X-TERRA® PRO

Instruction Manual

POWERED BY **Pro-Switch**™
Switchable Frequency Technology

MINELAB

Contents

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Contents *(continued)*

> ⚠ **CAUTION**
>
> **Before assembling, charging, or using your detector for the first time, read the warnings and safety information listed in the following sections:**
>
> ▸ **"Charger Information and Safety" (page 40)**
> ▸ **"General Care and Safety" (page 47)**

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Getting Started

Quick Start

Before first use, it is recommended that you fully charge the battery for 6 hours [page 40].

1 TURN ON

Press the Power button on the side of the control panel.
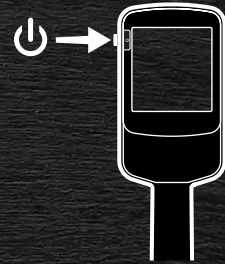
2 SELECT A SEARCH MODE

Select a Search Mode that suits your detecting location and desired target type.

See "Introduction to Search Modes" on page 9 for more information on how to choose the most suitable Search Mode.

3 NOISE CANCEL

Select Noise Cancel from the Settings Menu, then press ⚡ to initiate an Auto Noise Cancel. This will take approximately 5 seconds to complete.

4 GO DETECTING

Press ⊘ to return to the Detect Screen, and begin detecting!
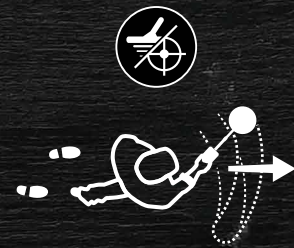
If there is excessive ground noise after completing the Quick Start steps, perform a Ground Balance [page 25]. If excessive noise is still being experienced, try reducing the Sensitivity level a little [page 17].

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Parts Overview

Speaker

Side Button

Headphone Socket

3.5mm (⅛") with
waterproof dust cap

Side Buttons

Flashlight (LED)

Charging Interface

Coil Connector

Armrest strap

Armrest

Stand

Upper Shaft

Handle
Contains Lithium-ion
Rechargeable Battery

Control Pod

Coil Connector

Handle Camlock

Upper Camlock

Teardrop
Washers (×2)

Yoke

Yoke Bracket

Coil Bolt

Middle Shaft

Lower Camlock

Lower Shaft

Coil Cable

Coil

Skid plate

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Controls

1. Charge Status LED
Shows the charge status of the detector battery (page 40).

2. Power
Turns the detector On/Off.

Long-press (7 seconds) from Off to restore factory settings (page 52).

3. Backlight
Selects the Backlight brightness (page 19).

Long-press (2 seconds) to turn the Flashlight On/Off (page 19).

4. Search Mode
Selects the next available Search Mode (page 9).

Long-press (5 seconds) to reset the current Search Mode Profile's local settings to their factory presets (page 9).

5. All Metal
Toggles between the current discrimination pattern and All Metal to accept all targets (page 30).

6. Pinpoint/Detect
Press from the Settings Menu to return to the Detect Screen.

Press from the Detect Screen to toggle Pinpoint On/Off (page 35).

7. Frequency
Scroll through the available frequencies:
5, 10 and 15 kHz (Park and Field Modes) and
8 kHz (Beach Mode) (page 16).

8. Accept/Reject (page 30)
Accepts or Rejects targets by turning On/Off individual Discrimination Segments.

Use to create discrimination patterns and to adjust Tone Regions via the Settings Menu.

9. Minus/Plus
Press when in the Detect Screen to adjust the Sensitivity level (page 17).

Press when in the Settings Menu to adjust the value of the selected setting.

10. Settings
Press to access and scroll through the Settings Menu.

Long-press (2 seconds) from the Settings Menu to access Advanced Settings where available.

11. Wireless Audio
Turns Wireless Audio On/Off (page 38).

Long-press (2 seconds) to initiate Wireless pairing mode to connect new headphones (page 38).

Display
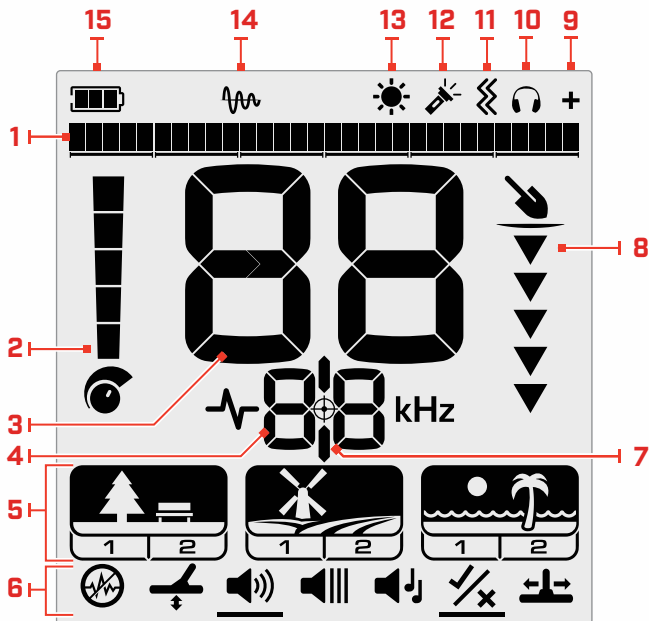
1. Discrimination Scale

The Discrimination Scale is made up of 30 individual segments that correspond to the 119 Target IDs. Each Segment represents 4 Target IDs (page 34).

Shows a visualisation of target signal strength when in Pinpoint Mode (page 35).

Also displays Tone Regions for advanced audio settings.

2. Sensitivity Level

Displays the Sensitivity level (page 17).

3. Target ID Display

A numerical value (from –19 to 99) is assigned to each detected target based on its conductive or ferrous properties. This allows objects to be identified before digging. For example, a US quarter will typically have a Target ID Number of 89 (page 34).

Negative numbers are ferrous, positive numbers are non-ferrous from fine gold (low ID's) to large silver (high ID's).

4. Frequency Display

Shows the current operating Frequency (page 16).

Also shows error codes (page 43), and indicates the current active Advanced setting.

5. Search Modes

Displays the Search Mode: Park, Field and Beach.

Each Search Mode has 2 customisable Profiles (page 9).
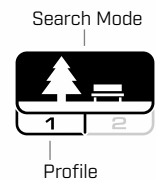
6. Settings Menu

A menu of all Settings and Advanced Settings (page 21).
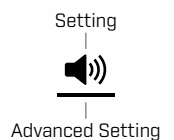
7. Pinpoint Indicator

Indicates that Pinpoint is turned On (page 35).

8. Depth Gauge

Shows the approximate depth of a detected target (page 18).

9. Wireless Audio Indicator

Indicates that Wireless Audio is On (page 38).

10. Headphones Indicator

Indicates that headphones are connected to the detector (either wireless or wired) (page 39).

11. Vibration Indicator

Indicates that handle Vibration is On (page 20).

12. Flashlight Indicator

Indicates that the Flashlight is On (page 19).

13. Backlight Indicator

Indicates that the backlight is On (page 19).

14. Tracking Ground Balance Indicator

Indicates that Tracking Ground Balance is turned On (page 25).

15. Battery Level/Charging

Indicates the current battery level (page 40).

Introduction to Search Modes

CHOOSING THE RIGHT SEARCH MODE

The X-TERRA PRO has preset Search Modes that have unique target separation and depth abilities. Choosing the right Search Mode is important to get the best performance for the environment you are detecting in.

Each Mode represents a common detecting use: Park, Field and Beach. Each Search Mode has two Profiles, uniquely pre-configured to optimise the detector for the best performance in the conditions typical to that location. Each of the Profiles can be modified and saved.

Select a Search Mode and Profile

Press the Search Mode button to select the next Search Mode.
Choose the Search Mode that best matches your detecting location — Park, Field or Beach.

To further optimise the preset detector settings, choose the best Search Profile for your detecting conditions:

- **Search Profile 1** is suitable for general conditions.
- **Search Profile 2** is optimised for more difficult conditions. Target sensitivity is enhanced, but extra noise may also result.

Park	Field	Beach
Great for high-trash recreational areas, including most general detecting.	Ideal for detecting in historical fields for the widest range of target sizes.	For all salty conditions; dry sand, wet sand, surf and underwater.
More on .	More on .	More on .

Profile 1	Profile 2	Profile 1	Profile 2	Profile 1	Profile 2
General and Coins	Fine Jewellery	Coins and Artefacts	Fine Coins and Artefacts	Dry and Wet Sand	Underwater and Surf

RESET A PROFILE

Individual Search Profiles can easily be returned to their factory preset settings:
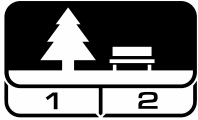
- only the local settings will be reset
- any global settings will remain in their last-used state

1. Press the Search Mode button to navigate to the Profile you want to reset.

2. Press-and-hold the Search Mode button until 'SP' appears on the Target ID Display.

SP 'SP' will appear on the Target ID Display when a Search Mode Profile is reset.

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Search Modes

Park

Great for high-trash recreational areas, including most general detecting.

Park Mode is designed for searching in urban parks or other recently inhabited sites where there may be coins and jewellery.

There is often also lots of metallic litter including aluminium foil, pull tabs and bottle caps.

Park Mode is a good starting point for other general uses such as freshwater detecting.

Park Mode default settings provide great depth, accurate target identification and good discrimination in trash-infested areas typical of recreational parks. If in doubt in a new area or when first detecting, try Park Mode first.

