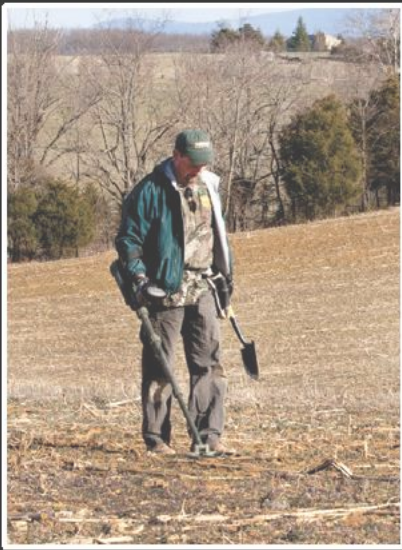


# ATX™

**EXTREME  
PULSE  
INDUCTION**



*Highly Refined Pulse Induction Technology*

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**GARRETT**  
METAL DETECTORS  
[www.garrett.com](http://www.garrett.com)



**GARRETT**  
METAL DETECTORS  
[www.garrett.com](http://www.garrett.com)

*Owner's Manual*

## THANK YOU FOR CHOOSING GARRETT METAL DETECTORS!

Your new Garrett *ATX*™ is a highly advanced pulse induction detector that is backed by 50 years of extensive research and development. It was specifically designed to overcome the most challenging prospecting and relic hunting environments including extremely mineralized soils and saltwater environments.

Although the *ATX* was designed for the extreme needs of gold prospectors, it is a highly capable instrument for many other types of searching. Its ability to overcome mineralized soils, salts and mineralized stones, bricks, terra cotta, creates numerous opportunities for industrial use, historical archaeology, etc. game wardens (detection of poachers' bullets), etc.

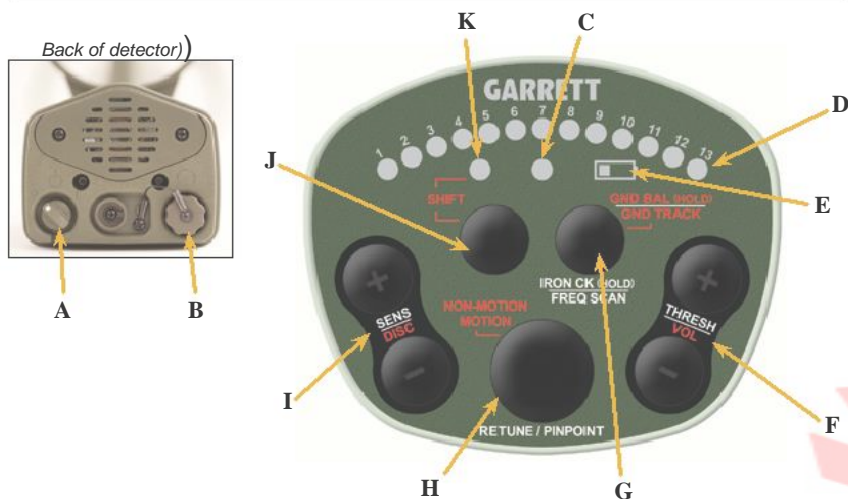
Relic hunters who encounter areas of highly mineralized ground will benefit from detection depths not available from conventional detectors. The optional Deepseeker searchcoil is ideal for use in searching for caches and other deeply buried large objects.

In order to take full advantage of the special features and functions of the *ATX*, you are urged to carefully read this instruction manual in its entirety.

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## CONTROLS/QUICK START GUIDE



Garrett recommends that all new ATX owners completely read and understand the entire manual before using this detector. This section is only intended as a reminder.

Switch ATX on and check batteries..<sup>1</sup>

Four audio beeps indicates fully-charged batteries.

Set to preferred Mode, usually Motion Mode.<sup>2</sup>

Set Discrimination to preferred level, usually to minimum (1 LED).<sup>3</sup>

Set Sensitivity, Threshold and Volume to preferred levels.<sup>4</sup>

Perform Frequency Scan, if needed, to eliminate electrical interference.<sup>5</sup>

Perform Ground Balance to eliminate ground response and to ensure maximum detection.<sup>6</sup>

Begin searching..<sup>7</sup>

Sweep searchcoil parallel to—and less than 1 inch from—the ground, scanning coil from side to side at a speed of about 2 feet/second (60cm/sec). See p. 42.

All settings are saved at Power OFF. Therefore, once you have selected your preferred. Note you only need to perform Frequency Scan and Ground Balance, if needed, before, settings starting to search.

## ATX CONTROLS

دکمه های سفید یا تنظیمات اولیه

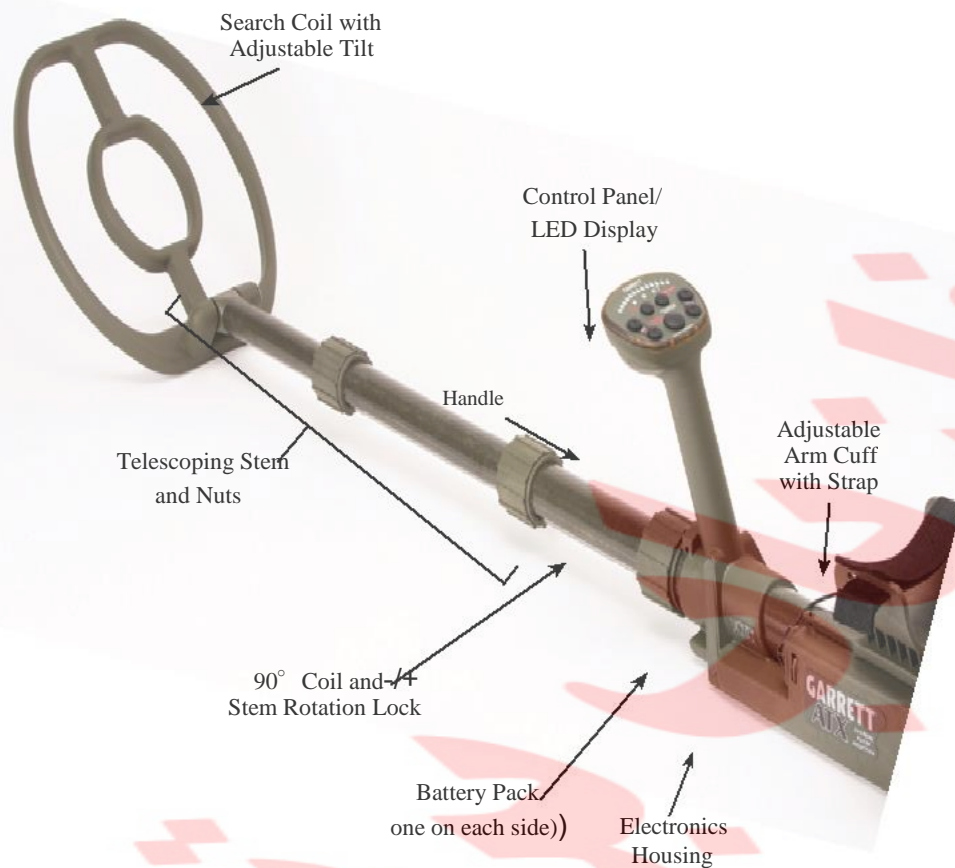
(White-text functions controlled directly by buttons))

