

EN ExitPoint® XL500 Through-Hole Drill Guide

BEFORE YOU BEGIN

THIS TOOL WORKS BY DETECTING A HIGH-POWERED MAGNET ON THE OTHER SIDE OF A WALL. IT DOES NOT DETECT STUDS, PIPES, OR ELECTRICAL WIRES. **USE OTHER TOOLS TO DETECT STUDS, PIPES, OR ELECTRICAL WIRES BEFORE DRILLING.**

- Always use a new 9V alkaline battery with an extended expiration date, at least 3 years beyond the current date. Match the direction of the battery to the clip connector inside the battery cavity.
- Before drilling, use a Zircon® stud finder to scan for studs and other materials at several different heights on the wall and mark the location of every target indicated by the scanner. This is called "mapping the wall." Pipes and other objects will likely not give consistent readings from floor to ceiling like a stud will.
- Readings should always be consistent and repeatable.
- Materials more than 9" (22.9 cm) thick may be too thick to scan through.

WARNING

- **Do not assume there are no live electrical wires in the wall. Do not take actions that could be dangerous if the wall contains a live electrical wire. Always turn off the electrical, gas, and water supplies before penetrating a surface. Failure to follow these instructions may result in electric shock, fire, and/or serious injury or property damage.**
- **This tool does NOT detect hidden objects behind a surface. You must use other information sources to locate, and avoid, objects behind a surface before drilling.**
- **Keep magnets away from children, pacemakers, medical, and other electronic devices.**
- **Fingers can get severely pinched between two attracting magnets.**
- **Do not dismantle magnet housings. Magnets can peel, crack, or shatter if allowed to slam together.**
- **Do not expose magnets to magnetic media and other electronics. The strong magnetic fields can damage these items.**
- **Keep magnets away from heat and fire.**

TROUBLESHOOTING & CONSTRUCTION TIPS

SITUATION	LIKELY CAUSE	SOLUTION
<ul style="list-style-type: none"> Receiver does not power on or powers off immediately. Receiver keeps recalibrating or indicating calibration error. Ready Indicator is red. 	Battery level too low for proper operation.	Replace with brand new 9V alkaline battery.
Solid red Directional Indicator LEDs flicker when Receiver is believed to be over Target Magnet.	Receiver needs to be recalibrated.	Move receiver away from suspected target location, recalibrate, then restart search for Target Magnet.
	Target Magnet is oriented with yellow side towards wall or target is too far away.	Orient Target Magnet with yellow side away from wall.
Directional Indicator LEDs continue to flicker after several recalibration attempts.	Receiver is unable to locate Target Magnet in this particular location.	Change to DeepScan® Mode (Large Target Magnet) and rescan for Target Magnet.
Unable to locate Target Magnet.	Target magnet is oriented with yellow side facing wall.	Orient Target Magnet away from wall with yellow side facing out.
	Receiver is within approximately 1" (25 mm) of Target Magnet.	If Receiver is too close to Target Magnet, magnetic lines wrap around magnet. Move Receiver further away from Target Magnet and rescan.
	Target Magnet distance exceeds scan mode specifications.	Check scan depth, Target Magnet size, and scan mode.

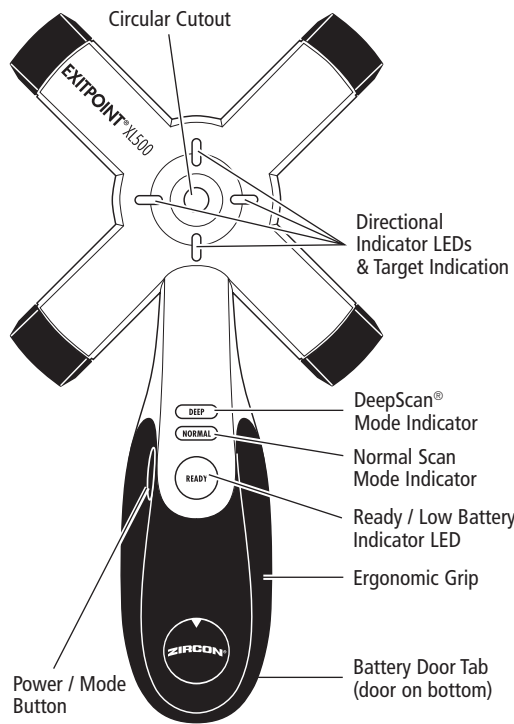
DISPLAY	INDICATES
Normal Scan Mode Indicator LED is illuminated.	Tool is in Normal Scan Mode. Use Small Target Magnet marked ▲.
DeepScan® Mode Indicator LED is illuminated.	Tool is in DeepScan® Mode. Use Large Target Magnet marked ▲.
Amber Directional Indicator LEDs flash in clockwise circular motion.	Tool is calibrating. Wait for it to finish before scanning.
All LEDs on for approximately 1 second. A short beep sounds.	Calibration is complete. Receiver is ready to scan.
Red LEDs flash.	<ul style="list-style-type: none"> Target Magnet detected, but not yet located. Detection of stray magnetic fields in DeepScan® Mode.
Red LEDs on.	Target is located.
Amber top and bottom LEDs flash alternately with left and right LEDs.	Calibration error. Recalibrate again.

