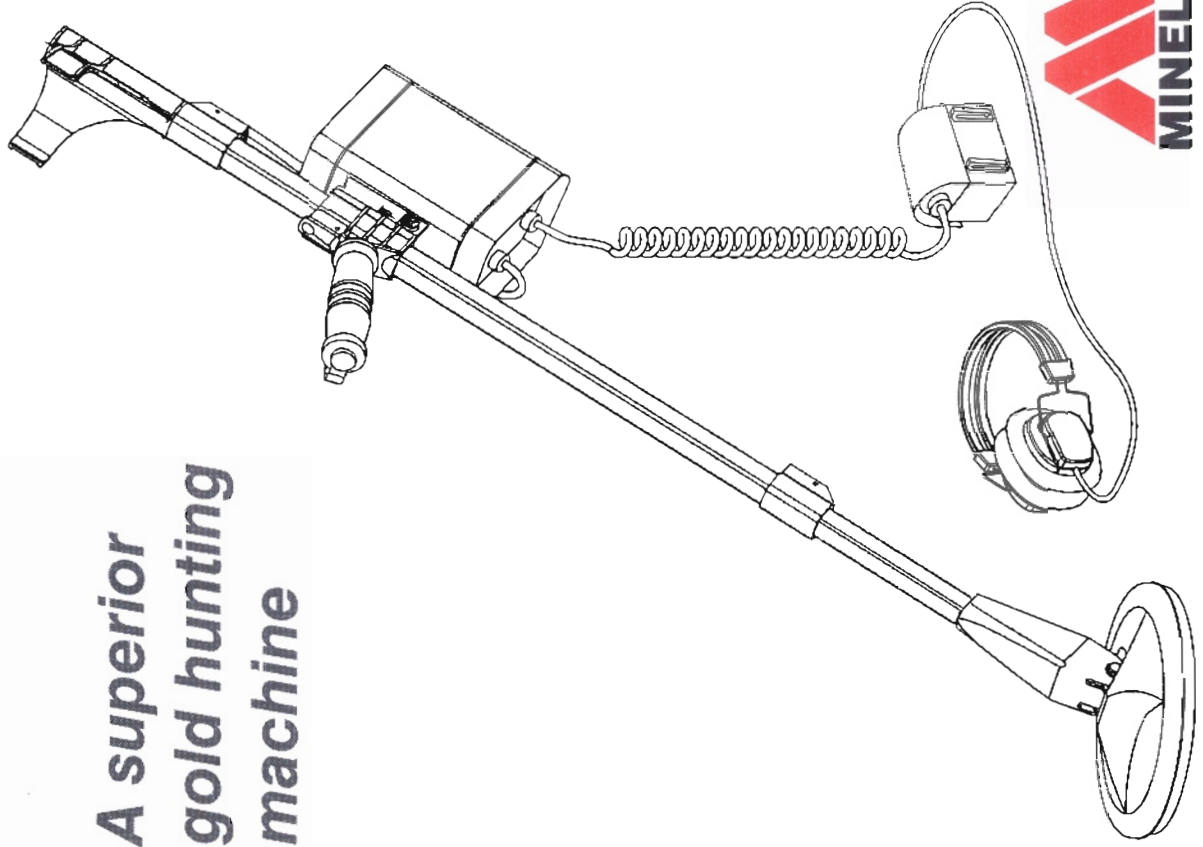


The Minelab Golden Hawk Gold Detector

*A superior
gold hunting
machine*



MINELAB ELECTRONICS PTY LTD
118 Hayward Avenue, Torrensville, SA 5031, Australia
PO Box 537, Torrensville Plaza, SA 5031, Australia
Telephone: +618 8238 0888
Facsimile: +618 8238 0690

MINELAB INTERNATIONAL LTD
Obos House, Clontarf Street
Cork, Ireland
Telephone: + 353 21 251 067
Facsimile: + 353 21 251 069

MINELAB USA
1878 E. Apache Blvd
Tempe, Az 85281, USA
Telephone: +1 602 517 1849
Facsimile: +1 602 829 7550

INSTRUCTION MANUAL



MINELAB GOLDEN HAWK INSTRUCTION MANUAL

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1. Introduction

Congratulations on purchasing Minelab's Golden Hawk gold detector.

