

Z-3190BT Plus

Wireless Gun Type Handheld CCD Scanner



Service Guide

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	Jan. 31, 2025	Initial release

Preface

Important Notice

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. We are not liable for any errors contained herein or incidental or consequential damages in connection with furnishing, performance or use of this material.

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We have taken reasonable measures to provide information in this manual that is complete and accurate. However, the material in this guide is for information only; we reserve the right to make changes in product design without reservation and without prior notification. For the latest revision please contact your distributor.

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Radio Notice

This equipment generates uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

Radio and Television Interference

Operation of this equipment in a residential area can cause interference to radio or television reception. This can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the device with respect to the receiver.
- Move the device away from the receiver.
- Plug the device into a different outlet so that the device and the receiver are on different branch circuits.

If necessary the user may consult the manufacturer, and authorized dealer, or experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402 U.S.A., Stock No. 004000003454.

Laser Safety

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of FCC Rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

Radiant Energy: The laser scanner uses one low-power visible laser diodes operating at 650nm in an opto-mechanical scanner resulting in less than 3.9μW radiated power as observed through a 7mm aperture and averaged over 10 seconds.

Do not attempt to remove the protective housing of the scanner, as unscanned laser light with a peak output up to 0.8mW would be accessible inside.

Laser Light Viewing: The scan window is the only aperture through which laser light may be observed from this product. A failure of the scanner engine, while the laser diode continues to emit a laser beam, may cause emission levels to exceed those for safe operation. The scanner has safeguards to prevent this occurrence. If, however, a stationary laser beam is emitted, the failing scanner should be disconnected from its power source immediately.

Adjustments: Do not attempt any adjustments or alteration of this product. Do not remove the protective housing of the scanner. There are no user-serviceable parts inside.

Optical: The use of optical instruments with this product will increase the eye hazard. Optical instruments include binoculars, magnifying glasses, and microscopes but do not include normal eye glasses worn by the user.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

For CE-Countries

This scanner is in conformity with CE standards. Please note that an approved, CE-marked power supply unit should be used in order to maintain CE conformance.

This manual is in A4 format. Please check your printer setting before printing it out.
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Power Supply

- Use only the type of battery and the charging equipments that came with your scanner.
- Using any other type of battery and charging equipment may damage the scanner and invalidate the warranty.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.
- Remove the battery if the scanner is not going to be used for a long time. If the battery is left unused for more than 3 months, you need to charge the battery before use.



WARNING

Improper assembly/disassembly may result in performance degradation to the wireless and other functions of the scanner. Use this service guide at your own risk. We do not guarantee or warranty the timeliness, completeness, or performance of the information provided in this service guide.

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Scanner Parts

The scanner includes the following parts:



NO.	P/N	Name	Quantity
1	863-319000-205	Handle Upper Cover	1
	510-331900-014	Z-319X LOGO (ZEBEX)	1
	602-2SSHC0-681	Central Lens Bracket Reflector Pressed Rubber - Rear	4
2	863-190BT0-702	Handle Base (For Repair)	1
3	564-031900-362	Handle Base - Button Switch Post	1
4	684-100000-542	Dust Cover	1
5	863-190BT0-701	Handle PCB Semi-Finished (For Repair)	1
6	863-19FBT2-502	CCD Engine	1
7	564-031900-412	Buzzer Acoustic Sleeve	1
8	521-614000-015	Self-Tapping Screw M3-15.0mm, Round Head, Torx	2
9	644-7319X0-000	Mylar Tape	2
10	031-007016-002	0.5*16*70*T1 4/4 6/6	1
11	603-031900-581	Button Seal Rubber	1
12	863-190BT0-300	Handle Bottom Cover Semi-Finished	1
13	521-004000-8R0	Self-Tapping Screw, M3-8.0mm, Round Head, Phillips	2
14	613-190BT1-201	Module Board PCBA Assembly	1
15	560-131901-524	Trigger Button	1
16	521-003000-6R0	Self-Tapping Screw, M2-6.0mm, Round Head, Phillips	4
17	521-003000-8R0	Self-Tapping Screw, M2-8.0mm, Round Head, Phillips	3
18	191-932004-20L	Battery 18650	1

Take Apart Before You Start

Important Instructions

- Read these instructions completely before you begin.
- Follow all instructions.
- Heed all warnings.

