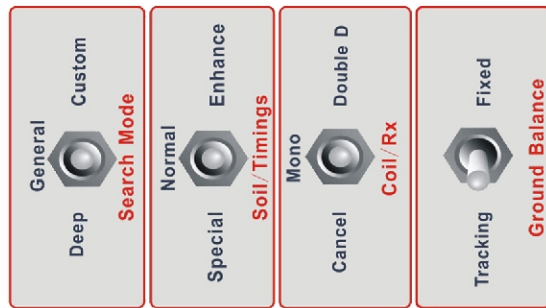


Quick Start

- ❶ Set the front panel switches to the following positions:



- ❷ Push and release the On/Off switch on the rear control panel (pg. 23)
- ❸ Restore defaults (pg. 34)
- ❹ Turn the Threshold (pg. 22) Control clockwise to the red area



You are now ready to start searching!



GPX-5000

Instruction Manual





The World Leader in Metal Sensing Technology

From our origins in 1895, Minelab have specialised in advanced electronic technologies. Our competitive advantage was created almost immediately with a highly competent and innovative Research and Development team, inspired by the genius of Mr. Bruce Candy.

This commitment to innovation has enabled us to successfully market feature packed Consumer coin and treasure detectors enjoyed by hobbyists worldwide as well as high quality gold detectors used by both professionals and amateurs. Minelab's advanced technology is also incorporated in detection equipment designed for military and humanitarian de-mining projects throughout the world.

Today Minelab has manufacturing, distribution and customer service operations in Australia, Europe and the United States, and is an ISO 9001 Quality Endorsed Company ISO 9001 is a worldwide quality standard certification that ensures the highest Level product quality for our customers.



Working for a Cleaner, Greener Future

For Consumers within the European Union: Do not dispose of this equipment in general household waste.

The crossed wheeled bin symbol on this equipment indicates this unit should not be disposed of in general household waste, but recycled in compliance with local government regulations and environmental requirements. Please dispose of this equipment via a recycling service or centre, or by returning the unit to the respective Minelab outlet as appropriate for your unit. This will enable the equipment to be disposed of in an environmentally safe manner.

Disposal of unwanted electronic equipment in land filled waste may contribute to adverse long term environmental effect due to the leaching of contaminating and toxic substances contained within some electronic equipment.

Minelab Electronics Pty. Ltd

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WARNING. This document contains Minelab Electronics Pty Ltd rights, technical data or restricted rights data, or both, Patents and trademarks apply.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Disclaimer:

The Minelab metal detector discussed in this operating manual has been expressly designed and manufactured as a quality hobbyist metal detector and is recommended for use in coin, treasure and general metal detection in non-hazardous environments. This metal Detector has not been designed for use as a mine detector or as a live munitions detection tool.

Please note:

Since there may be a variety of options available for this detector, equipment may vary according to the Model or items ordered with your detector. Certain descriptions and illustrations may also differ (in this manual) from the exact Model that you purchased. In addition, Minelab reserves the right to respond to ongoing technical progress by introducing changes in design, equipment and technical features at any Time.

Technical Specifications

Detector

Transmission	Bi-Level Pulse Induction
Technology	MPS, DVT and SETA
Coil (Standard)	11" Round Double-D
Audio Output	6.35mm (1/4") headphone/speaker socket headphones supplied Wireless earphone (just for V3.0)
LCD Screen	64x128 pixels blue screen Transflective, white backlight
Length	Extended: 1300mm (51.2") Unextended: 1100mm (43.3")
Weight Including 11" Coil, (Excluding Battery and Accessories)	2.4kg (5.3lbs)
Operating temperature range	0°C to 45°C (32F to 113F)
Storage temperature range	-20°C to 65°C (-4F to 149F)

Battery

Type	Lithium Ion
Output Voltage	Output 12.6VDC when fully charged. Max discharge current is 1A
Capacity	2.2Ah
Input (charge)	8-12VDC
Weight	480g
Operating temperature range	0°C to 45°C (32F to 113F)
Storage temperature range	-5°C to 65°C max, preferred: 5°C to 25°C (23F to 149F max, preferred: 4F to 77F)
Battery charge temperature range	0°C to 45°C (32F to 113F)

Warranty

The GPX-5000 control box has a 2 year warranty covering parts and labour.

The GP series/ Commander coils have a warranty for one Year against malfunction.

The commencement of the warranty is the date of purchase. Refer to the Produce Warranty card for specific details.

The Minelab warranty does not cover damage caused by a accident, misuse, neglect, modifications or unauthorized service.

This warranty is not transferable. The enclosed warranty registration card needs to be returned to Minelab Electronics Pty. Ltd. or an authorized Minelab Electronics Pty. Ltd. regional distributor within 14 days of the original purchase date.

If you need to return your detector to Minelab for service, please fill out the Minelab Service Repair Form. Please supply your name, address and phone number along with purchase date and serial number when sending detector parts for repair. Supply as much detail about the fault as possible to assist our service engineers to rectify the problem quickly and efficiently. Return the form with the detector/parts in a cardboard box for protection.

Do not open the control box as this will void your warranty. It is responsibility of the owner to pay all transport costs for the detector to Minelab.

If still under warranty the repaired detector will be returned To the owner freight free.

Congratulations on Purchasing the Minelab GPX-5000

Gold detecting is a fascinating and rewarding activity enjoyed by people all over world. By getting to know your GPX-5000 you can become one of the many who find gold and valuable treasure.

The GPX-5000 is Minelab's most advanced gold detector. It is a high precision instrument incorporating Multi-Period Sensing(MPS), Dual Voltage Technology(DVT), Smart Electronic Timing Alignment(SETA), and the latest in high tech analogue components combined with advanced digital processing.

The GPX-5000 will locate gold in all types of ground, especially highly mineralised ground conditions, with greater efficiency than any previous detector.

This manual is designed to help both the beginner and expert prospector get the best performance out of the GPX-5000.

Minelab wishes you every success in your quest for gold and treasure!

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Taking Care of Your Detector

The GPX-5000 is a high quality electronic instrument. Take care of your detector in the following way:

The control box is water resistant but not waterproof. Keep all electrical connectors clean and dry.

The coil may be used in light rain but take care not to immerse it in water.

The control box and coil should not come into contact with petrol or other oil-based liquids.

Regularly remove loose dirt and dust from the control box using a dry paint brush. Clean the detector shaft and coil with a damp cloth using a mild soap detergent. Do not use solvents.

The coil housing will eventually wear through if you scrub the ground with it while searching. Use of a replaceable skid plate will help to protect your coil. Regularly replace such items as coil washers and skidplates to increase the life of your detector.

To prevent dirt entering between the coil and the skidplate, silk tape(e.g. Leukosilk) which is available from chemists, may be used. The use of some other carbon based tapes, e.g. insulation tape, may result in some loss of sensitivity.

Do not expose the detector to high temperatures or leave it in the sun for longer than is necessary. Shading will help protect it. Do not leave the detector in a closed vehicle, especially in the sun.

Do not open the control box as this will void your warranty. All control box, battery and coil repairs should be sent back to Minelab or a Minelab authorized repairer.