- :A **Power Switch ON/OFF:** دکمه خاموش و روشن
- :B **Headphone Connector** محل جای گذاری هدفون.
- :C **Power ON Indicator** چراغ چشمک زن حالت روشن.
- :D **Signal Strength Indicator** چراغ سیگنال حداکثر
- :E **Low Battery Indicator** چراغ هشدار اتمام باتری
- :F **Threshold ( +, - )** سر حد صداهای هدف
- :G **Scan (Quick Press).Freq** بررسی وجود آهن با نگه داشتن دکمه
- :G **Iron Check (Hold Down)** بازگشت به حالت تنظیمات کارخانه با فشار سریع دکمه
- :H **Retune (Quick Press)** نقطه یابی دقیق با نگه داشتن دکمه
- :H **Pinpoint (Hold Down)** حساسیت
- :H **Factory Reset:H+A**
- :I **Sensitivity ( +, - )**

## دکمه های قرمز یا تنظیمات ثانویه

- :J **Shift Button** دکمه تغییر
- :J **Shift Indicator** چراغ روشن شدن دکمه تغییر
- :J+F **Volume (+,-):J+F** ولوم صدا
- :J+G **Ground Track (Quick Press) P:J+G** مسیر یابی یا کاوش زمین با فشار دادن یکبار
- :J+G **Ground Balance (Hold):J+G** بالانس زمین با نگه داشتن دکمه
- :J+H **Non-Motion/Motion Mode:J+H** حالت حرکتی و غیر حرکتی
- :J+I **Discrimination (+,-):J+I** تفکیک

## ATX COMPONENTS



## LIST OF PARTS

No tools are required to assemble the ATX. Eight (8) AA batteries are included with the detector. The box for your detector contains the following parts:

- ☐ Detector with alkaline batteries
  - ☐ Soft carry case
  - ☐ Headphones
  - ☐ Coils (shown installed)
  - ☐ User's manual
  - ☐ Battery charger kit with eight rechargeable batteries
  - ☐ Garrett detector sling
- Accessory items subject to change.*

If any part is missing, please contact your local dealer.



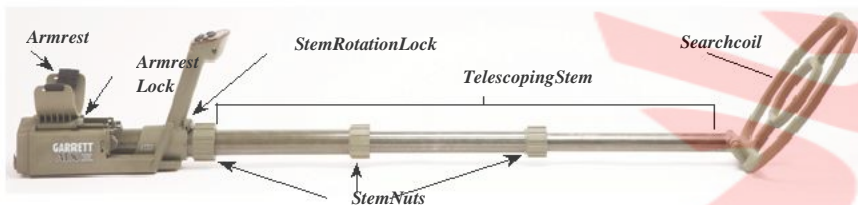
## EQUIPMENT SETUP

Adjusting the searchcoil and stem:

Fold open the searchcoil. Disengage the armrest and stem rotation locks to allow stem to rotate. Rotate the stem and searchcoil to level and release the spring-loaded rotation lock to allow it to automatically reengage. The searchcoil can also be locked at 90° to the left or right for scanning walls and embankments. When the searchcoil is locked in your preferred orientation, reengage the armrest lock.

The ATX can be operated with the stems fully collapsed (preferred for shallow diving), fully extended, or anywhere in between. To extend the telescopic stem to the desired operating length, begin by loosening the bottom stem nut closest to the search coil. Fully extend the bottom stem and tighten the bottom stem nut. Then, loosen the middle stem nut, extend the middle and tighten the nut. The upper stem should be used for final adjustments to the desired operating length.

The correct operating length should allow you to stand upright (no stooping forward) and swing the coil in front of you without stretching or bending.



Adjusting the armrest:

To move the armrest forward or backward, open the armrest locking lever, slide the armrest to the desired position, and lock the lever.



Armrest locking lever shown in open position. Armrest locking lever shown in locked position.

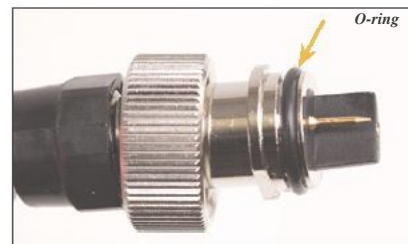
برای تنظیم کردن لوپ با سطح زمین آنرا با یک پیچ گوشتی و یا یک سکه میتوانید به اندازه دلخواه با توجه به شکل زیر این کار را انجام دهید.



Attaching the headphones (if desired):

Remove the dust cap from the headphone connector on the back panel. Ensure the headphone connector is clean. Align the headphone plug with the connector pins in the proper orientation. If the detector will be submerged, be sure to lubricate the O-ring on the connector with silicone grease.

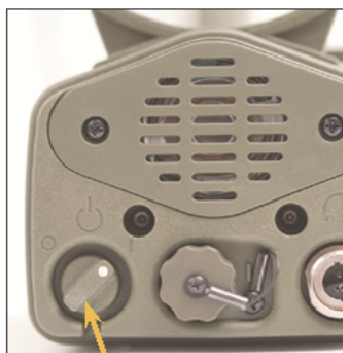
Fully insert the connector until it snaps snugly into place. Slide the metal locking collar onto the threads and tighten by hand. DO NOT over tighten.