Park Profile 1: General and Coins

Park 1 is optimised for modern coins and larger jewellery. Therefore this is the ideal profile to start with to learn X-TERRA PRO before experimenting with the other Modes and more specialist settings.

Park 1 uses 10 kHz as a default, to achieve the best mix of high and low frequency targets. Hence Park 1 is most suited for general detecting and coin hunting.

Park Profile 2: Fine Jewellery

Park 2 is ideal for smaller targets in trash-infested (including ferrous trash) locations. Using 15 kHz, it will detect a wider range of targets including low conductor (or higher frequency) targets, e.g. fine jewellery. All non-ferrous targets are Accepted by default. Recovery Speed is increased to clearly identify good targets masked by iron trash.

Target Tone is set to All Tones to provide as much target information as possible via audio.

Park Detecting Hotspots

Detect in areas where people gather, such as near park benches, under trees and other shady spots where people have been sitting, or at recreation grounds near clubrooms or spectator stands.

After festivals or events, there are often many objects to find, especially coins, however but you may be in competition with other detectorists.

Always make sure you are allowed to detect in public parks, recreation areas and on private property.

Difficult Park Areas — Aluminium Foil

Modern parks typically contain a lot of aluminium shards from discarded trash (e.g. drink cans, pull tabs, ring pulls, etc.) Because aluminium is a non-ferrous very low conductive target, its Target ID falls within the same range as fine jewellery.

To dig less aluminium foil while still finding fine jewellery, use Park 1 with Discrimination Segment 6 rejected (i.e. Target IDs 1 to 4), or higher if the unwanted aluminium is larger in size.
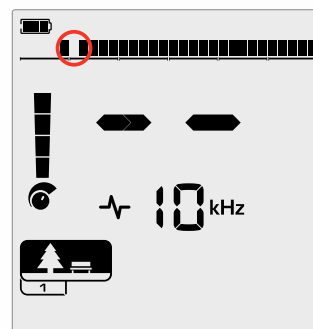
Reject segment 6 (Target IDs 1 to 4) in the discrimination pattern to improve ferrous trash performance whilst eliminating small foil responses.

Field

Ideal for detecting in historical fields for the widest range of target sizes.

Field Mode is for searching open pasture, cropped or ploughed fields and historically occupied sites. These environments generally contain ferrous trash and coke from previous human occupation. In highly infested sites, Field Mode is well suited for rejecting coke and detecting hammered coins and ancient artefacts amongst the iron trash.

Field Profile 1: Coins and Artefacts

Field 1 is for general hunting with high trash rejection. This assists in locating desired targets more easily. The default discrimination pattern is set to reject Target IDs 1 to 4 (most coke signals).

When non-ferrous targets are surrounded by ferrous trash, the Target ID can be shifted down into the ferrous region. Tone Breaks in both Park and Field Modes are set to –4 to ensure no non-ferrous items are missed.

Using 10 kHz in Field 1 means it is most suited for general detecting and coin hunting.

Field Profile 2: Fine Coins and Artefacts

Field 2 suits locations with high target and trash densities, including ferrous trash. It will better detect large coins on their edge or at greater depth. The default discrimination pattern is set to reject Target IDs 1 to 4 (most coke signals).

Target Tone is set to All Tones to enhance audio identification and Recovery Speed is faster. Field 2 uses 15 kHz as a default, to maximise performance in ferrous trash infested locations.

Field Detecting Hotspots

When it comes to detecting for historical items, you will want to find old inhabited sites that may have long disappeared from view.

Research is a great way to find out where old sites may have existed from old texts, maps, and articles. This method of site selection can pay off and yield wonderful results. Freshly ploughed fields are also very good detecting locations, as targets that were deep may have been churned to the surface during ploughing.

Difficult Field Areas — Coke

Coke is the charcoal and carbon by-product of burnt coal, and is prevalent around historically populated areas.

Generally coke has a Target ID of 1 or 2, but can be as high as 4. For this reason it is rejected by default in Field Mode. Note, this could result in some small non-ferrous targets being missed.
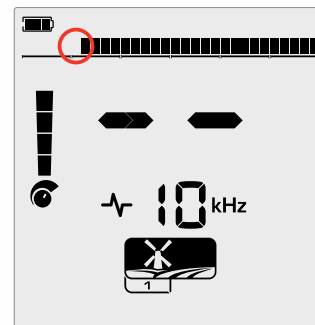
Rejected Target IDs 1 and 2 in the discrimination pattern for Field Mode Search Profiles.

Beach

Optimised for all salty conditions — dry sand, wet sand, surf, underwater.

Beach Mode is for salt water beaches including dry sand, wet sand, surf and underwater conditions. The salt that is typically present causes the sand and water to be very conductive, causing salt noise to be detected. Beach Mode uses a specialist salt noise rejection configuration and other single frequencies can't be selected.

Beach Mode specifically identifies any residual salt response and assigns a Target ID of 0 (zero) — indicating that it's an unwanted target — so that desirable low conductive targets such as gold chains can readily be detected with minimal interference from the salt-water. The Recovery Speed is relatively high to further reduce unwanted salt-water signals, without greatly sacrificing detection depth.

Beach Profile 1 — Wet and Dry Sand

Beach 1 is most useful for detecting in wet and dry beach sand and also in shallow water where conductive salt signals are prevalent. It has good sensitivity to coins and small to large jewellery. Beach 1 uses a lower Recovery Speed to maximise depth performance across all targets.

Beach Profile 2 — Underwater and Surf

Beach 2 gives the best results for detecting underwater with the coil fully submerged, or in surf where the coil is intermittently submerged. This profile may also be useful in dry conditions where there are extremely high ground noise levels. Beach 2 has a faster Recovery Speed to aid in rejection of the salt water signals.

Beach Detecting Hotspots

Search for coins and jewellery under jetties and board-walks, beside steps and entry ways to and from the beach.

Locate the areas where people swim the most and detect in the deeper water there. Venturing into the water can give you an advantage over other detectorists who remain on the sand. Research shipwrecks if you are interested in historical finds.

Occasionally, the top layers of sand will be washed away by stormy weather conditions, exposing some deeper layers that often contain good targets.

Difficult Beach Areas — Black Sand

Some beaches contain black sand which has a high natural iron content and is often magnetic. This causes continuous false ferrous detections, making normal beach detecting difficult. In this scenario, first Ground Balance the detector. If there are still false detections after Ground Balancing, then reduce the Sensitivity.

General Settings

Global and Local Settings

Global Settings

All Search Mode Profiles will be affected by changes to the setting — all Search Modes and Search Profile icons are displayed.

Local Settings

Only the active Search Mode Search Profile will be affected by changes to the setting — Only the affected Search Mode and Profile are displayed.

Global and Local Settings Reference

General Settings

⌖	**Sensitivity**	Global
☀	**Backlight**	Global
🔦	**Flashlight**	Global
⌁	**Frequency**	Local

Settings Menu

When you are adjusting items in the Setting Menu (Settings and Advanced Settings), the icons of affected Search Modes will appear on the LCD.

◉	**Noise Cancel**	Local
⌁	**Ground Balance**	Local
🔊	**Volume Adjust**	Global
≪	**Master Vibration** *incl. Ferrous Vibration*	Global
🔊	**Tone Volume**	Local
≪	**Ferrous Vibration** *Unavailable if Master Vibration Off*	Local
◁III	**Threshold Level**	Global
🔊	**Target Tone**	Local
✓✗	**Accept/Reject**	Local
✓✗	**Tone Break**	Local
⊥	**Recovery Speed**	Local

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Frequency

PRO-SWITCH™ TECHNOLOGY

X-TERRA PRO features Pro-Switch™ Switchable Frequency Technology for instant switching between detecting frequencies. Pro-Switch™ helps zero-in on the types of targets you are looking for at the push of a button.

Frequency adjustment is local; only the current Search Mode Profile is affected by changes to this setting.

> **!** Perform a Noise Cancel [page 23] each time the Frequency is changed.

CHANGING THE FREQUENCY

1. Press the Frequency button to scroll through the available frequencies.

 The Frequency button

The Frequency is shown on the Frequency Display.

 Displays the current selected frequency in kHz: 5, 8, 10 or 15.

2. Perform a Noise Cancel [page 23].

FREQUENCIES AND SEARCH MODES

Not all frequencies are available in every Search Mode. Each Search Mode is limited to the frequencies that provide the best performance for that Mode. For example, Park and Field Modes achieve good results across a wide frequency range, therefore 5, 10, and 15 kHz are available.

Beach Mode however, performs most successfully in typical beach conditions at 8 kHz, therefore the other frequencies are not available.

	Frequency (kHz)			
	5	8	10	15
Park	✔	✖	✔	✔
Field	✔	✖	✔	✔
Beach	✖	✔	✖	✖

Sensitivity

The X-TERRA PRO detector is highly sensitive and has adjustable Sensitivity. Setting the correct Sensitivity level for individual detecting conditions will maximise detection depth.

Always choose the highest stable Sensitivity setting to get the best performance from your detector.

The Sensitivity Indicator on the LCD shows the approximate Sensitivity level in increments of 5.