Troubleshooting

No sound	• Check that the detector is on (battery, power cable, connections and LCD) • Turn the Threshold control fully clockwise • Turn the Volume limit to maximum • Check that the earphones are plugged in • Try using a different set of Headphones or a different battery
Threshold but no target signal	• Try testing different coils with a known target
Random noise	• Ground Balance again • Re tune using the reset button • Reduce Gain • Move away from other detectors working nearby • Move away from thunderstorm build-up
Battery will not charge	• Check that there is power to the accessories socket using vehicle charger • Check the battery LED patterns
Battery not holding charge	• Try an alternative charger adaptor • Change the battery
If the parameter is disorder, you donot know how to adjust	• Restore factory defaults

GPX-5000 Introduction

GPX-5000 using Minelab company's advanced "dual-voltage technology." Ensure balance for all types of ground, and accurately detect the highest Sensitivity and maximum depth, GPX-5000 to Move the probe and detection of a combination of static, when the detection of relatively large size of the metal plate when you do not need to move the probe, and to maintain the detection signal for some time. GPX-5000 system, there are three commonly used parameters of the built-mode selection, which can eliminate interference for the detection of different geological conditions, but also greatly improves the operation of the simplicity and convenience. Compensation process through dynamic signal, SETA to ensure the improvement and maintenance of stability limits, allowing you maximum efficiency in any condition to operate GPX-5000. With the new improved pulse detection, GPX-5000 can be found in a different situation on the ground metal More Convenient than ever.

Features Overview

Detection mode

Are full metal detection (GND Balance) and metal identification (Discrimination) modes, all-metal detection mode for all metal detectors are equal responsiveness, identify patterns in the metal, the only non-ferrous metals (such as gold, silver) reaction is very sensitive, you can rule out the iron

Receive Gain

Receive gain function setting the overall level of detector sensitivity. Soil conditions in the temperate regions, you can increase the sensitivity in areas with poor soil conditions can reduce the sensitivity.

Balance mode

There are two operating modes: the external balance and internal balance, the original time you use the detector more moderate in the environment, you can use built-in balance mode. In most cases MINELAB companies are recommended to use an external manual adjustment to balance mode, reducing environmental disturbance.

Parameter mode

System menu has a series of search modes to choose from. Including the stable, standards-based, sensitive type, user-defined type. The first three models to facilitate first-time users of metal detectors, custom-based detection can meet the senior user's preferences. Ensure that every user can detect a hobby easy access to MINELAB company's metal detectors.

Target volume and alarm frequency

By controlling the built-in amplifier, the amount of the target signal. Through headphones and external speakers. The size of the target can also be used to reduce ground interference signals. Sound the alarm with the target frequency can be varied in size and can easily distinguish the true and false signal detection signal.

Menu Function Introduction

Battery Remain
80%
Restore Default
No/Yes

Restore factory defaults

When you are within the parameters of the probe is not very understanding or mixed up the time no longer works, you can RESTORE DEFAULT menu parameters to factory settings, and then based on your personal preferences can be used To adjust for equal machines work properly.

List of Factory defaults

Menu	Optional Parameters, Duplex Optional For Factory Defaults										
Work Mode	GND Balance				Discrimination						
Parameter Mode	Steady		Normal		Sensitivity				Custom		
Threshold	0	10	20	30	40	50	60	70	80	90	100
Rx Gain	0	10	20	30	40	50	60	70	80	90	100
GND Balance	0	10	20	30	40	50	60	70	80	90	100
Volume Limit	0	10	20	30	40	50	60	70	80	90	100
Alarm Audio	Fixed		Alterable								
Audio Tone	0	10	20	30	40	50	60	70	80	90	100
Alarm Metel	Non-ferrous			Gold		Silver					
Alarm Type	Continuance				Threshold						
Alarm Threshold	0	10	20	30	40	50	60	70	80	90	100
Alarm Device	Earphone			Wireless							
Wireless Frequency	88-108MHz			---							
Back Light Time	0	15Sec		30Sec		60Sec					
Battery Remain											
Restore Default	Yes	No									

Menu Function Introduction

Alarm Device

Earphone

Wireless Freq.

Alarm Device selection

GPX-5000 offers wire earphone alarm and Wireless earphone output device options to meet The diversity of user needs. When you select the Earphone alarm device, alarm sound through the Power box on the 6.35mm headphone jack output To headphones or speakers, when you select wireless alarm settings, through the wireless FM menu, the frequency modulation of electromagnetic waves will be launched to the random Distribution Of wireless headphones on listening

Back Light Time

15/30/60/0Sec.

Battery Remain

80%

LCD Bback Light setting

To save and to meet different requirements under ambient light, GPX-5000 LCD screen back light can be set length of time, there 15Sec, 30Sec, 60Sec, 0 (normally open) several models.

Battery Remain

This menu just for inquire about battery Capacitance

Features Overview

Set the alarm metal

With the identification of metal MINELAB proprietary technology, the machine is different from other companies, the biggest advantage is that similar equipment can distinguish the type of metal (ferrous and nonferrous metals), and can accurately identify the gold, you can identify the mode alarm set according to type of metal, such as gold or silver only alarm, this function menu in the ALARM METAL set.

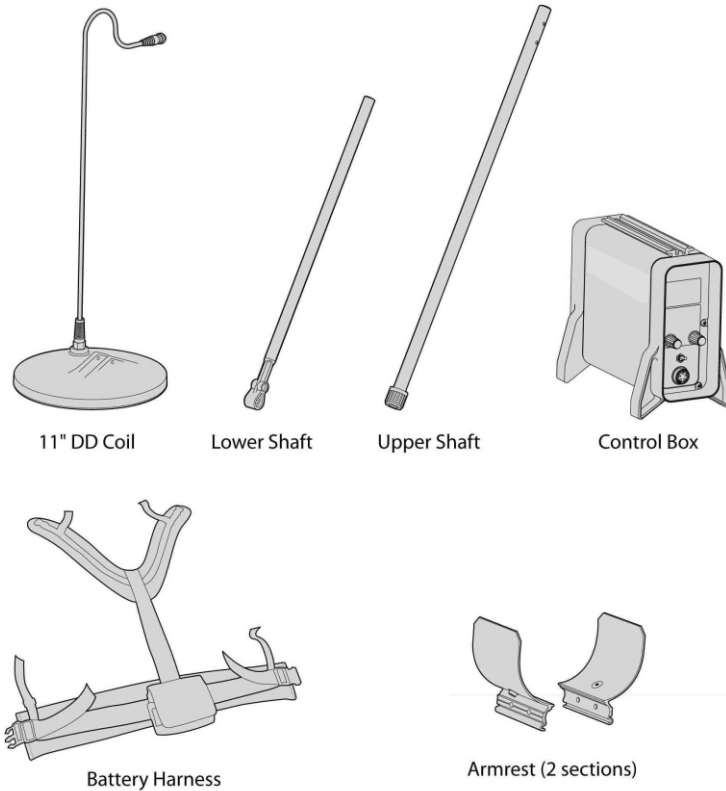
Alarm

Through the menu settings, you can choose the alarm mode and alarm threshold values □□for the continuous alarm mode, select the continuous alarm sounds when the alarm is a continuous change in size, the greater the volume the stronger the signal; when you select the alarm threshold value, only when the signal intensity reaches the value set alarm sounds after the alarm size is fixed, and is independent of the metal, when the alarm sounds if you want to change the size, can only be changed by adjusting the VOLUME LIMIT.

Alarm equipment

By Alarm Device menu, you can select alarm output device, select Internal, the alarm sound can be from the battery box 6.35MM the headphone jack output; when selecting RF, the alarm sound can be sent via radio frequency to the random distribution wireless headset, and transmit frequency can be adjusted to avoid interference with surrounding electronic equipment, with the wireless headset may be reduced by the inconvenience of wired headsets.

