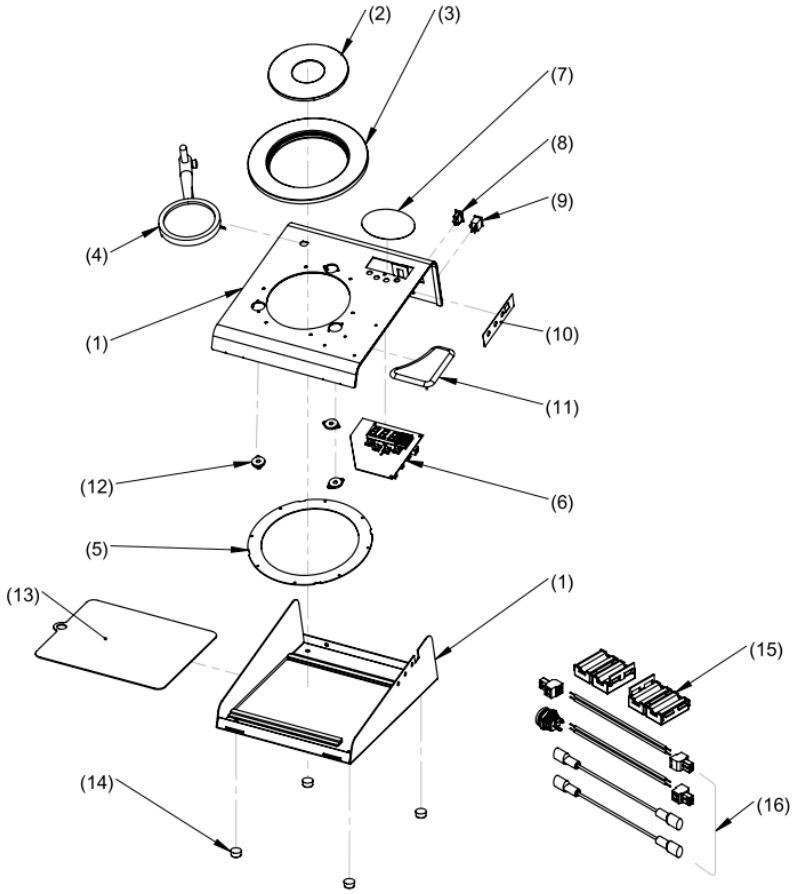


Parts List: (New)



Index No.	Part No.	Description	Q'ty
1	175330-21	Housing	1
2	175330-09	Petri dish holder (60mm)	1
3	175200-32	Adjustable Petri dish holder	1
4	175200-36	Magnifier	1
5	175330-28	LED backlight	1
6	175330-27	Galaxy 330 motherboard	1
7	175330-A	Name Plate	1
8	175330-33	Power socket	1
9	175200-44	Power switch	1
10	175330-25	Functional sticker	1
11	175330-24	Silicone pad	1
12	175200-10	Pressure sensor	3
13	175330-31	Background plate	1
14	179100-35	Rubber cushion	4
16	175330-50	Wiring set	1

Parts List: (Old)



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9	175200-44	Power switch	1
10	175330-25	Functional sticker	1
11	175330-24	Silicone pad	1
12	175200-10	Pressure sensor	3
13	175330-31	Background plate	1
14	179100-35	Rubber cushion	4
15	175330-32	Core	2
16		Wiring set	1

Service Video Links

New version

Model No.	Subject	Video Link
Galaxy 330	Disassembly	https://drive.google.com/file/d/1yjGAkNOevdTv_ta9wrDTffw-Y-W5cKW3/view?usp=sharing
Galaxy 330	Assembly	https://drive.google.com/file/d/1TxbpTvyIy_KTqEFNXTuA6VWnDd-85XQm/view?usp=sharing

Old version

Model No.	Subject	Video Link
Galaxy 330	Disassembly	https://drive.google.com/file/d/12Nzkw1VZHSVtPpt9cy0KApTlmooxkcwz/view?usp=sharing
Galaxy 330	Assembly	https://drive.google.com/file/d/1vnleD4LINQUU6XKqtvRmAb4HsXZKIvEX/view?usp=sharing