Level 1 – 5	Level 6 – 10	Level 11 – 15	Level 16 – 20	Level 21 – 25
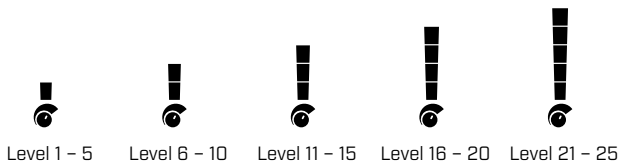
ADJUST THE SENSITIVITY LEVEL

(i) Before reducing the Sensitivity, always try to resolve noise by first performing:

- Noise Cancel [page 23], followed by
- Ground Balance [page 24]

The Sensitivity Level is shown on the Target ID Display while it is being adjusted, and will disappear after 3 seconds of inactivity.

1. Holding the coil stationary, use the Plus button to increase the Sensitivity level until false signals begin to occur.

   ➕ The Plus button

2. Reduce the Sensitivity level by pressing the Minus button, just enough that the false signals disappear.

   ➖ The Minus button

3. Sweep the coil over a clear patch of ground, and decrease the Sensitivity Level further if there is still some ground noise.

Depth Gauge

The Depth Gauge indicates the approximate depth of a detected target.

The Depth Gauge is a guide only. Fewer arrows indicate a shallower target, more arrows indicate a deeper target. The accuracy can vary depending on the target type and ground conditions.

After a target is detected, the Depth Gauge will remain on the LCD for 5 seconds, or until the next target is detected.

When there is no detection, the Depth Gauge icon and arrows are turned Off.

Here is an example of the Depth Gauge reading and the approximate target depth for a US quarter.

50 mm	100 mm	150 mm	200 mm	> 200 mm
2"	4"	6"	8"	>8"
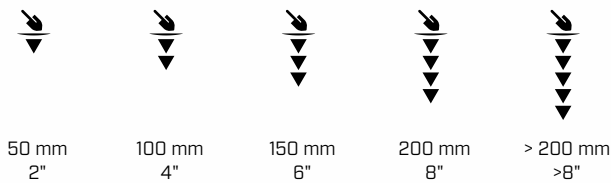
> ⓘ The Depth Gauge accuracy is reduced in highly mineralised soil.

Lighting

BACKLIGHT

The X-TERRA PRO LCD and keypad have a backlight for detecting in low-light situations.

There are 3 backlight level settings — Off, High, and Low.

The Backlight will be Off by default each time the detector is powered On.

(i) Continual use of the backlight, especially at full brightness will result in decreased battery runtime.

Adjusting the Backlight

Press the Backlight button to cycle through the Backlight settings (from highest to lowest). The Backlight Indicator appears on the LCD when the Backlight is On.

The Backlight button   The Backlight indicator

FLASHLIGHT

X-TERRA PRO has a flashlight for detecting in low-light situations.

The Flashlight will be Off by default each time the detector is powered On.

(i) Continual use of the Flashlight will result in decreased battery runtime.

Turning the Flashlight On/Off

Long-press (2 seconds) the Backlight button.

The Flashlight indicator appears on the LCD when the Flashlight is On.

The Backlight button   The Flashlight indicator

Vibration

X-TERRA PRO has a Vibration feature that provides tactile feedback though the detector handle.

Vibration intensity varies in proportion to the target signal strength (for both regular detecting and in Pinpoint Mode).

The Vibration setting is remembered after the detector is powered Off. If Vibration is On when the detector is powered Off there will be a brief vibration pulse at start-up.

Master Vibration is Off by default.

TURNING MASTER VIBRATION ON/OFF

1. Navigate to the Volume Adjust setting.

2. Press the Frequency button to toggle Master Vibration On/Off.

TURNING FERROUS VIBRATION ON/OFF

When Master Vibration is On, Ferrous Vibration becomes available and can be toggled On/Off.

Ferrous Vibration is turned Off by default when Master Vibration is first enabled.

1. Navigate to the Volume Adjust setting.

2. Long-press (2 seconds) the Settings button to enter the Tone Volume Advanced Setting.

    (2 Seconds)

3. Press the Frequency button to toggle Ferrous Vibration On/Off.

Settings Menu

Settings Menu Navigation

The Settings Menu contains adjustable settings relating to the detector. You can change audio and other detecting settings via this menu.

SETTINGS MENU NAVIGATION

⚙️ The Settings Menu can be accessed from any screen by pressing the Settings button.

Each press of the Settings button will scroll to the next setting in the Settings Menu in a left-to-right direction. After the last Setting the detector returns to the Detect Screen. Press the Settings button again to begin scrolling from the left again.
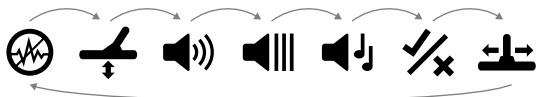
Press either the Search Mode button or the Pinpoint/Detect button from the Settings Menu to return to the Detect Screen.

The Settings Menu remembers the last accessed setting and will return to that setting the next time the Settings button is pressed.

ACCESSING ADVANCED SETTINGS

1. Press the Settings button to navigate to any top level Setting that has an Advanced Setting.

2. Long-press (2 seconds) the Settings button to select the Advanced Setting, indicated by a line beneath the icon.

2 Seconds

3. To return to the top-level setting, Long-press (2 seconds) the Settings button.

The Settings Menu remembers if an Advanced Setting was last accessed and will return you to that setting next time the Settings button is pressed.

Noise Cancel

Detectors can become noisy due to electrical interference from power lines, electrical equipment or other detectors operating nearby. The detector interprets this interference as inconsistent, erratic detections.

The Noise Cancel setting allows you to change the noise cancel channel. This slightly shifts the detector transmit frequency to be less responsive to the source of the noise.

Noise Cancel affects both the audible detection noise level and pinpointing performance.

The Noise Cancel setting has 19 channels with a range from –9 to 9. It has a default setting of 0 [zero] for all Search Mode Profiles.

Noise Cancel adjustment is local; only the current Search Mode Search Profile is affected by changes to this setting.

> (i) Noise Cancel should be carried out whenever the frequency setting is changed.

AUTO NOISE CANCEL

Auto Noise Cancel automatically scans and listens to every frequency channel and then selects the one with the least interference.

1. Hold the coil stationary and away from the ground.
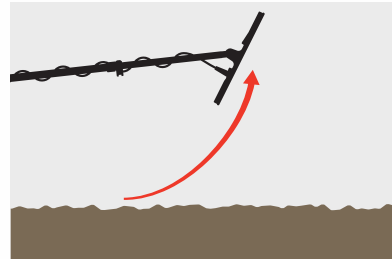
2. Press the Settings button to navigate to the Noise Cancel setting.

3. Press either the Accept/Reject button or the Minus (–) or Plus (+) button to initiate the Auto Noise Cancel.

4. The Auto Noise Cancel progress is indicated on the Discrimination Scale, and by a series of ascending tones.

   When this process is complete (after approximately 8 seconds), the automatically selected channel appears on the Target ID Display, and there are three confirmation tones.

> (i) **Note:** While Auto Noise Cancel selects the 'quietest' channel based on several criteria, the selected channel may still have some audible noise.
>
> To try and reduce noise further, consider adjusting Sensitivity.

Ground Balance

The Ground Balance setting calibrates the detector to the local ground in order to eliminate the false signals caused by mineralisation.

The Ground Balance setting has a range from –9 to 99, with a default of 0 [zero] for all Park, Field, and Beach Mode search profiles.

Tracking Ground Balance is recommended when detecting in saltwater at beach locations. It can also be useful for detecting mineralised or variable soils when in Park and Field Modes.

Ground Balance adjustment is local; only the current Search Mode Search Profile is affected by changes to this setting.

ⓘ The default Ground Balance setting of 0 [zero] is recommended for Park, Field and Beach Modes because these locations typically have low levels of mineralisation.

However, if the ground is generating many noise signals (and/or the Sensitivity level is set very low), then using Auto Ground Balance is recommended.

If the Auto Ground Balance process does not greatly reduce ground noise (due to highly mineralised ground or high salt levels), then repeat the Auto Ground Balance process by sweeping the coil from side-to-side, rather than the standard up-and-down motion.

AUTO GROUND BALANCE

Auto Ground Balance automatically determines the best Ground Balance setting, however the process must be initiated by the user.

Using Auto Ground Balance is the recommended Ground Balance Method.

1. Press the Settings button to navigate to the Ground Balance setting.

2. **Press-and-hold** the Accept/Reject button throughout the Auto Ground Balance process.

   The Tracking Ground Balance icon on the LCD will begin to flash rapidly.

   (Flashing)

3. Raise and lower the coil repeatedly over a clear patch of soil that does not contain any targets. Observe the Ground Balance number updating dynamically on the Target ID Display, as the audio reduces in response to the ground.

   The response will be stabilised when the value in the Target ID Display settles on a number, and the audible response is minimised.
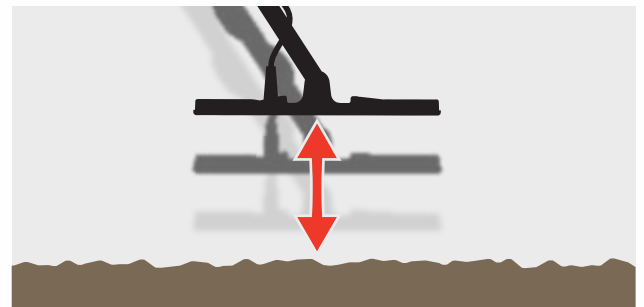
4. Release the Accept/Reject button.

Ground Balance *(Continued)*

MANUAL GROUND BALANCE

Ground Balance can be manually adjusted until the minimum amount of ground signal is present.