List of Parts



Menu Function Introduction

Alarm Metal

Nonferrous/Gold/silver

Alarm Type

Continuous

Set the alarm the metal category

This menu is recognized only when the operation mode mode, it can be set, there are three options to choose from, ordinary non-ferrous metals, gold, silver, only when the detection signal to a corresponding set of metal detectors will be issued after the alarm sounds, you can Completely rule out the detection of iron and only response to non-ferrous metals

Alarm Type

Continuous

Threshold Point

50

Alarm Type setting

Two alarm type, The machine is preset to a continuous alarm mode, that is, when there are signals to audible, but the alarm related to the size and signal strength, the stronger the signal louder. Another system provides a threshold alarm mode, when the signal strength exceeds a set threshold will be issued after the coax light detector alarm of the alarm sound this time independent of the size and signal strength. This feature can significantly facilitate the users to detect the target.

Threshold Point

50

Alarm Device

Earphone

Alarm threshold Point Settings

When the alarm threshold is set to alarm mode, the alarm threshold can be manually adjusted to the appropriate threshold is set too high may exclude some of the ground some false signal interference and improve stability.

Menu Function Introduction

Alarm Audio

Alterable

Audio Tone

50

alarm audio settings

detector offers two alarm audio options, fixed audio, and variable audio alarm sounds when you select fixed audio mode, to detect the target object, the sound frequency is fixed.

When you select a variable audio, you can set the alarm by AUDIO TONE menu sound reference frequency to suit the different needs of the user's hearing. When the object is detected, the alarm sound frequency and sound with the object size and distance from the change, It is easier to determine the location of The object.

Audio Tone

50

Alarm Metal

Audio Tone is the pitch of the Threshold emitted by the detector.

Large, deep targets produce a different response to small, shallow targets. It is important to adjust the Audio Tone to suit the type of target you are searching for.

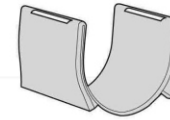
A high Audio Tone setting may help identify small targets from ground signals, but a low Audio Tone setting may allow deep target signals to stand out.

You may find that you hear targets better in a particular range of Audio Tone. To produce the most audible target signal for your hearing try using a large and small target to adjust the Audio Tone.

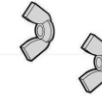
List of Parts



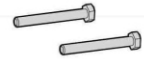
Armrest Straps



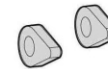
Armrest Cover



Armrest Wingnuts



Armrest Bolts



Lower Shaft Washers



Lower Shaft Wingnut



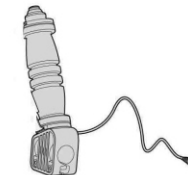
Lower Shaft Bolt



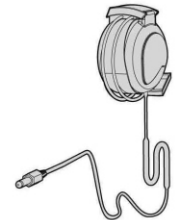
Lithium Ion Battery



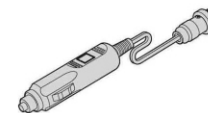
Power Cable



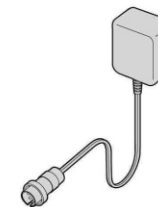
Handle
(with Quick-Trak
Button)



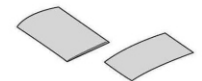
Headphones



Vehicle Charger Adaptor



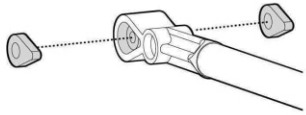
Mains Charger Adaptor



Instruction Manual

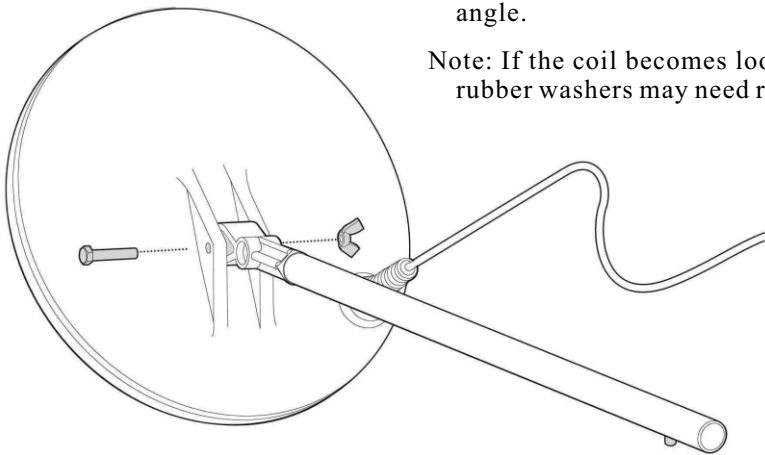
Assembly

Attaching the Coil to the Lower Shaft:



- 1 Plug the two rubber washers into the holes on either side of the lower shaft.
- 2 Ensure that the spring loaded pin of the lower shaft is pointing downwards. Slide the lower shaft into the bracket on top of the coil.
- 3 Insert the bolt through the lower shaft and the bracket on top of the coil. Fasten with the nut provided; being careful not to damage the thread of the nut by over-tightening. This may need to be loosened to adjust the coil to a comfortable detecting angle.

Note: If the coil becomes loose over time the rubber washers may need replacing.



The Coil cable is directly wired into the coil and is not removable. Any attempt to Disconnect this cable will void your warranty

Menu Function Introduction

Volume Limit
50
Alarm Audio
Alterable

Volume Limit is the maximum level of sound emitted by the detector when a target is detected.

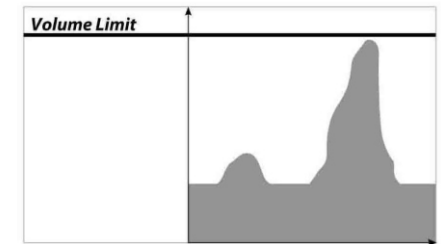
If the Volume Limit is set to maximum all Target Signals will be heard, and will sound proportional to the target size and depth. Maximum limit allows you to hear the difference between a small and large target, but may be uncomfortable to your hearing if a large is found close to the coil.

If the Volume Limit is set to half-way the target signal is unaffected for a small target But limited for a very large Target.

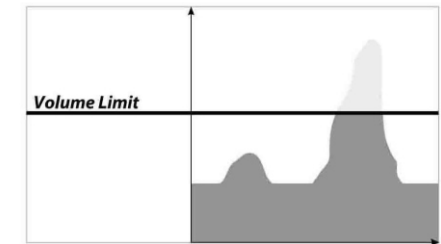
If you Volume Limit is set to minimum most Target signals will potentially be very limited. A low volume will be more comfortable on Your hearing but will increase the risk of Missing small targets.

Try using a large and small target to adjust the Volume Limit to a comfortable level.

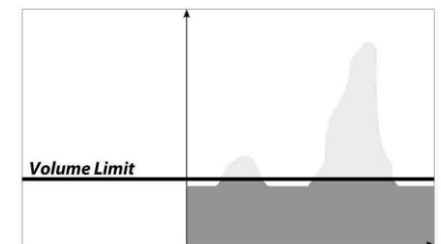
Note: The Threshold may need to be reset if adjusting the Volume Limit to A low setting.