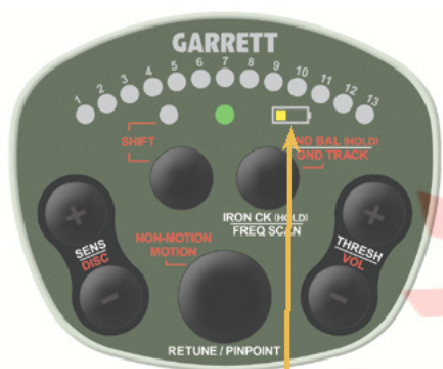
Lubricate O-ring for underwater operation.



Hand-tighten connector collar.



سوئیچ روشن و خاموش



هشدار دهنده اتمام باتری

فوراً بعد از روشن کردن دستگاه منتظر ۴ بوق باشید. ۴ بوق برابر است با شارژ کامل و ۳ بوق تقریباً ۷۵ درصد و ۲ بوق ۵۰ درصد و با شنیدن یک بوق به شما هشدار میدهد که باتری را تعویض نمایید

این دستگاه نسبت به هدفهای کوچک و بزرگ واکنشهای صدایی قوی و ضعیف از خود نشان میدهد. که با آن میتوانید اندازه و شکل و عمق هدف را بهتر شناسایی کنید.

در حالت حرکتی : لوپ شما باید در حال حرکت باشد تا واکنش نشان دهد.

فلزات با رسانایی ضعیف همانند تیکه طلاهای کوچک و بیشتر جواهر آلات و نیکل و مفرغ کوچک و سکه هایی که با دست ساخته شده اند باید تولید کنند یک صدای ضعیف که تکرار خواهد شد و در آخر یک صدای قوی تولید خواهد کرد.

## تفکیک

در زمینهایی که مواد معدنی بسیار زیاد دارد حالت حرکتی نمیتوانید به شما در حذف سیگنالهای اضافی زمین کمک کند.

۵ چراغ ثابت حالت  
غیر حرکتی را نشان  
میدهند



ردیابی غیر حرکتی : در جاهایی که شما فضای کمتری برای کاوش دارید میتوانید از این حالت هم برای عمق بیشتر و کاوش آهسته تر حتی ثابت بر روی هدف استفاده کنید.

این دست قادر است انواع و اندازه های هدفهای خاصی را که هنوز در حال ردیابی هدفهای دیگر هستید را رد یا کاوش کند. این دستگاه دارای ۲۵ سطوح تفکیک است. که تفکیک پیشفرض آن صفر است که همان چراغ شماره ۱ است.

تنظیمات تفکیک :

-دکمه شیفت را یکبار فشار دهید تا وارد مرحله تنظیمات ثانویه شوید.

-از دکمه های مثبت و منفی تفکیک (DISC) برای تنظیمات مورد استفاده خود استفاده کنید.

شما میتوانید بر روی این دستگاه سه نوع تفکیک را مشاهده کنید. چراغ شماره ۱-۵ و ۱۳ که نهایت تفکیک شماست. و برای بازگشت به حالت اولیه دکمه شیفت را یکبار فشار دهید. مراقب دکمه شیفت باشید که در هنگام استفاده از این گزینه باید روشن باشد.

این حالت تفکیک حالت دوم را نشان میدهد



هر چه تفکیک را افزایش دهیم دستگاه هدفهایی که رسانایی ضعیفتری دارند مانند آب شور ، نیکل و همینطور هدفهای نازک و کوچک همانند سکه های کوچک ، فویل و طلا و جواهرات کوچک را ردیابی نخواهد کرد. هدفهای آهنی خیلی بزرگ آخرین هدفی هستند که تفکیک خواهند شد. پس بنابراین به شما توصیه میشود با تفکیک پیشفرض اولیه کاوش کنید.

## حد آستانه شنیداری THERSHOLD

صدای پس زمینه دستگاه میباشد و ۲۵ سطح تنظیم حد آستانه داریم. که سطح شماره ۷ تنظیمات پیش فرض کارخانه میباشد. برای تنظیم کردن حد آستانه از دکمه های مثبت و منفی THRESH در سطح دلخواه میتوانیم استفاده کنیم.



چراغ نشان دهنده

تنظیم پیش فرض

کارخانه

بوسیله این دکمه ها مقدار حد

آستانه را تغییر دهید

## VOLUME ولوم

برای استفاده از این گزینه دکمه شیفت را فشار دهید تا وارد مرحله ثانویه شوید و برای تنظیم مورد نظر خود از آن استفاده کنید. دکمه شیفت را دوباره بزنید تا از آن خارج شوید.

## حساسیت

در این حالت شما میتوانید هم عمق بیشتر و هم هدفهای کوچکتری را ردیابی نمایید. اما مراقب باشید که با افزایش دادن حساسیت وسیله خود را در معرض شوکهای الکتریکی قرار دهید. در این دستگاه ۱۳ حالت برای تنظیمات حساسیت داریم. که حساسیت شماره ۱۰ حالت پیشفرض کارخانه میباشد. که میتوانید برای تنظیم بالا و پایین آوردن حساسیت از حروف سفید (SENS) استفاده نمایید. از حساسیت پایینتر برای کاوش در زمینهای با آلودگی بالا و ابزارهای الکترونیکی استفاده کنید.



با تغییر حساسیت تغییر مکان

چراغ را مشاهده میکنید

با فشار این

دکمه ها

حساسیت را

تغییر دهید



## Grand Balance بالانس زمین

در محیطهای مختلف چه خاکی و چه سنگی شما باید دستگاه را طبق شرایط آن منطقه بالانس کنید. خاک شور، خاک با مواد معدنی بالا و سنگهای آهنی .....

نحوه بالانس کردن :

ابتدا یک منطقه پاک عاری از هرگونه آلودگی فلزی پیدا کنید و لوپ خود را ۱۵ سانتی متر از سطح زمین بالا بیاورید. دکمه شیفتر را فشار دهید تا وارد مرحله ثانویه شوید. دکمه GRAND BALANCE را نگه دارید تا صدای ۲ بوق را بشنوید. در حالی که این دکمه را نگه داشته اید لوپ خود را از فاصله ۱۵ سانتی متری به ۲ سانتی متری زمین نزدیک کرده و این کار را از ۳ تا ۷ ثانیه ادامه دهید تا آلودگیها حذف شوند. دکمه را رها کنید و شروع به کاوش نمایید



## Ground Track ردیابی زمین

در این حالت ۴ نوع ردیابی برای زمین وجود دارد.