Tools to Prepare

- Philips screwdriver.

Please follow these steps to take apart the scanner.

1. Remove the screws from the scanner.



2. Remove the top cover and dust cover from the scanner.



3. Unscrew the screws pointed by red arrow.



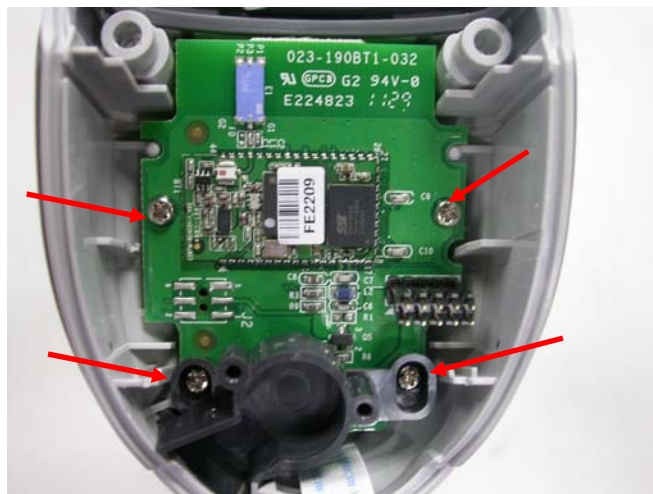
4. Remove the battery cover and the battery.



5. Remove the mylar tape and the FCC cable. Then remove the main board.



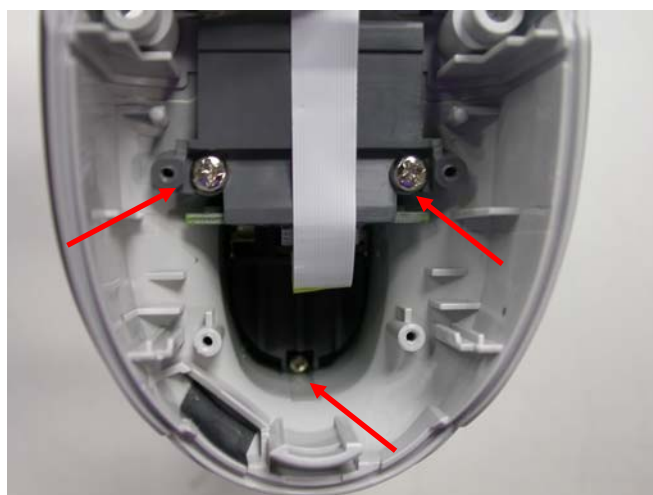
6. Remove the screws pointed by red arrows.



7. Separate handle base, battery power/charge board assembly from the buzzer sound guide panel.



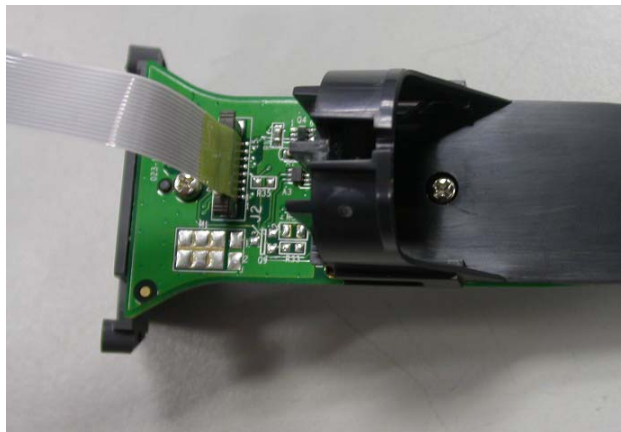
8. Remove the screws pointed by red arrows.



9. Separate the baseplate assembly and the button.



10. Remove the screws pointed by red arrows.



11. Separate button sealing rubber, base plate, button support, and FFC cable.