Maximum Volume Limit:
Faint and loud signals
are unaffected

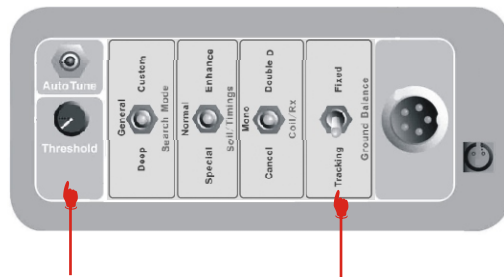
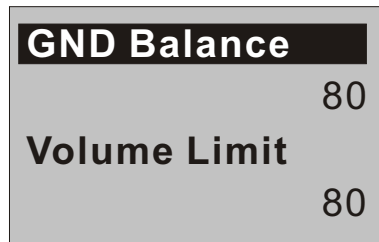


Mid-Range Volume Limit:
Faint signals are unaffected
but loud signals are limited.



Minimum Volume Limit:
Both loud and faint signals
are reduced to quiet levels.

Menu Function Introduction



GND Balance

Divided into Fixed and Tracking balance mode, the two modes, usually only suitable for fixed balance to soil in more moderate environments, or the primary user, with the detection of regular upgrade, MINELAB company recommended Tracking balance model, This more accurate detection of different environments to find the exact point of balance. To a new probe for each environment, the need to find a balance.

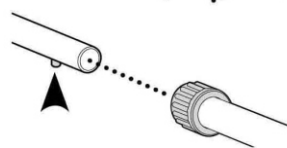
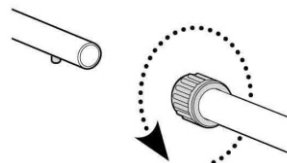
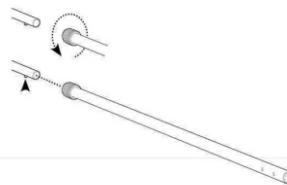
Adjustment method:

Set Work Mode to GROUND BALANCE, and push "Ground Balance switch" to Tracking, then Rotate the THRESHOLD turn button on the front panel to MAX, raise the search coil, then lower it after setting the "Threshold sound", if the volume rises; Rotate the turn button to MIN a little, then do as above, if the sound falls. This experiment confines That the volume changes while rotating THRESHOLD between two sides of the scale, so there must be a point at which the sound keeps steady. this point is The "ground balance point" we set.

Follow these steps to set "Ground Balance Point":

1. Set Work MODE to "GROUND BALANCE";
2. Stop the search coil about 24inch above the ground, set the "Threshold sound";
3. Lower the search coil about 8inch above the ground: if the volume rises, raise the search coil(about 24inch)and rotate the THRESHOLD turn button counter clockwise to try, if the volume falls. rotate it counter-clockwise a little till the sound gets steady. If the volume falls when we do as above. rotate it clockwise till the sound gets steady.
4. No matter you tune the volume, it still rises, witch expresses there are metals in this area, try another area to adjust.
5. Press the "Smart Switch" firstly before raising the search coil to set the "Ground Balance", lower the search coil after tuning the "Ground Balance" and relieving the "Smart Witch Button".

Assembly



Attaching the Lower Shaft to the Upper Shaft:

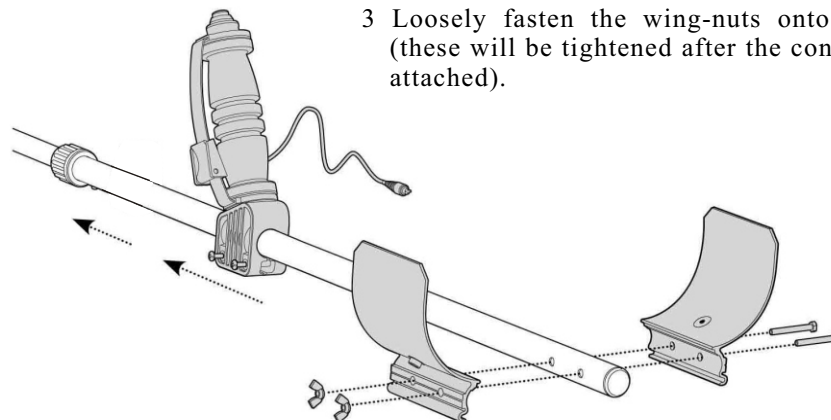
- 1 Rotate the twistlock of the upper shaft counter-clockwise to ensure it is loosened
- 2 Compress the spring loaded pin of the lower shaft. Slide the lower shaft into the upper shaft until the pin reaches an adjustment hole. The pin will spring out and clip into place.
- 3 Rotate the twistlock clockwise to clamp the lower shaft and prevent movement.

Attaching the Handle to the Upper Shaft:

- 1 Slide the bungy cord clamp onto the upper shaft.
- 2 Slide the handle onto the upper shaft so it slopes away from you, as seen below.

Attaching the Armrest to the Upper Shaft:

- 1 Place the two armrest halves on either side of the upper shaft, aligning the armrest and upper shaft holes.
- 2 Insert the bolts through the armrest and upper shaft holes.
- 3 Loosely fasten the wing-nuts onto the bolts (these will be tightened after the control box is attached).



Assembly

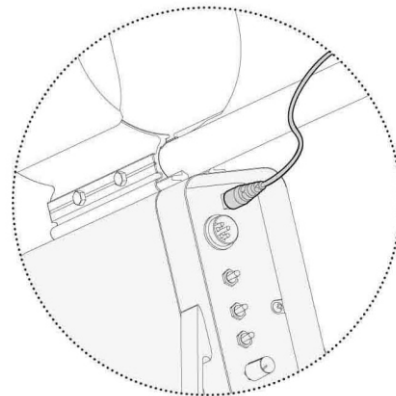
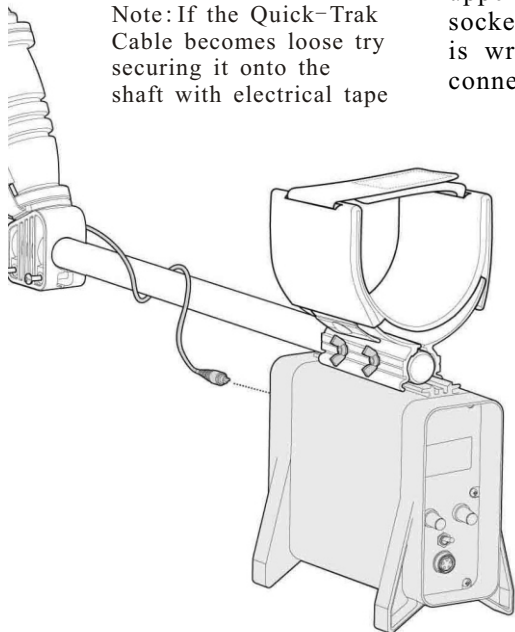
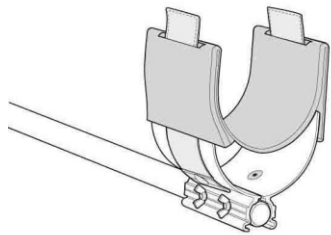
Attaching the Armrest Strap to the Armrest:

- 1 Press both strap studs onto the armrest studs.
- 2 Push the armrest straps through the slots in the armrest cover and then slide the cover over the armrest.

Connecting the Control Box to the Upper Shaft:

- 1 Place the detector on a flat surface, with the handle facing upwards.
- 2 Position the armrest on top of the control box.
- 3 Clip the control box onto the armrest, ensuring the battery plug faces away from the coil.
- 4 Fasten with the wing-nuts.
- 5 Wind the Quick-Trak button cable around the upper shaft and plug it into the Smart Point socket in the control box. Ensure that the cable is wrapped firmly but avoid strain on the connector.

Note: If the Quick-Trak Cable becomes loose try securing it onto the shaft with electrical tape



Menu Function Introduction

Rx Gain

50

GND Balance

80

The Rx Gain function allows the GPX-5000 to be optimized for differing conditions; controlling the sensitivity of the detector to its environment and targets.