۱- خاموش OFF تنظیم پیش فرض کارخانه است. چراغ شماره ۱ می باشد.

۲- آرام SLOW چراغ شماره ۵ می باشد.

۳- متوسط MEDIUM چراغ شماره ۹ می باشد.

۴- سریع FAST چراغ شماره ۱۳ می باشد.

برای تغییر حالت ردیابی زمین دکمه شیفتر را یکبار فشار دهید تا وارد مرحله ثانویه شوید با فشار دادن دکمه GND TRACK میتوانید ۴ حالت متفاوت تنظیم را مشاهده نمایید در حین انتخاب این گزینه ها چراغ سبز بر بروی دستگاه چشمک خواهد زد. برای بازگشت یکبار دکمه شیفتر را فشار دهید



## تنظیم دوباره Retune

با فشار دادن یکبار این دکمه شما تنظیمات خود را به حالت اولیه بازگردانید.



برای بازگشت به حالت اولیه یک بار

این دکمه را فشار دهید

برای نقطه یابی دقیق این دکمه را تا پایان

کار نگه داشته باشید

## نقطه یابی دقیق هدف Pinpoint

با فشار دادن و نگه داشتن این دکمه شما میتوانید محل دقیق هدف را مشخص نمایید.

## جستجوی فرکانسها Frequency Scan

برای از بین بردن فرکانسهای مزاحم همانند فرکانسهای کابلهای برق، دستگاههای نقطه زن دیگر، لامپهای مهتابی که در اطراف ما هستند میتوانیم از این گزینه استفاده کنیم.

نحوه اجرا: لوپ را بصورت ثابت دور از هرگونه آلودگی فلزی نگه دارید و دکمه **FREQ** **SCAN** را یکبار فشار دهید. لوپ را باید حتما بصورت ثابت در این مرحله نگه دارید. این مرحله ۳۵ ثانیه طول میکشد. که با ۳ بوق به اتمام میرسد. و این تنظیم در دستگاه ذخیره خواهد شد.



Press and release the FREQ SCAN while holding searchcoil stationary away from any metal.

## شناسایی آهن Iron Check

برای شناسایی آهن از این گزینه به همراه لوپ DD ۱۲ اینچی استفاده نمایید.

برای استفاده از این گزینه لوپ را نزدیک هدف برده و دکمه **Iron Check** را نگه داشته و منتظر ۲ بوق باشید. همچنان که این دکمه را نگه داشته اید لوپ را سریع از روی هدف عبور دهید. بطوریکه لوپ موازی با سطح زمین باشد. اگر هدف مطلوب باشد با ۹۰ درجه چرخش دوباره این کار را تکرار کنید. اگر آهن باشد یک صدای قزقز تولید خواهد کرد. که ممکن نیست با صدای فلزات با ارزش یکسان باشد. هدفهای ضعیف و غیر آهنی صداهای طبیعی خود را دارند و ممکن است حتی صدایی را تولید نکنند. که کاملا با صدای آهن متفاوت است.



فشار دهید این کمه را و نگه دارید و بروی هدف بروید.

## تنظیمات کارخانه

شما برای برگرداندن به حالت تنظیمات کارخانه دکمه PINPOINT را نگه دارید و سپس دستگاه را روشن کنید.

### ATX FACTORY/DEFAULT SETTINGS

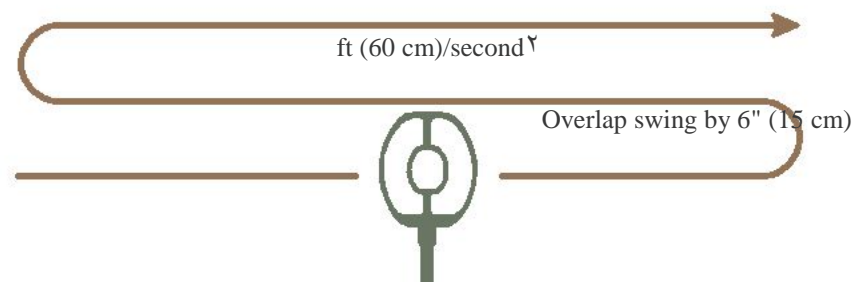
:Mode	Motion
:Discrimination	Zero discrimination (1st LED)
:Sensitivity	۱۰
:Threshold	۷
:Volume	۱۰
Ground Balance:	Neutral
Ground Track:	OFF

## SEARCHCOIL BASICS

لوپ را در انتهای حرکت خود به سمت بالا نکشید بلکه در کل کار باید نسبت به سطح زمین بصورت موازی نگه دارید.



شما میتوانید در یک ثانیه ۶۰ سانتی متر دستگاه را بسمت راست و چپ حرکت دهید. به سمت جلو حرکت کنید به اندازه نصف طول لوپ شما که برابر است ۱۵ سانتی متر.



## PINPOINTING TECHNIQUES

Accurate pinpointing of a target enables you to recover it quickly while also digging the smallest hole possible. Several pinpointing techniques will be offered below; use what works best for you.

To utilize the Pinpoint button:

Place the searchcoil on or near the ground, to the side of the target's suspected location.

Press and hold the PINPOINT button (see illustration on p. 23) and wait for the single beep.

Continue holding the PINPOINT button and sweep the searchcoil over the target area while maintaining the same fixed height above the ground.