1. Press the Settings button to navigate to the Ground Balance setting.

2. Raise and lower the coil repeatedly over a clear patch of soil that does not contain any targets.
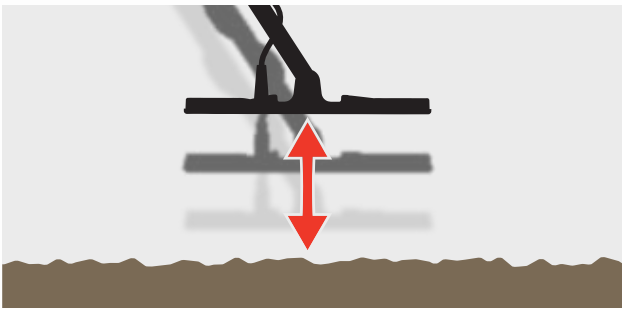
Listen to the audio response to interpret the result of the Ground Balance; a low tone indicates that you should increase the Ground Balance value and a high tone indicates that you should decrease it.

3. Press the Minus (−) and Plus (+) buttons to manually change the Ground Balance value until the minimum amount of ground signal is heard. The Manual Ground Balance value is shown on the Target ID Display.

TRACKING GROUND BALANCE

When Tracking Ground Balance is active, the detector continuously adjusts the Ground Balance automatically during detecting. This ensures that Ground Balance is always set correctly.

> ⓘ Tracking Ground Balance can be useful for detecting in salt water (coil submerged) in Beach Mode 2.

Press the Settings button to navigate to the Ground Balance setting.

4. Press the Accept/Reject button to toggle Tracking Ground Balance On/Off.

When Tracking Ground Balance is On, the Tracking Indicator will appear on the LCD, and Ground Balance will track automatically in the background.

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Volume Adjust

Volume Adjust changes the loudness of all detector audio, including detection signals, the threshold tone, and confirmation tones.

Volume Adjust changes are global.

The Volume Adjust setting has a range from 0 to 25 with a default setting of 20.

When the volume level is set to 0, all audio is muted (Off).

ADJUST THE VOLUME

1. Press the Settings button to navigate to the Volume Adjust setting.

2. Use the Minus (–) or Plus (+) buttons to decrease or increase the volume to a comfortable level, making sure that loud signals (close or large targets) do not hurt your ears.

Tone Volume *(Advanced Setting)*

Tone Volume allows you to set the volume level for the ferrous Tone Region. This is a great feature when detecting in iron-infested locations.

By default, The Tone Volume setting is lower than the volume of conductive tones in order to make non-ferrous detections stand out from ferrous detections. The exact default value varies between Search Modes.
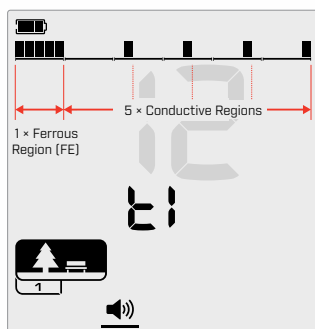
Tone Volume adjustment is local; only the current Search Mode Search Profile is affected by changes to this setting.

(i) Tone Volume is not available when Target Tone is set to 1 Tone.
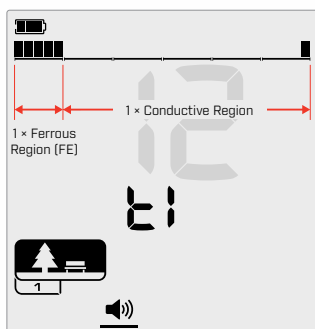
Tone Volume adjustment screen when Target Tone is set to 2. The Discrimination Scale is divided into 2 regions.

Tone Volume adjustment screen when Target Tone is set to 5. The Discrimination Scale is divided into 5 regions.

ADJUST TONE VOLUME

(i) Before adjusting Tone Volume, select your preferred Target Tones setting [page 29].

This is because changes to Tone Volume only apply to the active Target Tone setting.

Press the Settings button to navigate to the Volume Adjust setting.

1. Long-press (2 seconds) the Settings button to select the Tone Volume Advanced Setting.

(2 Seconds)

2. 't1' will appear on the The Frequency Display, and the Ferrous Tone Region segments on the Discrimination Scale will flash slowly. Press the Minus (−) or Plus (+) buttons to adjust the Volume of the Ferrous Tone Region.

(i) In trashy or iron infested locations, set the Tone Volume (ferrous tones) to be much quieter than than the global volume, but without making them inaudible. This way, you can hear how much ferrous trash is being detected. If you hear lots of ferrous trash, detect more slowly so you don't miss desired targets. If you hear very little ferrous trash, you can detect more quickly.

Threshold Level

A threshold tone is a constant background sound that is useful for hearing faint target responses. Adjust the Threshold Level setting to set the loudness of the threshold tone, or turn it Off.

Threshold Level changes are global.

The Threshold Level setting has a range from 0 to 25 with a default setting of 0 (Off).

ADJUST THE THRESHOLD LEVEL

1. Press the Settings button to navigate to the Threshold Level setting.

2. Use the Minus (−) or Plus (+) buttons to adjust the Threshold Level. Adjustment takes effect immediately, so listen to the audio to select your preferred level.

'REFERENCE' THRESHOLD TONE

A 'reference' threshold is a simple continuous background tone that blanks when a Rejected Target ID is detected.

Without a reference threshold, a rejected target would be silent, and you would not be made aware of the target's existence.

For typical treasure detecting locations where there is often a large amount of trash in the ground, constant audio blanking may be disruptive, therefore using a Threshold Level setting of 0 (Off) is recommended unless you want to hear audio blanking.

THRESHOLD BLANKING

When a Rejected ID is detected, the Threshold tone 'blanks' (becomes silent) to indicate that a rejected target is underneath the coil.

If the Threshold Level is set to 0 (Off), you will not hear the blanking of the Rejected ID's.

Audible Detection

Threshold tone

Time ▶

'Blanked' Detection (no sound)

Target with accepted ID

Target with rejected ID
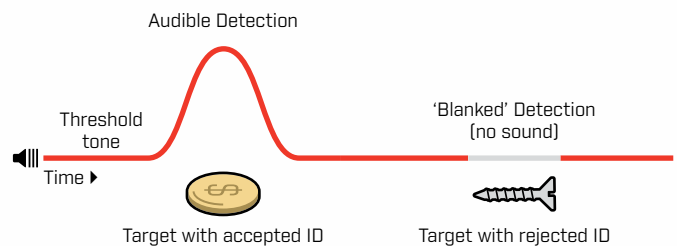
Target Tone

The Target Tone Setting controls the number of different tones you will hear for different types of targets.

Target Tone allows you to divide the Target ID range into separate Tone Regions. Therefore, you can hear more or less target information.

The Target Tone setting has the options of 1, 2, 5, All Tones (At) and Depth (dP).

Target Tone adjustment is local; only the current Search Mode Search Profile is affected by changes to this setting.

Choosing a Target Tone Setting

1 Tone
Target responses give long and short beeps of the same pitch, regardless of their Target ID.

2 and 5 Tones
Target responses give long and short beeps in 2 or 5 different pitches depending on their Target ID.
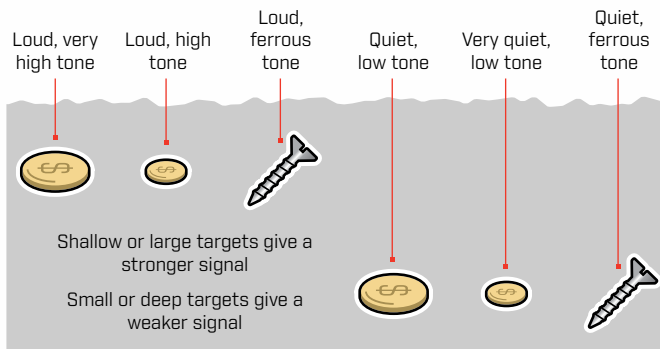
All Tones (At)
Target Responses give long and short beeps with a different pitch for every Target ID.

Depth (dP)
Target Responses vary in pitch and volume proportional to the target signal strength. All targets increase in volume proportional to the target signal strength, therefore large or shallow targets will sound louder than small or deep targets.

Conductive targets increase in pitch, and ferrous targets have a constant low-pitch.

Loud, very high tone   Loud, high tone   Loud, ferrous tone   Quiet, low tone   Very quiet, low tone   Quiet, ferrous tone

Shallow or large targets give a stronger signal

Small or deep targets give a weaker signal

Change the Number of Target Tones

1. Press the Settings button to navigate to Target Tone.

2. Use the Minus (−) and Plus (+) buttons to select the new Target Tone setting: 1, 2, 5, All Tones (At), or Depth (dP).

   The setting is indicated on the Target ID Number.

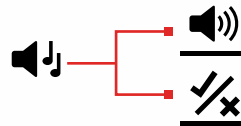| 1	2	5	At	dP
1 Tone	2 Tones	5 Tones	All Tones	Depth

Target Tone Dependencies

When the Target Tone setting is changed, the options for the following Advanced Settings also change:

- Tone Volume
- Tone Break

For this reason, we recommend choosing your Target Tone setting before you begin adjusting the Tone Volume and Tone Break settings.

Accept/Reject

You can create your own discrimination patterns to detect or ignore specific target types, so you can dig more treasure and less trash.

The Discrimination Scale is made up of 30 individual segments that correspond to the 119 Target IDs. Each segment represents 4 Target IDs (page 34).