With a high Rx Gain setting the detector will pick up smaller and deeper targets, but may respond to unwanted noise and ground signals. A high Rx Gain setting is recommended for mild soil conditions and areas of low interference.

With a low Rx Gain setting the detector will pick up less unwanted noise and ground signals, but may miss deep targets. A lower Rx Gain setting is preferable for variable, 'noisy' conditions or high interference areas.

The Rx Gain control should be adjusted to suit the soil conditions and the coil being used. For example, if you have found some nuggets in an area and wish to detect the same spot with a larger Monoloop coil it may be necessary to reduce the Rx Gain setting.

Always ensure the detectors is properly ground balanced, and tuned, before making any changes to The Rx Gain setting.

Menu Function Introduction

Assembly

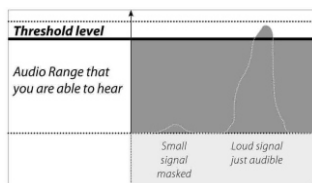
Threshold	
Rx Gain	30
	50

Threshold is the constant audible background tone or 'hum' produced by the detector. The Threshold is your reference point and lets you know what the coil is picking up. Whether it may be a target, ground noise, or electrical interference, so it is important to set the threshold so it can be heard.

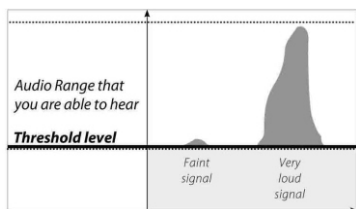
The level of the Threshold should be set low, but still audible and stable. Ideally it should be a smooth, gentle hum. If you set it so that it can't be heard you may set other detector settings incorrectly.

Small targets or large deep targets may not produce a distinct target signal, but may cause only a small variation in the Threshold. If the Threshold level is set too high or too low these very small variations may be missed. Listening for a target signal with a high Threshold would be like trying to hear a whisper within a crowded noisy room. A high Threshold may also be uncomfortable to your hearing.

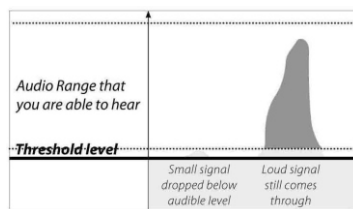
If the Threshold is set too low the target signal needs to be loud enough to become audible. Therefore, very soft target signals, from small or very deep targets, may not be heard. It is important to reset the Threshold level as conditions change. For example, your ears may adjust to the low levels of audio after an hour or so, or the conditions may



When the Threshold is too high a faint signal is masked and only the peak of the loud signal is audible above the Threshold.



With the Threshold set correctly both target signals are easily heard.



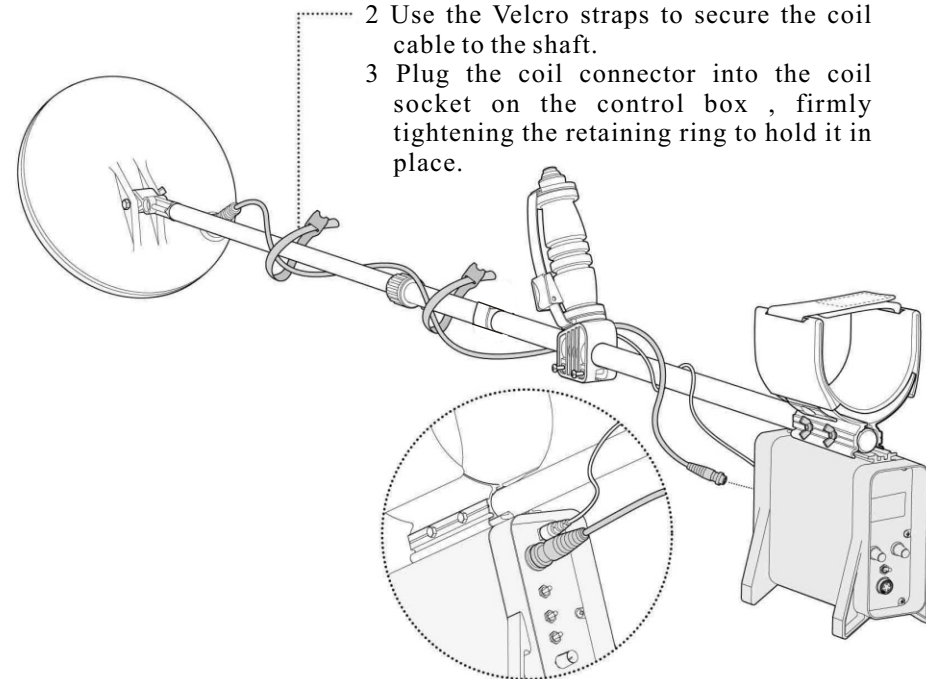
A Threshold level that is too low does not allow faint target signals to be heard.



Always ensure that the control box is turned off before connecting or disconnecting the coil to avoid damage to the detector's electronics.

Connecting the Coil Cable:

- 1 Wind the coil cable around the lower and upper shafts enough times to take up the slack. Leave enough slack at the bottom of the cable near the coil to allow the angle of the coil to be adjusted while detecting.
- 2 Use the Velcro straps to secure the coil cable to the shaft.
- 3 Plug the coil connector into the coil socket on the control box, firmly tightening the retaining ring to hold it in place.

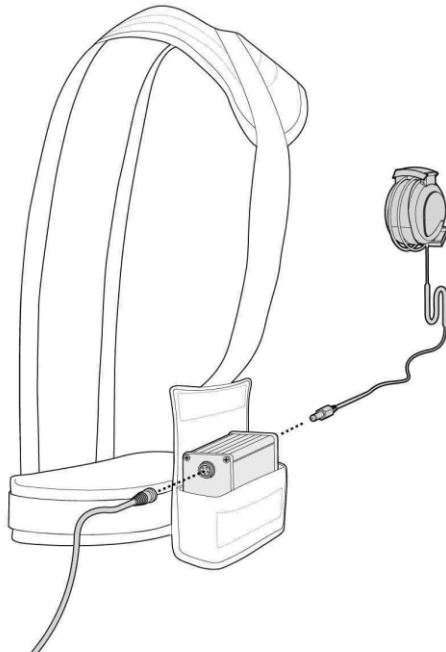


Assembly

Connecting the Battery Pack:

- 1 Place the battery into the battery harness pouch.
- 2 Connect the headphones and the power cable to the appropriate sockets in the battery.

Note: The illustration shows the battery orientated for a user holding the detector with their left hand.



Caution: The battery should initially be charged for 8 hours before use.

Menu Function Introduction

Work Mode

GND Balance

Parameter Mode

Normal

Work mode - Set the detector mode

Balance model, also known as all-metal mode, in this mode, the detector response for all the sensitivity of metal are equal. Need to detect when a region generally use this mode, only to find in this mode of Metal target.

DISC Mode. If you want to discriminate a meta target using DISC Mode, also known as metallic iron exclusion mode, when the detection process to find a metal target, this mode can be used to distinguish between the target and confirmation of this model can also be used in a large number of charges you want to find out the old metal heap To the metal, while iron and other metals do not react in this mode can also set the alarm sound values, such as gold and silver you need To sound the alarm so you can freely set.