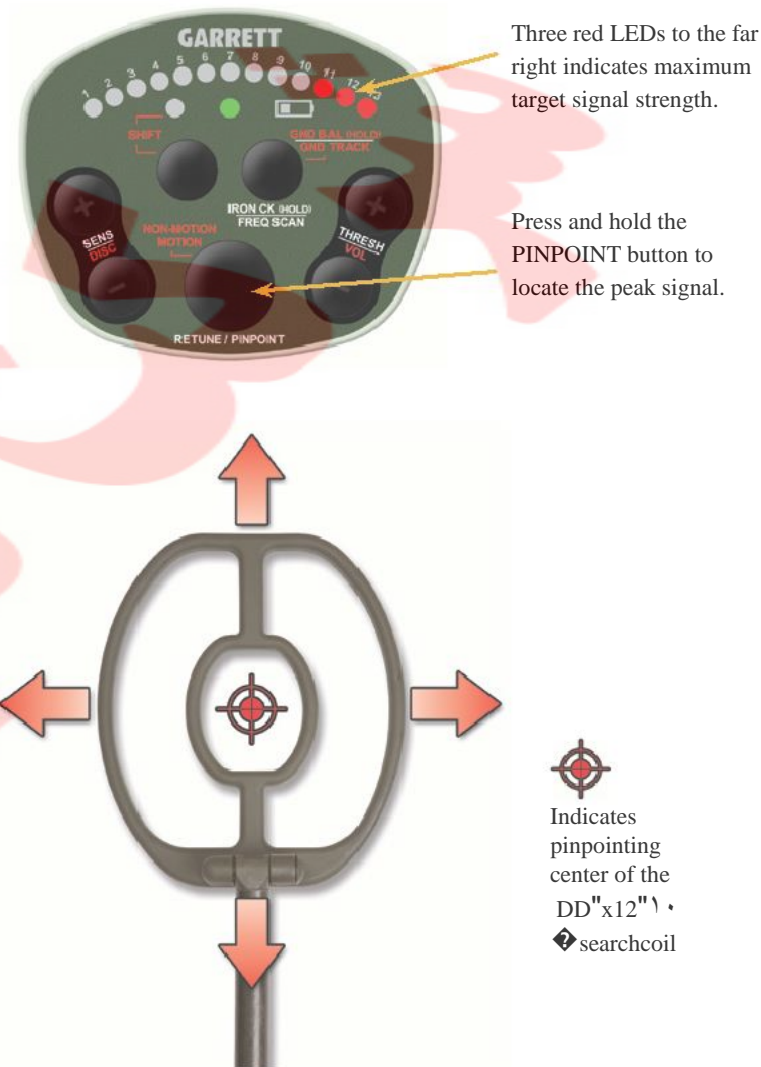
Sweep the coil side-to-side and front-to-back in a crosshair pattern to locate the peak signal, as indicated by the strongest audio and maximum number of LEDs.

The center of the target should be directly beneath the center of the searchcoil.

To locate a target *without* the PINPOINT button, sweep the coil side-to-side and front-to-back in a cross-hair pattern over the target area while listening for the peak signal. In Motion Mode, it is important to keep the searchcoil in motion (i.e. wiggling back and forth) to pinpoint the peak signal area.

In Non-Motion Mode, static pinpointing is possible without the use of the PINPOINT button. Simply utilize the same front-to-back and side-to-side scans over the target area until your coil is over the peak signal, as indicated by the strongest audio and maximum number of LEDs.

For best pinpointing results, maintain a constant coil height above the ground and ensure the detector is properly ground balanced. It is recommended to practice pinpointing in a test plot.



Sweep the searchcoil side-to-side and front-to-back to locate the peak signal at the center of the coil.

## BENCH TESTING

You should conduct bench tests to become more familiar with the ATX's audio signals and operation using different Modes, Discrimination settings, Iron Check, etc. Suggested test items include:

- Various size gold nuggets or gold rings•

- In the absence of gold nuggets, a US nickel or small bronze coin are good imitators of the response characteristics of a similar size

- (nugget

- Coins or relics that you expect to find in your search area•

- Various size iron targets for testing the Iron Check feature•

The ideal position for bench testing with the ATX is illustrated below. Extend the lower stem and lay the searchcoil back on top of the stem. This allows you to keep one hand near the controls while still reaching the coil with your test targets.

It is best to test the detector outdoors away from sources of electrical interference (e.g. power lines, electrical equipment and appliances, fluorescent lights, transmitters). Tests should be performed with the searchcoil completely stationary and several feet away from any large metallic object.



For bench testing, take the ATX outdoors, away from electrical interference and large metallic objects. Extend the first stem and lay the coil back as shown above.

Set up: Start with Factory Default settings (in Motion Mode) and run Frequency Scan to obtain quiet operation. If not sufficiently quiet, move to a different location away from sources of electrical interference.

Basic testing: Begin passing various metallic targets from side-to-side across the bottom of the searchcoil. Pass the targets both near and far from the coil to hear how Proportional Audio works (i.e. loud for strong signals, faint for weak signals).

Tone polarity test: Pass various poor conductors (i.e. small nuggets, small bronze coins, etc.) and good conductors (i.e. large nuggets, nickels, silver coins, etc.) to hear the tone polarity. Poor conductors will produce a High/Low tone and good conductors will produce a Low/High tone.

Discrimination test: After conducting the tone polarity test above, increase Notice how the poor conductors become reduced and Discrimination disappear first from detection while the good conductors are less affected. Test various size iron objects to see the effects of Discrimination levels. Then return to a zero Discrimination setting (1st LED).

Iron Check test: Press and hold the IRON CK button and wait for the double beep before scanning targets. Continue to hold the IRON CK button while quickly scanning your test targets back and forth across the coil.

Notice which iron targets produce the very low-tone growl/grunt sound and at what distances. Notice that many iron targets will create a different response when their orientation is changed. Since the ATX's Iron Check function is conservative to ensure that small/weak good signals are not misidentified as iron, small iron targets may not identify as iron.

Test both ferrous and non-ferrous targets at various depths to become familiar with Iron Check's capabilities and limitations.

Sensitivity test: Increase and decrease Sensitivity to see how detection depth and noise are affected (e.g. higher Sensitivity increases depth and possibly increases noise).

Pinpoint test: Hold a target to the side away from the coil, then press and hold PINPOINT and wait for the single beep. While continuing to hold pass the target side-to-side and front-to-back in a crosshair, PINPOINT pattern and notice the peak response occurs over the center of the coil.

Non-Motion Mode test: Finally, switch to Non-Motion Mode and notice the differences from Motion Mode. In Non-Motion Mode, targets will not produce the audio echo and static detection is provided. This mode, can be noisier than Motion Mode, and more frequent Retunes, however may be required.