Segments can be turned On/Off to either detect (accept) or ignore (reject) targets. All Target IDs that are On will be accepted and all Target IDs that are Off will be rejected.

Discrimination patterns are local, only the current Search Mode Profile Discrimination Pattern will be changed.

CREATING A DISCRIMINATION PATTERN

1. Navigate to the Accept/Reject setting.

2. Use the Minus (−) and Plus (+) buttons to navigate to the Discrimination Segment you wish to change.

3. The selected Discrimination Segment will flash slowly, and the Target ID Number of the highest ID represented by that Segment will be displayed. E.g. the sixth segment from the left represents Target ID's 1 to 4, so a 4 is displayed on the Target ID display. Press the Accept/Reject button to toggle the Segment On/Off.

4. Continue to navigate along the Discrimination Scale, turning Segment On/Off using the Accept/Reject button until you have created your discrimination pattern.

ACCEPT/REJECT TARGETS UPON DETECTION

A target can be rejected upon detection if the corresponding Target ID is currently turned On in the discrimination pattern.

If a Target ID is currently Accepted and a detection occurs, an audio response will be heard, the Target ID segment will flash, and the Target ID Number will be displayed.

To reject a detected target, press the Accept/Reject button.

Targets with that Target ID will now be rejected, and will not be heard.

The last rejected target can be instantly re-accepted by pressing the Accept/Reject button again, as long as no other detection occurs before doing so.
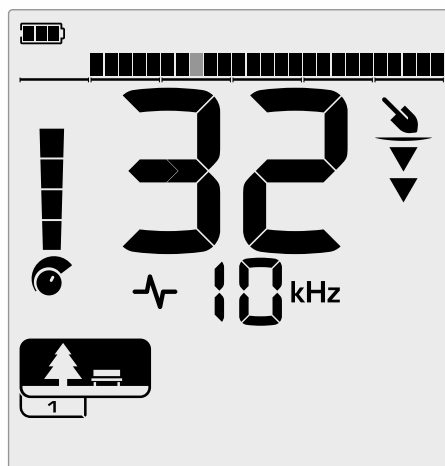
Example showing the detection of an accepted non-ferrous target with a Target ID of 32. Segment 13 on the Discrimination Scale will flash, because that Segment represents Target IDs 29 to 32.

Accepting a rejected Target ID is not possible directly from the Detect Screen. Rejected Target IDs must be re-Accepted by adjusting the discrimination pattern via the Accept/Reject Setting in the Settings Menu.

ALL METAL

All Metal is turned Off by default each time the detector is powered On.

Turn All Metal On/Off by pressing the All Metal button.

When All Metal is On, the current discrimination pattern is disabled so that all metal objects will be detected.

Tone Break *(Advanced Setting)*

This Advanced Setting allows you to manually control the point at which ferrous tones occur. A use-case example of this is coke, an undesirable non-ferrous 'pest' target that typically has a Target ID of 1 or 2, though it can go as high as 4.

By moving the ferrous tone break point up to 4 (segment 6 on the Discrimination Scale), coke is moved into the ferrous range and will now give a ferrous response. Note however that some low conductive targets will now give the same response as a 'bad' ferrous target.

By default, Target IDs –19 to –4 are set as ferrous for Park and Field Modes, and –19 to 0 are set as ferrous for Beach Mode.

Tone Break adjustment is local; only the current Search Mode Profile is affected by changes to this Advanced Setting.

> ⓘ Tone Break is not available when Target Tone is set to 1 Tone.

ADJUST TONE BREAK

> ⓘ Before adjusting Tone Break, select your preferred Target Tones setting (page 29).
>
> This is because changes to Tone Break only apply to the active Target Tone setting.

X-TERRA PRO allows the ferrous break point to be adjusted.

1. Navigate to the Accept/Reject setting.

    ⚙ ▶ ✅

2. Long-press (2 seconds) the Settings button to select the Tone Break Advanced Setting.

    ✅ ▶ ⚙ ▶ ✅
    (2 Seconds)

3. 't1' will appear on the Frequency Display. The Target ID Number will show the current value of the ferrous tone break point, (e.g. 0), and the corresponding Discrimination Segment will flash slowly.

4. Use the Minus (–) and Plus (+) buttons to navigate to the Discrimination Segment you wish to use as the ferrous tone break point.

    ⊖ / ⊕

Recovery Speed
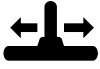
The Recovery Speed setting alters how quickly the detector responds from detecting one target to detecting another target.

By increasing the Recovery Speed, the detector is able to better differentiate between multiple targets that are close together. This assists in high-trash areas with finding smaller desired targets amongst larger iron trash.
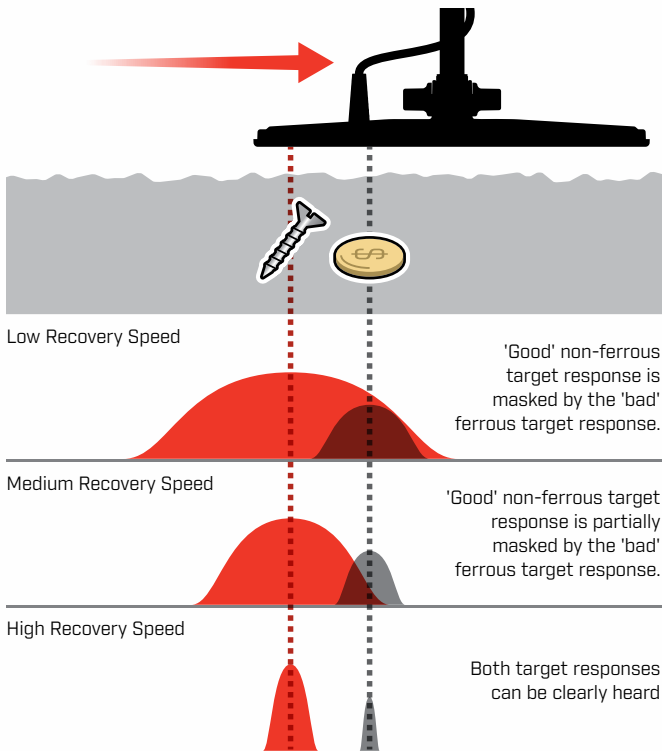
X-TERRA PRO has 3 Target Recovery Speed settings.

Recovery Speed adjustment is local; only the current Search Mode Profile is affected by changes to this setting.

While using a higher target Recovery Speed may increase the ability of the detector to find difficult targets, it also results in reduced Target ID accuracy and less detection depth.

Low Recovery Speed

'Good' non-ferrous target response is masked by the 'bad' ferrous target response.

Medium Recovery Speed

'Good' non-ferrous target response is partially masked by the 'bad' ferrous target response.

High Recovery Speed

Both target responses can be clearly heard

ADJUST RECOVERY SPEED

When adjusting the Recovery Speed for the first time, lay out some targets close together to test how the detector responds with different Recovery Speed settings.

1. Press the Settings button to navigate to the Recovery Speed setting.

2. Use the Minus (−) and Plus (+) buttons to decrease or increase the Recovery Speed. Adjustments are automatically saved.

SWING RATE

A good general swing rate is around 2 to 3 seconds from right-to-left-to-right. A higher Recovery Speed generally allows you to swing at a faster rate without missing many targets.

A higher Recovery Speed at the same swing rate will help to reject ground noise, however it will also decrease detection depth.

If you are experiencing high levels of ground noise at the beach, or when detecting underwater, try increasing the Recovery Speed to reduce the noise.

A lower Recovery Speed at the same swing rate will increase detection depth, however may increase noise.

Varying both Recovery Speed and swing rate can help minimise ground noise.

MINELAB

# Target Identification, Pinpointing & Recovery

MINELAB

Target Identification

TARGET IDENTIFICATION NUMBER

Target Identification (Target ID) numbers range from –19 to 99 with ferrous (iron) targets ranging from –19 to 0.

When a target is detected, it is represented as a number that appears on the Target Identification Number field on the display. This indicates the target's ferrous or non-ferrous properties for quick and easy identification.

For example, a US quarter has a Target ID of 89. This means that each time a Target with an ID of 89 is detected, there is a good chance that it will be a US quarter.
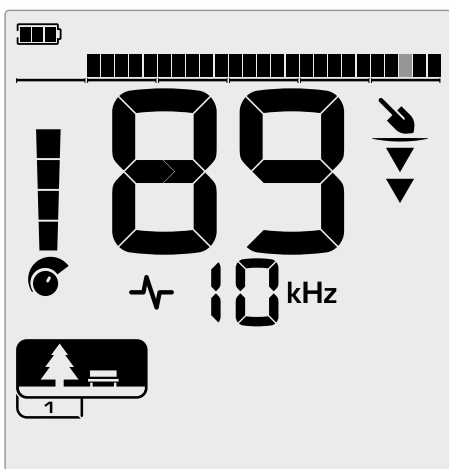

A Target ID Number appears when a target is detected. This example shows the detection of a shallow US quarter. The corresponding Target ID Segment flashes upon detection (flashing segment shown in grey).

The last-detected Target ID remains on the display for five seconds or until another target is detected.

Note: Some non-ferrous targets display a negative ID if there is an adjacent ferrous target.