Parameter Mode

Normal

Threshold

30

PARAMETER MODE

GPX-5000 machine built-in program provides a stable, standard, sensitivity-based mode and three standard parameters of user-defined parameters of a model to facilitate first-time users of metal detectors or detector performance when you know the time has not gone far enough The rapid use of detectors. The first three modes selected, the user can not be on the threshold, sensitivity and balance the set, these parameters only when you select when you can set a custom

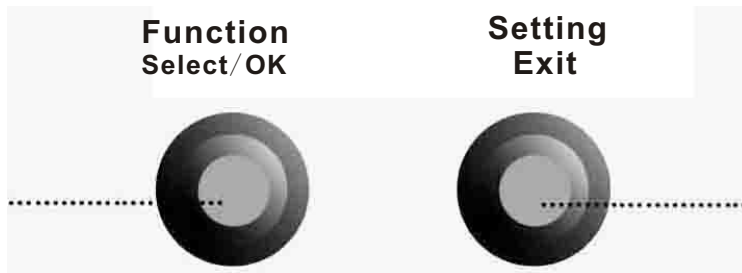
Stable pattern, more complex soil environment suitable for the geographical exploration

Standard mode. Suitable for most environments

Sensitive type of model, suitable for the geographical environment, detecting more moderate soil

Custom mode, this mode, the user can detect the environment according to the needs and personal Preferences, settings for all parameters.

Introduction Encoder



Function selector (FUNCTION SELECT encoder)

Through a rotary coding switch, the function menu movement, clockwise rotary encoder, the function menu scroll down to Rotate function menu page up, this is another function of the encoder is possible to set good parameters for To save.

Title

That is what you are setting the type of function, the alignment of the title to the left screen displayed on the LCD

Functional Model

A high brightness, the right alignment of the screen displayed on the LCD, Under a different menu with different options, you can set the encoder functions of mobile options, and then select the encoder function key functions to confirm. Navigational aids: the function that your current settings menu in the menu list in which the approximate location

Feature set (SETTING encoder)

When a function menu is selected, can be rotated to set the encoder to move between the various options, back turned clockwise, against the clock turned forward until the date you want the function mode, then the encoder function selection The key functions of the parameters to be saved. Another key feature set when you press the encoder function, you can exit the function set to return to standby mode

Assembly



Caution: Never re-wire your headphones so that they are similar to the external speaker as the audio level may damage your hearing.

Note: After market

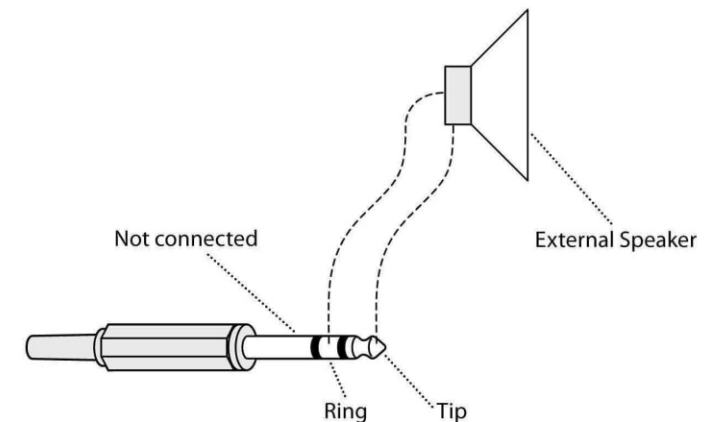
accessory boosters may not operate in conjunction with this built in amplifier. However, the detectors 'Target Volume' adjustment allows you to adjust the target signal volume and threshold, so accessory boosters are unlikely to be Needed.

Making use of the GPX-5000 Amplifier:

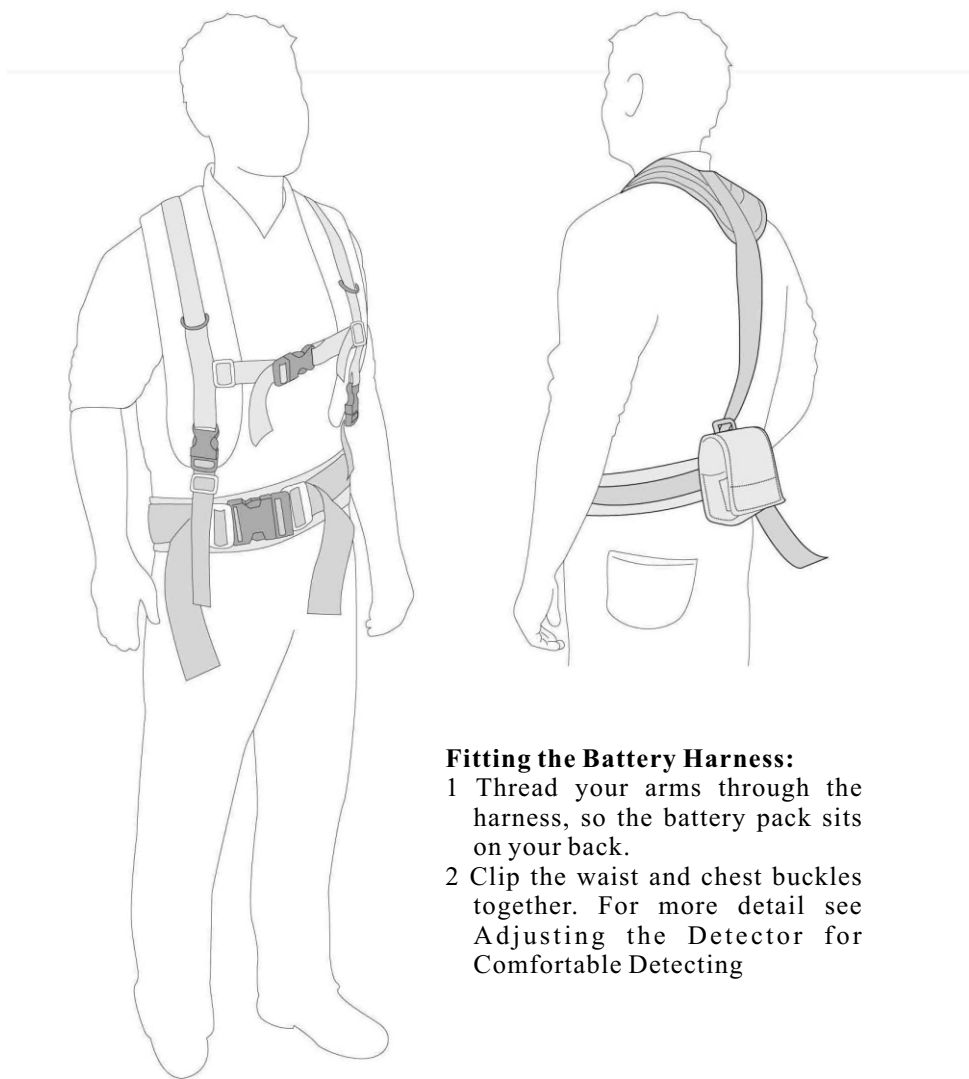
In previous Minelab detectors if a speaker was used, instead of headphones, the audio level Would be significantly reduced. Now, the new Minelab Lithium Ion battery contains an Additional amplifier which automatically increases the audio level when a correctly wired speaker is used.

The new Minelab Lithium Ion battery will automatically detect if headphones or a speaker is in use and adjust the audio level Accordingly.

See wiring diagram below for correct speaker to audio jack wiring.