Visit www.zircon.com for the most current instructions.



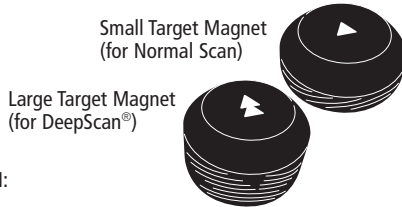
FCC Part 15 Class B Registration Warning: This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

HANDHELD RECEIVER



MAGNETS

- *▲ and ▲ = South Pole
- *Yellow side = North Pole



NOT SHOWN:

- 9V battery
- Reusable adhesive disks (9)
- Protective case for storage and carrying

The Zircon® ExitPoint® XL500 is designed to detect exit points through walls before drilling and coring. It operates in one of two modes:

- **Normal Scan** is optimized for interior walls with ½" (1.3 cm) drywall on both sides, up to 4½" (11.4 cm) thick
- **DeepScan®** is for use with thicker walls, up to 9" (22.9 cm)

NOTE: Accuracy will be impacted unless instructions are carefully followed.

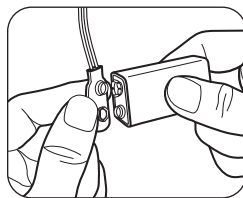
Detection depth can vary due to wall material and construction.

INSTALL 9-VOLT BATTERY

Install 9V battery, as shown.

Always use a new 9V alkaline battery with an extended expiration date at least 3 years beyond the current date.

Be sure not to pull on wires when disconnecting an old battery.



POWER UP

To activate Receiver, press the Power / Mode Button. Lights will flash as tool automatically calibrates, then a beep will sound, and the Ready Indicator LED will light green to indicate the device is ready for use.

A calibration error is indicated by top and bottom Directional Indicator LEDs flashing alternately with left and right LEDs. Move the Receiver away from the suspected location of the Target Magnet and recalibrate.

POWER DOWN

To power down, press and hold Power / Mode Button for 2 seconds. Lights will turn off.

Tool will also automatically power down 3 minutes after last calibration.

USE NORMAL SCAN MODE

The Receiver powers up in Normal Scan Mode, as indicated by the Normal Scan Mode Indicator light. Always use the Small Target Magnet when scanning in this mode. (Figure A)

1. Determine where the drill exit hole should be. Clean the surface of any dust or oils, and make sure the surface is dry.

Remove the protective plastic from both sides of an adhesive disk, then use the disk to affix the Small Target Magnet to the spot, with the yellow side facing away from wall. (Figure B)

NOTE: Do not discard the protective plastic covers for a disk. The disk can be reused if covered again and stored after use.

2. Hold the Receiver with thumb on one side and fingers on the other. Place the Receiver flat against the opposite surface from the Target Magnet, but in an area not likely to be over it.

3. Power up the Receiver and let it calibrate until all LEDs turn on for approximately 1 second.

4. Move the Receiver horizontally or vertically. The amber Directional Indicator LEDs will point toward the target. When the Receiver is near the Target Magnet, all of the Directional Indicator LEDs will light red. Mark the spot with a pencil through the Circular Cutout. (Figure C)

NOTE: If the unit indicates a large target area, refine the scan to more accurately find the target location.

REFINE NORMAL SCAN MODE

1. Repeat steps 1 – 3 under USE NORMAL SCAN MODE.
2. Move the Receiver horizontally. The amber Directional Indicator LEDs will point toward the target. When the Receiver is near the Target Magnet, all of the Directional Indicator LEDs will light red. Mark the spot with a pencil through the Circular Cutout. (Figure C)

3. Continue scanning in the same direction until the Directional Indicator LEDs until the Directional Indicator LEDs revert to amber, then reverse direction. Mark the location where all of the Directional Indicator LEDs light red. The approximate midpoint of the target is between the two marks. (Figure D)

4. Without recalibrating, move the Receiver to the midpoint, then scan vertically until the top and bottom limits are marked. The center of the Target Magnet should be the midpoint between the top and bottom marks. (Figure E)

USE DEEPSCAN® MODE

DeepScan® Mode scans up to 9" (22.9 cm) thick.

For DeepScan®, always use the Large Target Magnet. (Figure F)

1. Determine where the drill exit hole should be. Affix the Large Target Magnet to the spot with a reusable adhesive disk, yellow side facing away from wall.

2. Power up Receiver, then double press Power / Mode Button to switch to DeepScan® Mode. The DeepScan® Mode Indicator light will illuminate.