If there is no detection or the detector passes over a target that it rejects, the display shows two large dashes.
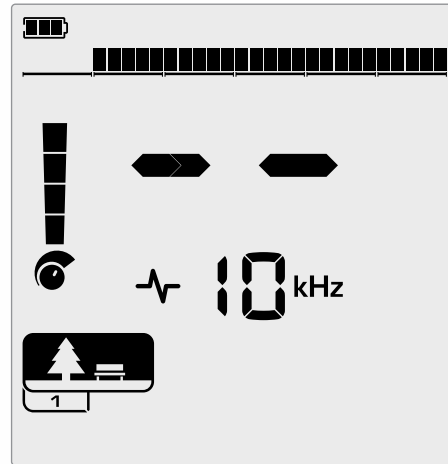
Two large dashes on the Target Identification Number field when there is no detection.

DISCRIMINATION SCALE

The Discrimination Scale corresponds to the 119 Target IDs, with each segments representing 4 Target IDs. Accepted (detected) targets are shown as visible segments, and will flash when a target with that ID is detected. Rejected (non-detected or 'blanked') targets are turned Off.

Discrimination Segments are turned On (Accepted) or Off (Rejected) to create Discrimination Patterns.

You can discriminate between desired and undesired targets that appear along the Discrimination Scale. Therefore you only hear target signals from those you want to find, and unwanted targets are ignored.

You can do this by the following methods:

- Accepting/Rejecting detected targets upon detection using the Accept/Reject button (page 30).

- Creating a discrimination pattern via Accept/Reject in the Settings Menu (page 30).
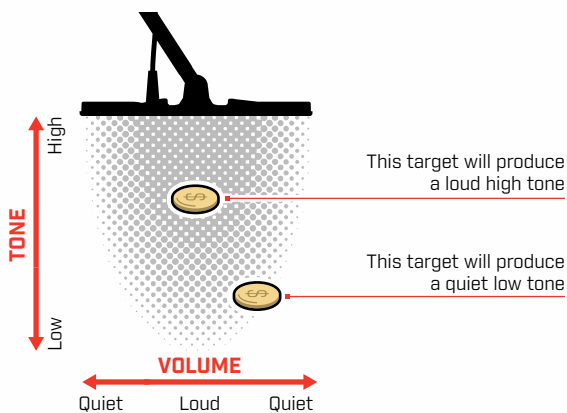
Pinpoint

Pinpointing helps you to quickly narrow down the location of a buried target, allowing you to determine its exact location before digging.

Pinpointing can be done in two different ways:

- Using the Pinpoint Function (see "Locate a Target Using Pinpoint Mode" on page 35)

- Using a manual pinpointing technique (see "Locate a Target Manually" on page 36)

The difference in tone and volume will help to identify the position and depth of the target.

This target will produce a loud high tone

This target will produce a quiet low tone

PINPOINT MODE VISUALISATION

When Pinpoint Mode is turned On, the discrimination pattern is temporarily disabled (i.e. All Metal is enabled). Pinpoint Mode also switches Off motion detection, so target signals occur even if the coil is stationary.

As the centreline of the coil approaches the target, discrimination segments will fill from the outside towards the centre. When the Discrimination Segments are all On, the target is directly beneath the centreline of the coil.
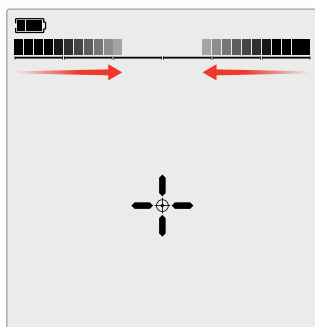

Weak/off-centre target signal: Fewer discrimination segments are On. The target is located nearer to the outside of the coil.
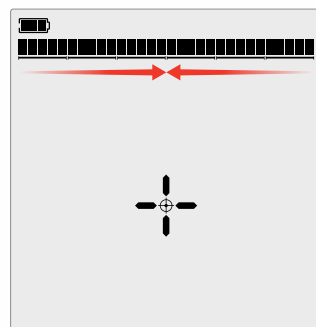
Strongest target signal: All discrimination segments are On. The target is located directly below the centreline of the coil.

LOCATE A TARGET USING PINPOINT MODE

1. Hold the coil away from the approximate target location, then press the Pinpoint button once to turn Pinpoint Mode On. The Pinpoint Indicator cross-hairs will appear on the display.
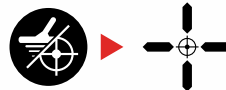
2. Keeping the coil parallel to the ground, sweep slowly over the target location two or three times. This calibrates the Pinpoint function for more accurate pinpoint audio responses.

3. Locate the centre of the target by listening for the loudest signal and/or watching the Pinpoint Visualisation on the display.

   Note: the Pinpoint function progressively masks the target response by reducing the Sensitivity with each sweep until only a very narrow target response remains.

4. When all of the segments on the Discrimination Scale are On, the target will be below the centre of the coil.

If you have difficulty Pinpointing the target, or if the detector becomes too noisy when Pinpoint is turned On, turn Off Pinpoint and then return to Step 1 and repeat the Pinpoint procedure.

MINELAB

Pinpoint *(Continued)*

LOCATE A TARGET MANUALLY

It is possible to locate a target successfully without using Pinpoint, however this requires practice. This method may be required when a desirable target is surrounded by trash.

1. Sweep the coil slowly across the target location keeping the coil parallel to the ground.

2. Locate the centre of the target by listening for the loudest target signal response.

3. Make a mental note of the position, or mark a line on the soil with your shoe or a digging tool.

4. Move to one side so that you can pass the coil over the target at right angles to your initial direction.

5. Repeat steps 1 and 3 from your new position. The target is located where the two imaginary lines cross.
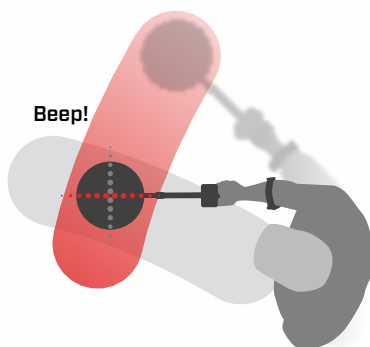
1–3

Make a line where the strongest signal is heard.

Beep!
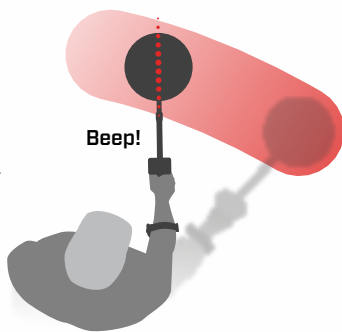
4–5

Stand at right-angles to your initial position and repeat.

The intersection of the two lines marks the exact location of the target.

Beep!

MINELAB

Headphones, Batteries & Charging

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Wireless Headphones

COMPATIBILITY

X-TERRA PRO must be used with compatible Minelab low latency wireless headphones, available as an accessory. ML 85 headphones are recommended — visit the Minelab website to see all compatible options.

For detailed information on pairing and other headphones controls and functions, refer to the instructions supplied with your headphones.

ML 85 instructions can also be downloaded at www.minelab.com/support/downloads/product-manuals-guides

Minelab ML 85 Wireless Headphones

PAIR WIRELESS HEADPHONES

1. Long-press (2 seconds) the Wireless Audio button on the detector to enter Wireless Pairing mode.

 The Wireless Audio button

2. Press-and-hold the Multi Function Button (the centre button) on the ML 85 headphones until the LED flashes red and blue.

3. Your headphones will connect automatically — the Wireless Audio Indicator on the detector will remain on, and the LED on the headphones will flash blue once every 3 seconds.

   If no connection is made within 5 minutes, Wireless Audio will automatically turn Off.

RE-CONNECT PREVIOUSLY PAIRED HEADPHONES

Previously paired headphones automatically re-connect.

1. Press the Wireless Audio button to turn Wireless On.

 The Wireless Audio button

2. Press the Multi Function Button (the centre button) on the ML 85 headphones to turn them On.

3. The headphones will re-connect automatically.

WIRELESS AUDIO INDICATOR

The Wireless Audio Indicator appears on the display when Wireless Audio is On. It displays the current Wireless Audio connection status depending on its display state.

🎧 + The Wireless Audio Indicator

Rapid flashing: Wireless Pairing mode is enabled and searching for nearby wireless headphones.

Solid on: Wireless headphones are paired and connected.

Slow flashing: Attempting to re-connect to headphones that were previously paired.

Wired Headphones

Any standard 3.5 mm (⅛-inch) headphones can be connected to X-TERRA PRO, provided that the headphone connector overmold is less than 9 mm (0.35") in diameter. If it is larger, the connector will not fit inside the waterproof socket.

CONNECT WIRED HEADPHONES

1. Unscrew the plastic dust-cap from the Headphone Socket on the rear of the Control Pod. If it is tight, it can be loosened with a small coin.

2. Plug the headphones into the headphone socket.

   🎧 The Headphone icon will appear on the top right of the detector LCD.

   > ❗ When headphones are not in use, make sure that the waterproof dust-cap on the rear of the Control Pod is screwed firmly into place.

CONNECT WATERPROOF HEADPHONES

X-TERRA PRO is waterproof, and can be fully submerged to a depth of 5 metres (16 feet).

Minelab waterproof headphones must be used for underwater detecting, as they have a unique connector that forms a waterproof seal when used with your X-TERRA PRO.

1. Unscrew the plastic dust-cap from the headphone socket on the rear of the Control Pod. If needed, it can be loosened with a small coin.