Assembly



Fitting the Battery Harness:

- 1 Thread your arms through the harness, so the battery pack sits on your back.
- 2 Clip the waist and chest buckles together. For more detail see Adjusting the Detector for Comfortable Detecting

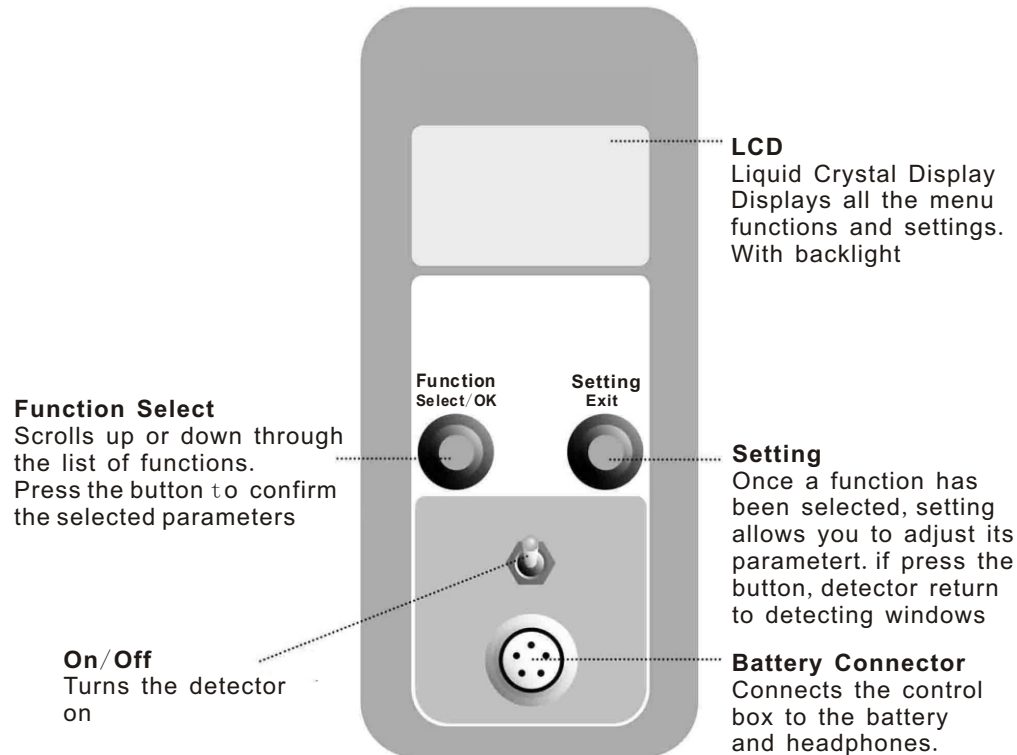
LCD Menu Structure

Many of the GPX-5000 functions are accessed through the LCD Menu. These are explained in further detail throughout the rest of this manual.

Until you become more familiar with the GPX 5000, the detector can simply be operated with the Factory Presets and the Front panel controls.

Function	
Work mode	GND Balance
Parameter Mode	Normal
Threshold	50
Rx Gain	50
GND Balance	80
Volume Limit	80
Alarm Audio	Fixed
Audio Tone	50
Alarm Metal	Gold
Alarm Type	Continuous
Alarm Threshold	60
Alarm Device	Earphone
Wireless Freq.	----
Back Light Time	15Sec.
Battery Remain	80%
Restore Default	No

Rear Control Pannel



Adjusting the Detector for Comfortable Detecting

Note: For comfortable. Long term detecting, it is important you take the time to adjust the Detector correctly.

Holding the Detector:

Thread your arm through the armrest and strap. Grasp the handle of the detector and rest your forearm in the armrest.

Adjusting the Position of the Handle:

Your elbow should sit just above the back of the armrest allowing you to comfortably grip the handle. Slide the handle into position. Using screwdriver, tighten the two screws which hold the handle onto the shaft. Adjust the handle strap to a comfortable position.

Adjusting the Length of the Lower Shaft:

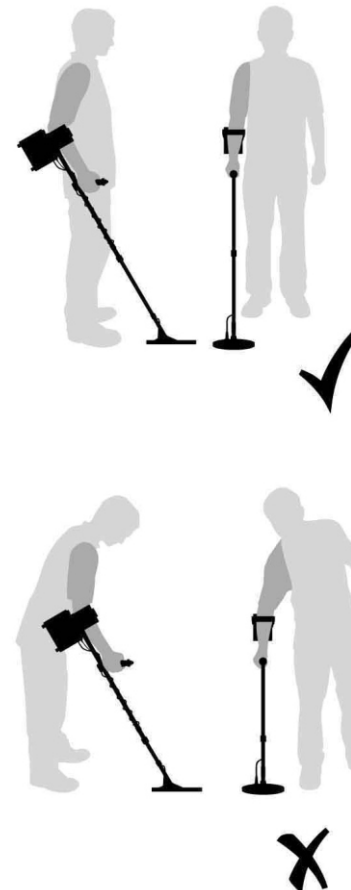
If the coil is too far from your body it will be difficult to balance and manoeuvre while Detecting.

If the coil is too close to your body it may detect your pick, the battery, or any other metal which you are carrying; causing confusing sounds.

Rotate the twistlocks of the shafts counter clockwise to ensure that they are loosened

Compress the spring pins of the shafts and move them up or down to suit. Once all shafts are clipped into position. Rotate twistlocks clockwise onto the shafts until they are firmly clamped.

The correct length of the lower shaft should allow you to swing the coil in front of your body without any uncomfortable stretching or stooping.



Adjusting the Detector for Comfortable Detecting

Tip: Some operators may find it more comfortable to fit the battery around the waist. However, make sure the GPX-5000 is not detecting a signal from the battery. If using a large coil, position the battery as high up on your back as practical (and comfortable) to avoid any unwanted interference.

Adjusting the Battery Harness:

A comfortable fitting battery harness will ensure the longest detecting session possible without fatigue.

Ideally the battery should be placed on your back so that it counter-balances the weight of the detector. You should be able to reach the switches of the detector without putting excess strain on the bungy cord.

Pull the straps outwards and downwards to tighten. Push the straps back through the buckle to loosen.

The harness may also be adjusted around your body by threading the front straps through different loops on the waistbelt.