3. Move the Receiver horizontally or vertically. The amber Directional Indicator LEDs will point toward the target. When the Receiver is near the Target Magnet, all of the Directional Indicator LEDs will light red. Mark the spot with a pencil through the Circular Cutout. (Figure C)

NOTE: If the unit indicates a large target area, refine the scan to more accurately find the target location.

REFINE DEEPSCAN® MODE

While in DeepScan® mode, refer to REFINE NORMAL SCAN MODE steps 2 – 4.

STORING REUSABLE ADHESIVE DISKS

This tool comes with 9 double-sided, reusable adhesive disks. With repetitive use or exposure to dust particles, disks may lose stickiness. Gently wash with soapy water, rinse, air dry, and reuse.

The disks can be stored in the case.

To order more reusable adhesive disks, email techsupport@zircon.com.

MAGNET SAFETY WARNINGS

The ExitPoint® XL500 magnets are very strong and are more powerful than other kinds of magnets. **HANDLE WITH CARE TO AVOID PERSONAL INJURY OR DAMAGE TO THE MAGNETS.** Fingers and other body parts can be pinched between two magnets.

1. **KEEP MAGNETS AWAY FROM CHILDREN.** The ExitPoint® XL500 magnets are not toys. Children should not be allowed to handle these magnets.

2. **EXITPOINT® XL500 MAGNETS CAN AFFECT PACEMAKERS.** The strong magnetic fields near these magnets may affect pacemakers, implanted cardioverter defibrillators, and other medical devices. Many of these devices employ a feature that deactivates them with a magnetic field. Therefore, **EXTREME care must be taken to avoid inadvertently deactivating such devices.**

3. **EXITPOINT® XL500 MAGNETS ARE BRITTLE.**

Despite being made of metal and covered in rubber and plastic, these magnets are not as durable as steel and should be handled with care.

4. **DO NOT REMOVE COVERING.** These magnets can peel, chip, crack, or shatter if allowed to slam together. Eye protection should be worn since shattering magnets can launch small pieces at great speeds.

4. **MAGNETS CAN AFFECT MAGNETIC MEDIA.**

The strong magnetic fields near these magnets can damage magnetic media such as floppy disks, credit cards, magnetic I.D. cards, cassette tapes, video tapes, or other such devices. They can also damage wireless phones, televisions, VCRs, computer monitors, and CRT displays. **DO NOT PLACE magnets near electronic appliances.**

5. **MAGNETS MAY BECOME DEMAGNETIZED AT HIGH TEMPERATURES. DO NOT EXCEED 175°F (80°C).**

LIMITED LIFETIME WARRANTY

Zircon Corporation ("Zircon") warrants to the original purchaser (or original user by gift) that this product will be free from defects in materials and workmanship for its useful life (not to exceed twenty years from date of purchase). This warranty is limited to the electronic circuitry of the product, and specifically excludes consumable parts, including batteries, and software, even if packaged with the product. Defects caused by abuse, modification, handling contrary to these instructions, other unreasonable use, or neglect are not covered under this warranty. No liability is accepted for normal wear and tear and minor defects which do not detract from the function of the product.

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6. MAGNET POWDER OR DUST IS FLAMMABLE.

Avoid drilling or machining these magnets. When ground into a dust or powder, this material is highly flammable.

DO NOT DRILL OR MACHINE.

7. **THOSE WITH NICKEL ALLERGIES SHOULD AVOID PROLONGED CONTACT WITH UNCOVERED MAGNETS.** If you have a nickel allergy, avoid directly handling these uncovered magnets.

8. **STRONG MAGNETIC FIELDS CAN INTERFERE WITH COMPASSES AND NAVIGATION.** IATA (International Air Transport Association) and US Federal rules and regulations cover shipping magnets by air and ground delivery. Magnetic fields can influence compasses, magnetometers used in air transport, and internal compasses of smartphone and GPS devices.

9. **THESE MAGNETS CAN CORRODE.** These magnets are not waterproof. If used underwater, outdoors, or in a moist environment, they can rust, corrode, and lose magnetic strength.

Any defective product returned to Zircon, freight prepaid, along with dated purchase receipt and \$10.00 to cover shipping and handling, will be repaired or replaced, at Zircon's option. If the returned product is no longer available, Zircon may replace the product with a similar product of similar function. This is your sole and exclusive remedy for breach of this Limited Lifetime Warranty. To return product, call the Zircon Customer Service number below to request an RMA number and return product with shipment tracking to:

Zircon Corporation
Attn: Returns Department
1580 Dell Avenue
Campbell, CA 95008-6992 USA

Include your name, return address, RMA number, and package tracking number. Allow 4 to 6 weeks for delivery. If you do not agree to the terms of this Limited Lifetime Warranty, you may not use this product and must promptly return it to the retailer, along with a dated purchase receipt within 30 days of purchase for a refund of the purchase price.

Customer Service: 1-800-245-9265 or 1-408-963-4550
Monday–Friday, 8:00 A.M.–5:00 P.M. PT
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