## TIPS AND TECHNIQUES

**Scanning walls:** Rotate and lock the searchcoil at 90° to aid with scanning walls, embankments, rock ledges, or high places

**Mind your metal:** The ATX is very sensitive, so be mindful not to let the other metals you carry come too close to the coil (e.g. a pick or shovel, steel-toed boots, etc.)

**Avoiding surface clutter:** You can help eliminate some of the smaller surface clutter by lifting the coil two or three inches above the ground. Larger targets will still be easily detected. This technique is most effective with larger size searchcoils such as the 20" Deepseeker coil.

**Don't cancel a target:** Be careful not to ground balance over a target, as you may effectively eliminate the target in most cases.

**Hot rocks:** Hot rocks are typically highly ferrous, iron-based rocks that are either more or less conductive than the surrounding soil, thereby creating a response that can resemble a target. Because of the ATX's inherent immunity to most normal soil minerals, hot rocks can be eliminated by simply ground balancing to the hot rock instead of ground balancing to the soil.

In extremely mineralized soil, the ATX must be ground balanced to the in which case the hot rock will typically respond with a faint low tone. When in doubt, dig it out.

**Non-uniform soil conditions:** One of the most challenging ground conditions to operate is where the ground contains both conductive and ferrous minerals that are non-uniformly mixed. An example is moist salty soil (conductive) with ironstone veins and/or hot rocks (ferrous) scattered

Obtaining stable operation given these two very differing soil components is difficult at best.

To operate most effectively in this scenario, first locate an area containing only the salty soil (no ferrous veins or hot rocks) and then increase Discrimination until the salt response is sufficiently reduced (a setting of 3 to 7 should suffice). Then locate a ferrous vein or hot rock and Ground Balance to it. In summary, use Discrimination to eliminate



This moistened ancient salt bed, which also contains veins of iron mineralization, is an example of a non-uniform soil condition.

the conductive component and Ground Balance to eliminate the ferrous

Finally, reduce Sensitivity as needed to obtain sufficiently component stable operation.

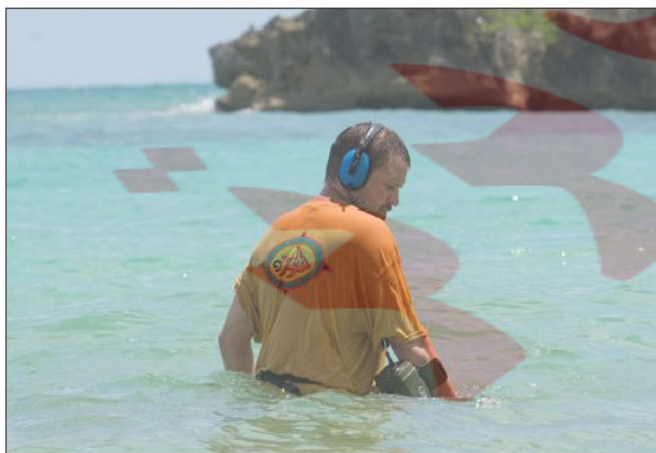
For uniformly mixed soils, such as an ocean beach with ferrous black-sand, simply Ground Balance to the homogenous mixture of salt and sand as would be done for normal ground, without the need to increase Discrimination.

**Disappearing targets:** If a target response disappears as you begin removing the soil, it was likely a pocket of concentrated ground minerals or decomposed iron that was disturbed during digging—thereby eliminating the response.

**Coil covers:** Use a coil cover to protect the coil from abrasion and damage and prevent false responses that may occur when the coil abruptly impacts a rigid object such as a large rock, etc.

## WATER USE

شما میتوانید این دستگاه را تا عمق ۳ متر در داخل آب فرو ببرید. البته بیشتر از این برای کردن به شما توصیه نمیشود چون امکان دارد به دستگاه آسیب برسد و این شامل گارانتی نمیباشد. هدفونی که همراه این دستگاه میباشد برای استفاده در داخل آب نمیباشد. برای این کار شما باید هدفون ضد آب را بصورت جداگانه خریداری نمایید.



Waterproof headphones (sold separately) must be used if the headset is fully submerged

sufficiently eliminated. This method, although effective, can significantly reduce the detection of fine gold, jewelry, and other poor conductors due to the increased Discrimination setting.

to help reduce this undesirable loss of detection, the ATX, Therefore has an alternative method to address saltwater. Specifically, the ATX can automatically ground balance out the saltwater response without the need to increase Discrimination; thereby maintaining a better response to fine jewelry, and other poor conductors, gold.

The two methods to address saltwater are:

Ground Balance Method: Leave Discrimination set to minimum (1) and Ground Balance to the saltwater as would be done for any other

This method will provide the best detection of fine gold, etc, but ground will produce a low-tone response for all targets. It is important to Ground Balance the detector when it moves to a new region of the beach (i.e. from wet sand to dry sand at the water's edge).

Traditional Discrimination Method: Incrementally increase the (2) Discrimination setting until the saltwater response is sufficiently eliminated, typically around 3-7. Ground Balance is not required with this method. This method will maintain normal high and low tone responses, but will have reduced detection of fine gold, etc. Reduce the Discrimination setting toward zero when moving from wet sand to dry.

For either method, the following basic techniques will help to achieve the best performance.

Swing the searchcoil flat and at a constant height. Do not bounce the coil or lift the coil at the end of swings.

Hunt the three different regions of the beach (dry sand, wet sand, one at a time rather than going back and forth between submerged regions. This will allow the detector to be set optimally for each region.

Swing the searchcoil parallel to the water's edge to minimize changes in moisture levels within a given swing.

The detector may become less stable in shallow, breaking surf where the searchcoil is in and out of the saltwater. In this area the detector is encountering a constantly changing environment produced by the surf, making it more difficult for the detector to stabilize. Experiment with the two methods above to determine which you prefer, and if necessary, reduce Sensitivity to obtain stable operation.

## SEARCHCOIL REMOVAL/INSTALLATION

Each ATX searchcoil is permanently attached to its telescoping stem assembly.

To switch to another searchcoil, it is necessary to remove and install the **entire assembly** as described below.

### Searchcoil removal

Fully collapse the telescopic stem and tighten stem nuts (see Figure 1).