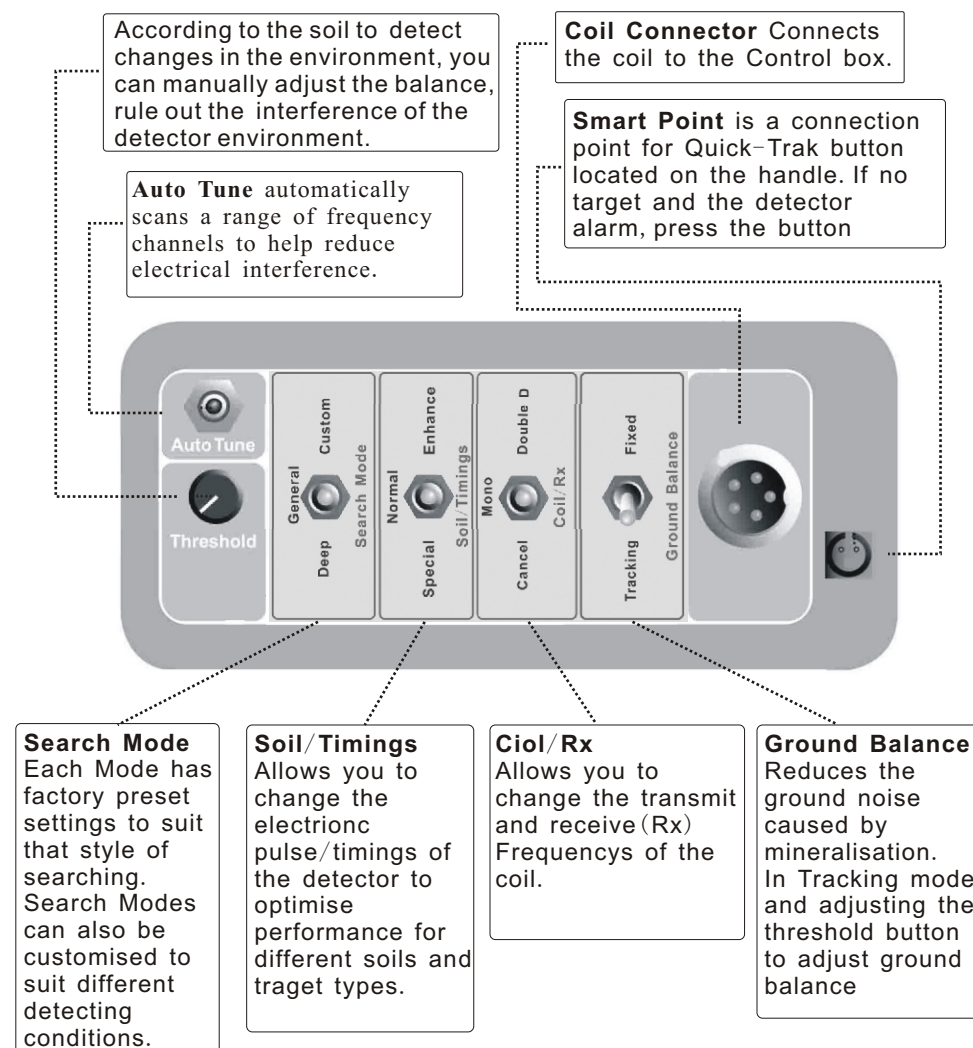
Adjusting the Bungy Cord Clamp (Bow Knuckle):

The correct position of the bungy cord clamp (bow knuckle) along the shaft can help take the weight of the coil.

Loosen the clamp screw so it can slide along the shaft. Slide it to a position that feels most comfortable for you.

Note: You may need to change the length of the bungy cord, or the position of the bungy cord clamp, when you change coils or detect on sloping ground.

Introduction of Front Panel



Detecting Basics

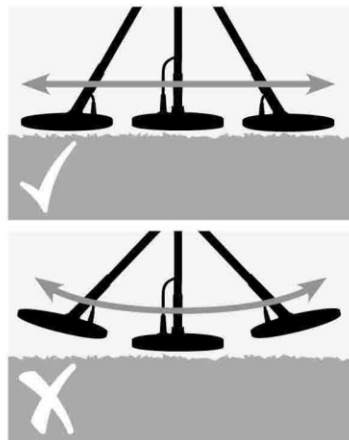
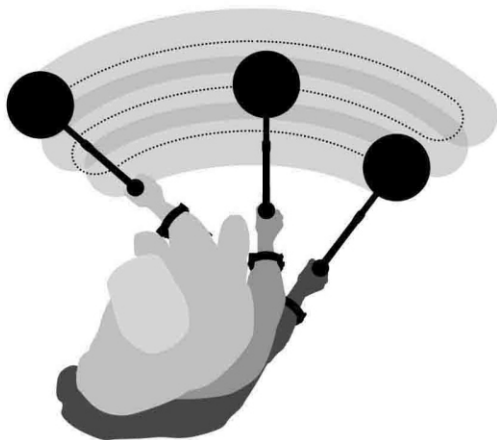
Note: The GPX-5000 is a 'motion' detector. This means it must be moving over a target to detect it.

The GPX-5000 will perform at its best when the coil is kept close and parallel to the ground at all times. This increase the detection depth and target response to small objects.

A variation in coil height at the end of each swing may cause confusing sounds and reduce detecting depth; an even flat sweep is desirable.

Practise sweeping the coil over the ground in a side-to-side motion, while walking forward slowly at the end of each sweep. Slightly overlap the previous sweep to ensure full ground coverage. An average sweep speed is four seconds from left to right to left.

Tip: When using a Monoloop coil more overlap is required to ensure that targets at maximum depth are not overlooked.



Charging the Battery

**Colorful LED lights that are charging,
Colorful LED OFF means fully charged**



The aluminium battery case contains the 12V Lithium Ion (Li-Ion) battery pack and an internal charging circuit. Supplied with the GPX-5000 is a mains charge adaptor and a 12V vehicle charger adaptor.

When fully charged, the battery will provide enough power to operate the detector for approximately 12 hours.

Tip: A spare battery is available as an accessory. if travelling into remote areas a spare battery will ensure you can continue detecting for long periods of time.

The charger will recharge a flat battery in approximately 5 hours, but partially discharged batteries require a shorter recharge time. There is no need to fully discharge the Li-Ion battery before recharging, it can be recharged at any time you are not detecting.

Note: Some after market coils can drain the battery at a higher rate which may reduce Your operating time by up to 30%.



Mains Charger Adaptor

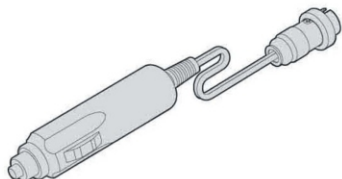
The mains charger adaptor will charge the battery from local mains (AC) power outlets.

To Charge with the Mains Charger Adaptor:

- 1 Disconnect the power cable from the battery.
- 2 Connect the mains charger adaptor to the battery power plug and the wall socket.
- 3 Switch the wall socket on.

The colour scheme of the tri-colour LED will Indicate the status of the charging process.

Charging the Battery



Vehicle Charge Adaptor

The vehicle charger adaptor will charge the battery from the accessories socket (cigarette lighter) of most motor vehicles. The socket must be 8–12 VDC.



To prevent damage to the battery, do not start the vehicle's engine while the battery is connected.

Make sure your vehicle's battery is in good condition before using it to charge the GPX-5000 battery.

To Charge with the Vehicle Charger Adaptor:

1 Disconnect the power cable from the battery.

2 Connect the vehicle charger adaptor to the battery and to the vehicle accessories socket.

The colour scheme of the tri-colour LED Will indicate the status of the charging process.

Note: Don't leave the battery on charge in a closed vehicle on a hot day as it is temperature Protected and will stop charging.



Caution: The battery should initially be charged for 8 hours before use.

Taking Care of Your Battery

The Lithium Ion battery is specifically designed for the GPX-5000.



The lithium ion battery is not compatible with non GPX detectors. The GPX-5000 is supplied with a power lead which has been specifically designed to fit GPX detectors only. Attempting to use the Lithium ion battery pack with other detectors may damage the detector or the battery pack. Do not try to adapt this battery to other models as it will very likely cause damage.

- Do not charge the battery at temperatures above 45°C (113°F).
- Do not charge the battery at temperatures below 0°C (32°F).
- Do not leave the battery in hot conditions (e.g. on the dashboard of your car or rear parcel shelf).
- Do not immerse the battery in any liquid or allow water ingress.
- Do not throw the battery or impact it in any way.
- Do not short-circuit the battery.
- Do not use the battery if it is damaged or deformed.
- Do not disassemble or reconstruct the battery.
- Do not incinerate the battery.

In the event of a fault, you should return the battery to a Minelab authorized service centre for repair.

The use of non-approved components will **VOID YOUR WARRANTY.**

There are no user serviceable parts within this battery pack.