The Golden Hawk can constantly and automatically adjust the Ground Balance to keep it at the correct setting. This will ensure that the detector is always operating to its optimum strength, reducing operator fatigue and allowing more ground to be covered in a day's detecting.

For sensitivity to a range of targets, the Golden Hawk has a choice of three operating frequencies:

- 6.4 kHz,
- 20 kHz, and
- 60 kHz.

Further refinements include target detection with pitch variation, better signal-to-noise ratio in the electronics, and an 8" (20 cm) 'Double D' coil as standard equipment.

This manual has been arranged with QuickStart instructions for experienced users near the centre of the book. More detailed notes about assembling the detector, how its controls work, and methods of detecting are also included.

As always at Minelab Electronics, we strive to provide you with the best metal detection equipment possible. With that in mind we present the **Golden Hawk — the best continuous wave detector available today.** If you have any questions or comments we would like to hear from you. Please contact your local Authorised Minelab Dealer or write to us direct.

We wish you every success in your treasure hunting.

WARNING

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2. Specifications

These specifications are subject to change without notice.

Length	Packed length	710 mm
	Operating length (min)	1200 mm
	(max)	1450 mm
Weight	Control Box	800g
	Complete unit (excluding battery)	2.2kg
Batteries	Rechargeable Lead Acid Battery Pack	12V, 1.2Ah/20hr ≈
Coil	8" 'Double D' with Skid Plate	
Headphones	Impedance	8 Ω
	Jack - Stereo / Mono	¼"
Frequency	Transmission, sine	6.4, 20 and 60 kHz
Ground Balance	Automatic, with no loss of sensitivity	
Search Modes	Motion Detector	Always
	Balance	Track 1, Fixed and Track 2
	Discrimination	All Metal
		Discriminate (Reject Iron)
Controls	Power (On / Off)	Switch 2 Pos.
	Volume	Control 1 turn
	Threshold	Control 1 turn
	Sensitivity	Control 1 turn
	Tone (on lower panel)	Control 1 turn
	Discriminate	Switch 2 Pos.
	Signal	Switch 3 Pos.
	Soil	Switch 2 Pos.
	Recovery	Switch 3 Pos.
	Balance	Switch 3 Pos.
Charger	110/240V Mains charger for rechargeable battery	
Warranty	Control Box	2 years
	Coil	1 year
Patents	Patents apply	