Remove the armrest by disengaging the armrest lock and sliding the armrest forward and off (see Figure 2). It will be necessary to remove one battery cover to allow the cuff to fully slide forward (see Figure 3).



Figure 1



Figure 2



Figure 3

Disengage the stem rotation lock (see Figure 4) and, while continuing to hold the lock open, rotate the stem 180° counterclockwise (looking toward the coil) such that the coil is upside down (see Figure 5).



Figure 4



Figure 5

Partially slide the stem assembly out to access the coil connector.

Slide connector cover down the cable to expose the connector (see Figure 6). Loosen and disconnect from the electronics housing by hand (see Figure 7).



Figure 6



Figure 7



Figure 8

Remove the searchcoil/stem assembly from the electronics housing (see Figure 8).

It is also possible to replace the ATX searchcoil without fully removing the armrest or one of the battery covers. At Step 2 from above, simply disengage the armrest lock and slide the armrest forward without removing

Continue with the remaining searchcoil removal steps. Reinserting the connector and tightening the collar is done in a more restricted space, but this method does not require removing parts (see images below).



Optional method shown of searchcoil removal with the armrest cuff not fully removed.

## Searchcoil installation

Fully collapse the telescopic stem and tighten the stem nuts ②② ①

Partially slide the stem into the electronics housing ②② ②

Reattach the searchcoil connector by properly aligning the pins (see ②③ ③  
Figure 9), fully inserting the connector and tightening the collar by hand ②



Figure 9



Figure 10

The connector cover can be temporarily removed during this step if desired (see Figure 10); however, be sure to snap the cover back around the cable once the collar has been tightened ②

Note that it may be necessary to rewind the coiled cable so that it will ②④ properly fit inside the stem assembly. To do so, spin the stem assembly clockwise (looking from detector toward the coil) a few revolutions such that the stem assembly easily slides over the coiled cable; two to four revolutions is usually sufficient.

Rotate the stem assembly to the 180° position (i.e. ② coil upside down) ②⑤ and fully insert into the electronics housing ②

Disengage the stem rotation lock, rotate the stem 180° or to the desired ②⑦ and release the spring-loaded rotation lock to automatically position ② reengage

## BATTERY REPLACEMENT AND CHARGING

The ATX uses eight AA batteries (alkaline and rechargeable batteries are included). The detector is shipped with one set of alkaline batteries installed ②②. The set of rechargeable batteries also included with your detector can be recharged from AC power or a 12-Volt DC power source ②. The ATX accepts 1 ②5V rechargeable AA batteries, or 1 ②5V lithium batteries (3 ②7V, alkaline lithium batteries must not be used, as they can damage the detector) ②.

Both ATX battery packs should be replaced when the unit indicates low battery level (i.e. ② one beep at turn-on, along with low battery warning light, and periodic audible warnings; see p ②8) ②. Average operation time with fresh alkaline batteries is 12 hours; rechargeable battery time is 10 hours ②.

### Battery Replacement

The battery compartments are located on both side of the detector's armrest (see Figure 1) ②. Press in the battery cover, rotate a quarter-turn counter-clockwise to release the lock, and pull to remove (see Figure 2) ②.



Figure 1



Figure 2

Tip the detector forward to allow battery pack to slide out ②.

When installing the individual batteries into the battery pack, ensure they are aligned with the correct polarity, as indicated by the plus and minus markings on the inside of the battery pack ②. Reinstall the battery pack with the correct polarity as indicated by the plus and minus markings on the side of the detector (see Figure 3) ②. Replace the battery cover and rotate a quarter-turn clockwise to lock into place ②. Repeat this process for the batteries on the opposite side of the detector ②. If the ATX will be submerged, be

sure to lubricate the O-rings on each battery cover with silicone grease (see Figure 4)❖



Figure 3



Detail view of  $\pm$  polarity markings)



Figure 4

### Battery Charging

In addition to its factory-installed alkaline batteries, the ATX also includes one set of rechargeable batteries❖ Use the charger included to recharge

The charger accepts from one to eight AA batteries at a time for❖ batteries charging (see below)❖



Use only Ni-MH type batteries on this charger❖ Do not attempt: Caution to recharge lithium, alkaline or carbon batteries❖

Eight individual LEDs indicate charging status for each battery❖ Steady Red LED indicates rapid charging in progress❖ Steady Green LED indicates the battery is fully charged❖ Flashing Red LED indicates the battery is faulty or not suitable for charging❖ Flashing Green LED indicates the battery is undergoing a discharge cycle❖

## STORING ATX IN SOFT CASE

The soft carry case included with the ATX protects the detector during travel and when not in use❖ When properly arranged, it can hold the ATX, optional searchcoils and accessories, as shown on the following pages❖

### ATX with standard DD coil attached



Figure 1: ATX with DD coil attached.  
Secure straps around lower stem nut and housing.



Figure 2: ATX with DD coil attached + Deepseeker coil + headphones.  
close velcro flap to secure Deepseeker coil.❖Note



Figure 3: ATX with DD coil attached + Deepseeker coil + headphones + 8" mono coil.  
close velcro flap to secure Deepseeker coil.❖Note



Figure 4: ATX with Deepseeker coil attached + headphones.  
Secure straps around lower stem nut and housing.



Figure 5: ATX with Deepseeker coil attached + DD coil + headphones.  
close velcro flap to secure DD coil. Note



Figure 6: ATX with Deepseeker coil attached + DD coil + 8" mono coil + headphones.  
close velcro flap to secure DD coil. Note

## CARE AND MAINTENANCE

The ATX is a rugged detector, designed for outdoor use in all environments. As with all electronic equipment, there are some simple ways to, however, care for it to maintain its high performance.

Avoid extreme temperatures as much as possible, such as storing the detector in an automobile trunk during the summer or outdoors in sub-freezing weather.

Keep the detector clean, especially the touchpad and telescoping stem.

The ATX stems should never be collapsed and allowed to dry assembly when the unit is muddy or sandy, or after any underwater use. Saltwater and even freshwater sediment can inhibit the easy operation of the stems and stem nuts. Rinse the unit with fresh water to remove sediment, etc., and wipe down with a clean cloth, sand.