2. Make sure that the headphone socket and connector are dry and free from sand, dust, and dirt.

3. Plug the headphones into the socket on the back of the Control Pod.

4. Carefully align the retaining ring over the connector thread and screw them together, making sure no cross-threading occurs.

   🎧 The Headphone icon will appear on the top right of the detector LCD.

5. Lightly tighten the retaining ring.

HEADPHONE SOCKET SUBMERSION

Before detecting underwater without headphones, **always** make sure the waterproof dust-cap is securely fitted to the Headphone Socket.

While the uncovered Headphone Socket is waterproof and can be submerged without immediately damaging the internal electronics of the detector, it can cause corrosion of the socket and false headphone detection.

> ❗ Whenever the Headphone Socket has been submerged, follow all advice listed in "Headphone Socket Maintenance" [page 48].

Batteries and Charging

CHARGER INFORMATION AND SAFETY

X-TERRA PRO is supplied with a USB charging cable with a snap-on magnetic connector.

The charge time from completely flat to 100% is approximately 5 to 6 hours when a high capacity (>2 A @ 5 V) charger is used. A range of charging accessories are available for separate purchase.

Any standard USB port compatible with USB battery charging can be used to charge your battery, however charge times may be longer if using lower-power ports or chargers.

⚠️ **CAUTION:** Charge your detector with a good-quality USB charger that has a minimum charging capacity of >2 A @ 5 V. Risk of USB charger failure if a low-quality charger is used.

Look for the following marks on USB chargers:

⬙ CE EAC ⓔTL
Intertek

⚠️ **CAUTION:** Only charge the detector in ambient temperatures between 0°C and +40°C (+32°F and +104°F).

⚠️ **CAUTION:** DO NOT use the detector underwater whilst charging or when connected to a power bank.

❗ **NOTICE:** Minelab Metal detectors and accessories are not intended to be operated while connected to a mains (AC) charger.

ⓘ Going detecting with a fully charged battery is recommended. Typical battery runtime is approximately 16 hours.

CHARGING THE BATTERY

If the detector is powered On during charging, the charge time will be longer.

1. Plug the supplied charging cable into any standard powered USB-A port.

2. Connect the magnetic connector to the charging interface on the rear of the Control Pod.
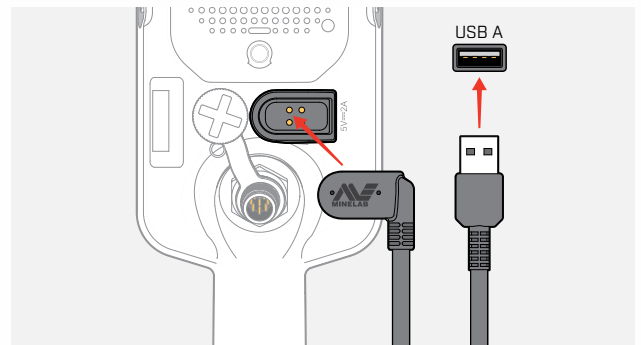
3. The battery will begin to charge. To view the charging progress, refer to either the Charge Status LED (if charging while the detector is Off), or the Battery Level indicator in the Status Bar (if charging while the detector is On).

Charge Status LED

🔆	Charging (flashing)
🟢	Fully charged (on)

Batteries and Charging *(Continued)*

BATTERY LEVEL INDICATION

The Battery Level indicator shows the current battery level.

The Battery Level Indicator (fully-charged state shown)

ⓘ The detector regulates the battery voltage so that detector performance remains constant regardless of the battery level.

Automatic Shut-Down

bF When the battery level is critically low, 'bF' Error Code will appear on the Target ID Display. The detector will then shut down automatically.

See for steps to resolve this error.

OPERATING WITH A POWER BANK

⚠ **CAUTION:** The detector must not be used underwater whilst charging or when connected to a power bank.

You can use your X-TERRA PRO detector whilst plugged into a portable power bank. This means you can continue detecting even if the detector battery is flat.

Connect the power bank to your detector using the supplied USB charging cable, and continue detecting.

BATTERY MAINTENANCE

See .

MINELAB

Errors &
Troubleshooting

MINELAB

Error Codes

Some detector faults will display an Error Code on the Target ID Number field. Try the recommended actions listed before contacting an Authorised Service Centre.

COIL DISCONNECT ERROR

Cd 'Cd' is displayed in the event of a Coil Disconnect Error.

In the event of a Coil Disconnect Error, follow these steps:

1. Check that the coil connector is connected properly at the back of the Control Pod.
2. Check the coil cable for damage.
3. Check the coil for visible signs of damage.
4. Try another coil, if you have one available.

SYSTEM ERROR

System error code 'Er' will be accompanied by an error code number shown on the Frequency Display. The detector will shut down 5 seconds after reporting a system error.

Er 'Er' is displayed in the event of a System Error.

In the event of a System Error, follow these steps:

1. Restart the detector to determine if the error still remains.
2. Confirm the coil is attached correctly.
3. Perform a Factory Reset by powering Off the detector, then press-and-hold the Power button until 'FP' appears on the Target ID Display, then release the button.
4. If the error still remains, return the detector to your nearest Authorised Service Centre for repair.

CRITICALLY LOW BATTERY ERROR

When the battery level is critically low, 'bF' will appear on the Target ID Display. The detector will shut down 5 seconds after reporting a Critically Low Battery Error.

bF 'bF' is displayed in the event of a Critically Low Battery Error.

In the event of a Critically Low Battery Error, follow these steps:

1. Recharge the battery or connect a USB power bank.
2. Contact an Authorised Service Centre to replace the internal battery.

General Troubleshooting

Try the recommended actions listed, in order, before contacting an Authorised Service Centre.

Detector does not turn on, or turns Off by itself (with or without the 'bF' Error Code)
1. Check that the Coil is connected.
2. Charge the detector.
3. Check that the detector is charging and the green Charge Status LED is flashing.
4. Check that you are charging from a USB charging source with a 2 A @ 5 V charging capacity.
5. Check that the magnetic connector and Charging Interface on the back of the Control Pod are clean and free of debris.
6. Check that the USB charging cable is properly seated/connected to the detector.

Erratic and/or excessive noise
1. Move away from local sources of Electromagnetic Interference (EMI).
2. Perform an Auto Noise Cancel.
3. Perform a Ground Balance.
4. Reduce the Sensitivity Level.

No sound — Wired headphones
1. Check that the detector is On, and start-up has completed.
2. Check that the headphones are plugged in and fully inserted into the Headphone Socket.
3. Check that the Headphones indicator is displayed in the Status Bar.
4. Check that Volume is set to an audible level.
5. Unplug the headphones and confirm that the detector Speaker is audible.
6. Check that the headphones connector is free of moisture or debris.
7. If available, try using a different set of headphones.

No sound — Wireless Headphones
1. Check that the headphones are turned On.
2. Check that detector Wireless is turned On and paired with headphones (i.e. the Wireless indicator is steady On).
3. Check that the headphones are charged.
4. Check that the detector Volume is set to an audible level.
5. Check the volume control on the headphones is set to an audible level.
6. Pair the detector to a different set of compatible wireless headphones.
7. Try wired headphones.

Wireless Headphones will not pair
1. Check that the headphones are compatible with your detector — Minelab ML 85 Headphones are recommended.
   Note: Minelab ML 80 and ML 100 headphones are NOT compatible with X-TERRA Pro.
2. Try powering Off the headphones and then re-pair.
3. Ensure the headphones are within 1 metre (3 feet) of the detector Control Pod, with no obstructions between the headphones and detector (including your own body).
4. Move away from sources of interference such as mobile phones.
5. If there are many other wireless devices nearby, pairing may take longer. Move away from the area and try to pair again.
6. Perform a Factory Reset on the headphones and attempt to re-pair to the detector.
7. Pair the detector to a different pair of compatible wireless headphones, then attempt to re-pair the original headphones to the detector.

General Troubleshooting *(Continued)*

Distortion/crackling heard in Wireless Headphones when connected via Wireless

1. Ensure the headphones are within 1 metre (3 feet) of the detector Control Pod, with no obstructions between the headphones and detector (including your own body).

Detector is charging and the Charge Status LED is flashing, but the charge indicator is missing in the Status Bar

1. Check that you are charging from a USB charging source with a 2 A @ 5 V charging capacity.
2. If charging from a lower-powered USB port (such as a laptop port), the detector may be discharging the battery at a faster rate than it is charging. This prevents the charge indicator from appearing. Try charging with the detector switched off.
3. Avoid using a USB extension cable when charging.

Speaker is squeaky or muffled after submersion in cold water

1. Allow up to 30 minutes for the detector internal air pressure to return to normal. Note, laying the detector on the ground with the Control Pod standing up may equalise internal air pressure faster.

Headphone indicator is On, but no headphones are connected

There may be water inside the Headphone Socket causing false detection of wired headphones.

1. Check that the Headphone Socket is clear of water and obstructions.
2. If water is present, use a warm (not hot) air dryer to dry the Socket.

Safety, Care and Maintenance

Detector Care and Safety

GENERAL CARE AND SAFETY

▪ Wash your hands before handling the detector when using sunscreen or insect repellents.

▪ The Display lens is made from quality optical plastic for clear viewing of the screen and is therefore prone to scratching or serious damage if not treated with due care. Application of a screen protector is strongly recommended. Replace it periodically if it becomes scuffed or scratched.

▪ Never clean the Display lens using solvents or alcohol-based cleaners. To clean the Display lens, use a slightly damp cloth with mild soap detergent. Dry with a clean lint-free cloth to remove water-spots.