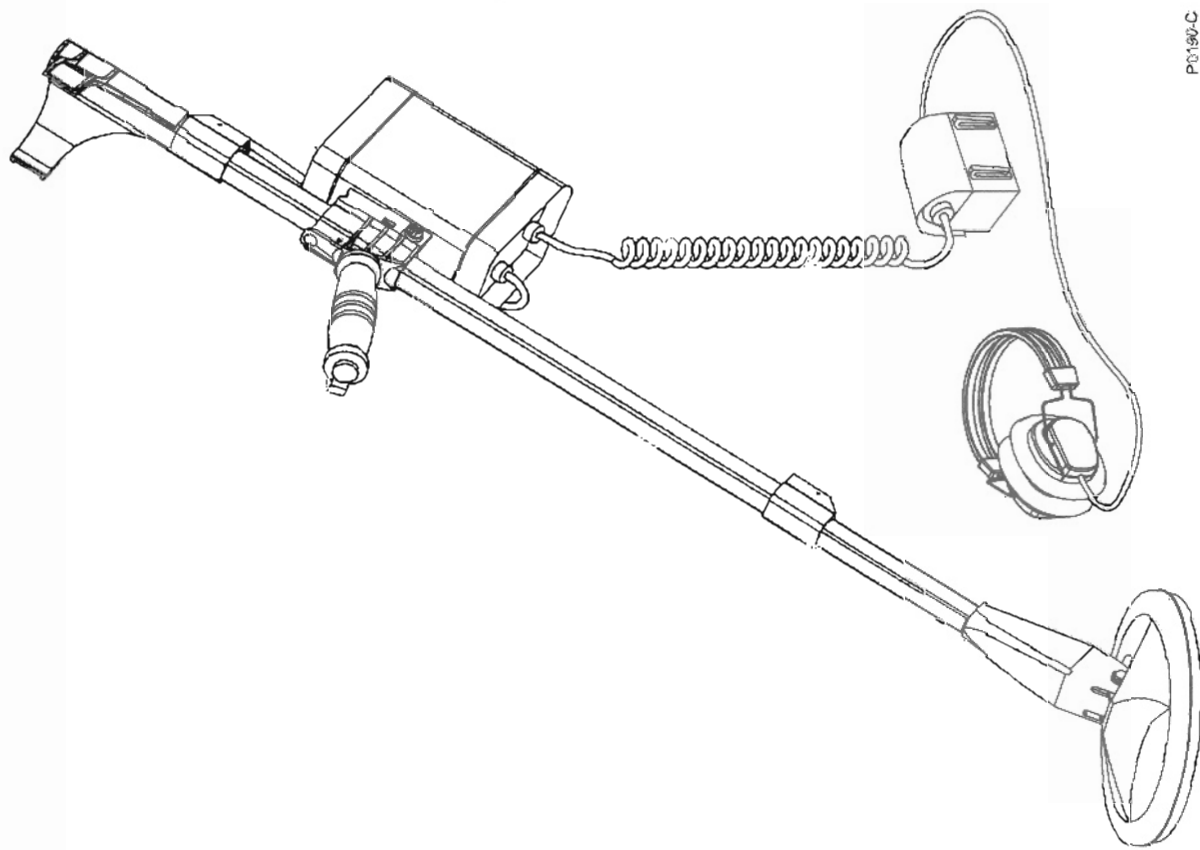
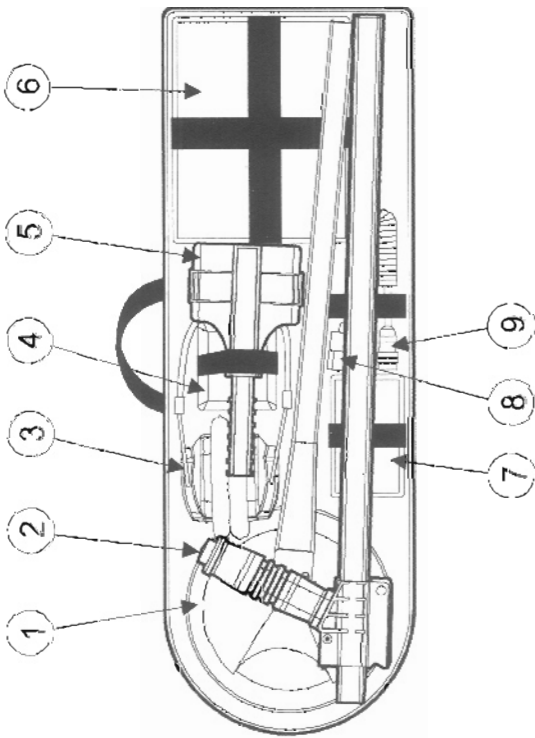