Hold the ATX under running freshwater to rinse off sediment. Vigorously rotate the stem nuts back and forth and work the stems in and out while under the running water to help flush any grit from within the stem nuts. Flush any debris from the stem rotation lock as well.



Rinse stems and stem nuts with fresh water to remove dirt, salt, etc.



Rotate stem nuts and rinse again to ensure grit has been removed.

If a freshwater source is unavailable after water hunting, rinse the unit in the body of water you have been hunting. Hold the ATX under the water surface while vigorously rotating the stem nuts back and forth and working the stems in and out to help free any trapped sediments. Then wipe the detector down with a clean cloth before collapsing the stems.

Leave stem nuts in a loose (untightened) mid-point position for storage to prevent any remaining deposits from seizing up the stem nuts.

When storing for longer than one month, remove detector's batteries. Install protective cover on the connector when not using headphones.

## TROUBLESHOOTING GUIDE

SYMPTOM	SOLUTION
No power	Ensure batteries are installed in the correct polarity.. <sup>1</sup> Replace all old batteries with all new batteries.. <sup>2</sup>
Erratic sounds and noisy operation	Ensure your searchcoil is securely connected.. <sup>1</sup> If using the detector indoors, be aware that excessive.. <sup>2</sup> amounts of electrical interference exists, plus excessive amounts of metal can be found in floors and walls, etc. Move outdoors. Determine if you are close to other metal detectors or.. <sup>3</sup> other sources of interference such as power lines, wire fluorescent lights, excessive metal, etc.,fences Move away from interference sources.. <sup>4</sup> Perform a Frequency Scan.. <sup>5</sup> Reduce your Sensitivity setting.. <sup>6</sup>
Intermittent target signals	Intermittent signals typically mean you' ve found a deeply buried target or one that is positioned at a difficult angle for your detector to read. Scan from different directions to help define the signal, and/or scrape away some soil to get the coil closer to the target.
Responds when bumping coil against etc.,rocks	Use a coil cover to cushion the coil's impact with items such as rocks, trees, etc.

## METAL DETECTING CODE OF ETHICS

The following is a Code of Ethics that many treasure hunt clubs endorse and hobbyists follow to preserve our exciting hobby of metal detecting. We encourage you to do the same:

I will respect private and public property, all historical and archaeological sites and will do no metal detecting on these lands without proper permission

I will keep informed on and obey all local and national legislation relating to the discovery and reporting of found treasures

I will aid law enforcement officials whenever possible.

I will cause no willful damage to property of any kind, including fences, signs and buildings

I will always fill the holes I dig.

I will not destroy property, buildings or the remains of deserted structures

I will not leave litter or other discarded junk items lying around.

I will carry all rubbish and dug targets with me when I leave each search area

I will observe the Golden Rule, using good outdoor manners and conducting myself at all times in a manner which will add to the stature and public image of all people engaged in the field of metal detection

## CAUTIONS

When searching for treasure with your Garrett detector, observe these precautions

*Never* trespass or hunt on private property without permission

Avoid areas where pipelines or electric lines may be buried.

National and state parks / monuments, etc. are absolutely off-limits.

Deepseeking detectors can detect concealed pipes, wiring and other potentially dangerous material. When those are located, the proper authorities should be notified.

Do not hunt in a military zone where bombs or other explosives may be buried.

Do not disturb any pipeline, particularly if it could be carrying flammable gas or liquid.

Use reasonable caution in digging toward any target, particularly in areas where you are uncertain of the ground conditions.

If you are unsure about using your metal detector in any area, always seek permission from the proper authorities.

## WARRANTY AND SERVICE

Your ATX detector is warranted for 24 months, limited parts and labor, but does not cover damage caused by alteration, modification, neglect, accident or misuse. Use of the ATX at submerged depths exceeding 10 feet meters) will void this warranty.

In the event you encounter problems with your ATX detector please read through this Owner's Manual carefully to ensure the detector is not inoperable due to misadjustments. Press and hold the RETUNE/PINPOINT pushbutton while switching the detector ON to return to the factory settings.

You should also make certain you have:

Checked your batteries, switches and connectors. Weak batteries are the most common cause of detector problems.

Contacted your dealer for help, particularly if you are not familiar with the ATX detector.

In the event that repairs or warranty service are necessary for your ATX, contact the local retail outlet where your detector was purchased. To avoid excessive shipping and import charges, do not attempt to return a Garrett product to the factory in the United States.

Information on international warranty/repair needs can be found on the Garrett website: [www.garrett.com](http://www.garrett.com). Click on the Hobby Division and then the Technical Support page for more details.

## ACCESSORIES

### (20cm) Mono Searchcoil™

Part No. 2234000

Excellent sensitivity on small targets  
Enhanced maneuverability in heavy scrub  
and tight areas  
Light weight  
Includes searchcoil and full stem assembly



### x 20" (38 x 50cm) Deepseeker™

Mono Searchcoil (Part No. 2234100)

Use for locating larger and more deeply  
buried objects  
Reduces response to small

Includes searchcoil and full debris  
stem assembly



### Waterproof Headphones

Part No. 2202100

Required when the headphones will be  
submerged in water



### PRO-POINTER® Pinpointing Detector

Part No. 1166000

The Garrett PRO-POINTER combines  
performance with sleek design to assist  
in pinpointing hard-to-find targets  
Includes proportional audio/vibration pulse rate  
target indicators and 360° side scan  
detection area  
Water resistant with LED light  
for low light uses  
Includes woven belt holster  
and a 9-volt battery



### Headphone Adapter™

Part No. 1626000

Allows use of standard headphones with a  
male phone plug with the Garrett ATX  
(Not intended for submerged use.)



### SuperSluice Gold Pan™

Part No. 1650400

Great for wet or dry panning or finishing  
Traps fine gold up to nuggets over 1 oz  
Twin half-inch riffles and deep throat funnel



### Hard Carry Case

Part No. 1626500

Protect your ATX and its optional searchcoils  
with this military-grade transport case  
Foam-padded interior is designed to house  
the ATX packed in its soft case  
Watertight  
and durable



To see Garrett's complete collection of metal detector accessories and gold  
please visit [www.garrett.com](http://www.garrett.com) and view products in the Hobby Division., pans