▪ Do not use solvent or alcohol-based cleaners to clean any part of your detector. Use a slightly damp cloth with mild soap detergent.

▪ Do not submerge the detector in water with the Control Pod disassembled from the shaft, as the battery compartment is only waterproof when assembled to the supplied shaft. Note also that the use of after-market shafts prevents the battery compartment from sealing correctly, causing it to leak/become damaged.

▪ Do not allow the detector to come into contact with gasoline/petrol or other petroleum-based liquids.

▪ Do not bring the detector or accessories into contact with sharp objects as this may cause scratches and damage.

▪ Avoid getting sand and grit in any moving parts including the Shafts, Camlocks and Yoke assembly. If sand and grit accumulates in these parts they should be rinsed in fresh water then dried thoroughly.

▪ Do not expose the detector to extreme temperature conditions. The storage temperature range is from −20°C to +70°C (−4°F to +158°F). Avoid leaving it in a hot vehicle.

▪ Ensure the Coil Cable is kept in good condition, free of strain, kinks and tight bends.

▪ Do not expose accessories not listed as waterproof to liquid/moisture or excessive humidity.

▪ Do not allow small children to play with the detector or accessories, small parts are a choking hazard.

▪ Only charge the detector and accessories according to the instructions provided.

▪ Do not charge the detector or accessories in extreme temperature conditions — Only charge the detector in ambient temperatures between 0°C and +40°C (+32°F and +104°F).

▪ Do not use tools to tighten the Coil Connector to the Control Pod, this will damage the Control Pod. If the Coil Connector is not fitting easily, flush any dirt/grit away with fresh water then allow it to dry before trying again.

▪ Do not attempt to adjust the Coil Connector nut on the back of the Control Pod. This is locked in place and tampering will damage the Control Pod.

▪ Do not poke sharp objects into the Speaker grille to clean it, this will damage the Speaker and compromise waterproofing. Clean the Speaker by flushing fresh water through the grille.

Detector Care and Safety *(Continued)*

MAINTENANCE OF PARTS

Battery Maintenance

Lithium-ion battery performance may degrade if unused for long periods of time. Fully charge the battery at least once every 3 to 4 months to prevent this from occurring.

Even with correct care and maintenance, Lithium-ion battery performance reduces over time with normal use. Therefore the battery may need to be replaced every few years. Replacement batteries can be supplied and installed by a Minelab Authorised Service Centre.

⚠️ **Do not apply any chemicals including O-ring lubricant, grease or silicon grease to seals or O-rings if replacing the internal battery,** as this will damage the battery seal.

Coil Maintenance

The Skidplate is a sacrificial/replaceable part intended to protect the Coil from damage. Replace the Skidplate when it becomes excessively worn, but before it wears through in any place.

After Beach/Saltwater Detecting

Sand is abrasive, and salt can corrode metal parts of the detector over time. Following the listed advice is essential to avoid damage to parts of your detector.

Removing Sand From the Detector

Immediately after detecting at the beach or in saltwater, rinse all parts of the detector with fresh water. Avoid wiping the detector to remove sand as this may cause the sand to scratch the detector.

Open both Camlocks and flush with clean fresh water.

Headphone Socket Maintenance

Immediately after underwater detecting sessions, make sure that the area around the connector is dry and free of sand/mud **before** disconnecting the headphones (or the waterproof dust-cap).

If any sand/mud accidentally gets inside the Headphone Socket, flush it gently with fresh water before drying it thoroughly.

Specifications, Presets & Compliance

Technical Specifications

|	
Search Modes	Park, Field, Beach
All-Metal Shortcut	Yes
Custom Search Profiles	6
Operating Frequencies (kHz)	Park and Field: 5, 10, 15 | Beach: 8
Noise Cancel	Auto (19 Channels)
Ground Balance	Auto, Manual, Tracking
Sensitivity	1 to 25
Target Volume	0 to 25
Threshold Level	0 to 25
Threshold Pitch	Fixed
Target Identification (TID)	119 segment notch discrimination: Ferrous: –19 to 0 | Non-ferrous: 1 to 99
Target Tones	1, 2, 5, All Tones (At), Depth (dP)
Tone Break	Ferrous (t1)
Tone Volume	Tone 1 adjustable: 0 to 25
Recovery Speed	1 to 3
Depth Indicator	5 levels
Discrimination Segments	30 segments (in increments of 4 Target ID's)
Pinpoint Mode	Yes
Wireless Audio	Yes
Length (approx.)	Collapsed: 63 cm (25 in) Extended: 138 cm (54 in)
Weight (including batteries)	1.3 kg (2.9 lbs)
Display	Monochrome LCD
Display/Keypad Backlight	Red | Off, High, Low
Flashlight	On, Off
Vibration (Master and Ferrous)	On, Off
Supplied Coil	V12X 12" Double-D Elliptical coil with skid plate
Audio Output	In-built loudspeaker, Wired 3.5 mm (⅛") headphones, Wireless headphones
Battery	3.7 V/5100 mAh Internal Lithium-Ion battery
Additional Included Accessories	Getting Started Guide, Charging Cable
Waterproof	Waterproof to 5 m / 16 ft, IP68
Operating Temperature Range	–10°C to +40°C (+14°F to +104°F)
Storage Temperature Range	–20°C to +70°C (–4°F to +158°F)
Key Technologies	Pro-Switch™
Warranty	Register your product warranty online at register.minelab.com. Full warranty terms and conditions are available to download at www.minelab.com/support/product-warranty.

Equipment may vary according to the model or items ordered with your detector. Minelab reserves the right to respond to ongoing technical progress by introducing changes in design, equipment and technical features at any time. For the most up-to-date specifications for your X-TERRA® PRO detector, visit www.minelab.com.

Default Settings

General Settings (Global)

🔊	**Volume Adjust**	20
🎯	**Sensitivity**	20
☀	**Backlight**	Off
🔦	**Flashlight**	Off
〰	**Vibration**	Off

Search Mode Profiles

		Park 1	Park 2	Field 1	Field 2	Beach 1	Beach 2
⎍	**Frequency (kHz)**	10	15	10	15	8	8
◎	**Noise Cancel**	Auto (AU)	Auto (AU)	Auto (AU)	Auto (AU)	Auto (AU)	Auto (AU)
⏚	**Ground Balance**	Manual, 0	Manual, 0	Manual, 0	Manual, 0	Manual, 0	Manual, 0
🔊	**Tone Volume**	12, 25, 25, 25, 25	12, 25	4, 25	4, 25	4, 25, 25, 25, 25	4, 25, 25, 25, 25
🔉	**Threshold Level**	0	0	0	0	0	0
🔊	**Target Tone**	5	All Tones	2	All Tones	5	2
✕✓	**Accept/Reject**	✕ –19 to –4 ✓ –3 to 0 ✕ 1 to 4 ✓ 5 to 99	✕ –19 to –4 ✓ –3 to 99	✕ –19 to –4 ✓ –3 to 0 ✕ 1 to 4 ✓ 5 to 99	✕ –19 to –4 ✓ –3 to 99	✕ –19 to 0 ✓ 1 to 99	✕ –19 to 0 ✓ 1 to 99
✕✓	**Tone Break**	–4, 20, 56, 84	–4	–4	–4	0, 20, 56, 84	0
⇄	**Recovery Speed**	2	3	3	3	2	3
〰	**Ferrous Vibration**	Off	Off	Off	Off	Off	Off

Advanced Audio Setting Defaults

		Park 1	Park 2	Field 1	Field 2	Beach 1	Beach 2
🔊	**Tone Volume**						
	1 Tone	25		25		25	
	2 Tones	12, 25		12, 25		12, 25	
	5 Tones	12, 25, 25, 25, 25		12, 25, 25, 25, 25		12, 25, 25, 25, 25	
	All Tones (At)	12, 25, 25, 25, 25		12, 25, 25, 25, 25		12, 25, 25, 25, 25	
	Depth (dP)	12, 25		12, 25		12, 25	
✕✓	**Tone Break**						
	2 Tones	–4		–4		0	
	5 Tones	–4, 20, 56, 84		–4, 20, 56, 84		0, 20, 56, 84	
	All Tones (At)	–4		–4		0	
	Depth (dP)	–4		–4		0	

Factory Reset

The Factory Reset function returns all detector settings, Search Modes, and Discrimination Patterns to their Factory Preset state.

1. Ensure the detector is powered Off.

2. Press-and-hold the Power Button until 'FP' appears on the Target ID Display, then release the button.

FP   'FP' will appear on the Target ID display when Factory Presets are restored.

Software Updates

X-TERRA PRO detectors contain software that can be updated via the supplied USB charging/data transfer cable.

Visit www.minelab.com/support for up-to-date X-TERRA PRO Software and installation instructions.

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DISCLAIMER

The Minelab metal detector described in this instruction manual has been expressly designed and manufactured as a quality metal detector and is recommended for treasure and gold detecting in non-hazardous environments. This metal detector has not been designed for use as a mine detector or as a live munitions detection tool.

MINELAB®, X-TERRA® PRO, Pro-Switch™ and V12X™ are trademarks of Minelab Electronics Pty. Ltd.

COMPLIANCE

To view product compliance information, navigate to the Noise Cancel setting, then press-and-hold the All Metal button.

Refer to the included *Instructions and Safety Information* leaflet for further regulatory information.

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