Figure 1 -- The Golden Hawk Detector



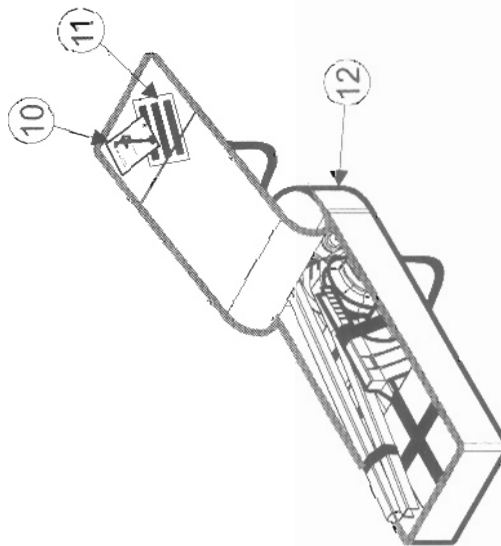
3. Parts List

The box in which your Golden Hawk detector is shipped should contain the following items. When you first receive your detector, please check that all of these items are in the box:

Item No.	Description
1.	8" Coil with Lower Shaft attached
2.	Upper Shaft with Handle attached
3.	Headphones
4.	Battery Charger
5.	Armrest
6.	Control Box (in Control Bag)
7.	Rechargeable Lead-Acid Battery (in Belt Pouch)
8.	Mains Lead for Battery Charger
9.	Battery Cable
10.	Instruction Manual
11.	Field Guide
12.	Backpack

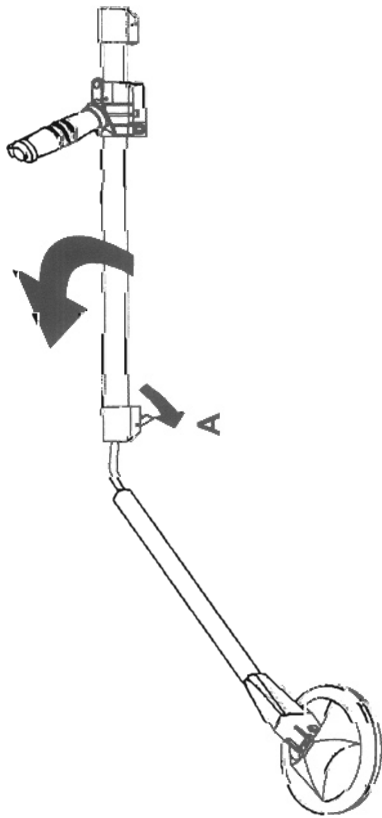
NOTE:

A spare strap is attached to the base of the Backpack to secure a battery cable, spare battery or other accessory.



P0191-B

Figure 2 – Golden Hawk Backpack (incl. packing layout)



4. Unpacking and Assembly

- a. Open the Backpack and check all components (as listed in Section 3) are present and undamaged.
- b. Remove the components and assemble the Detector in the following sequence.

4.1 Shaft Assembly (see Figure 3)

- a. Remove the Upper Shaft (including the Handle) and Lower Shaft (including the Coil) from their restraints in the Backpack.
- b. The two shaft assemblies are connected by the coil cable that runs through the inside of these hollow components.
- c. Release the locking lever (A) on the bottom end of the Upper Shaft, position the small end of the Lower Shaft inside the Upper Shaft and clamp these components together using the locking lever (A).
- d. Before attaching the Armrest, decide how the Control Box is to be positioned (see the diagrams in section 4.3 for more details on the correct positioning of the coil cable). Release the locking lever (B) at the top end of the Upper Shaft (the locking lever is part of an assembly known as a 'camlock'). Position the selected grommet (G) on the coil cable through the keyway in the upper locking lever, place the end of the armrest inside the Upper Shaft and clamp these two components together with the locking lever.

NOTE:

It is not necessary to remove the cable from the shafts during normal use and storage. However, if the cable is removed from the shafts, twisting the coiled section of the cable to 'tighten' the coil will make reinsertion easier. This technique simplifies shaft reassembly.

To repack the Detector in its Backpack, replace the components in the following sequence:

- Coil, attached to the Lower Shaft
- Upper Shaft, with Handle attached
- Armrest (slides over the two shafts), and Control Box.

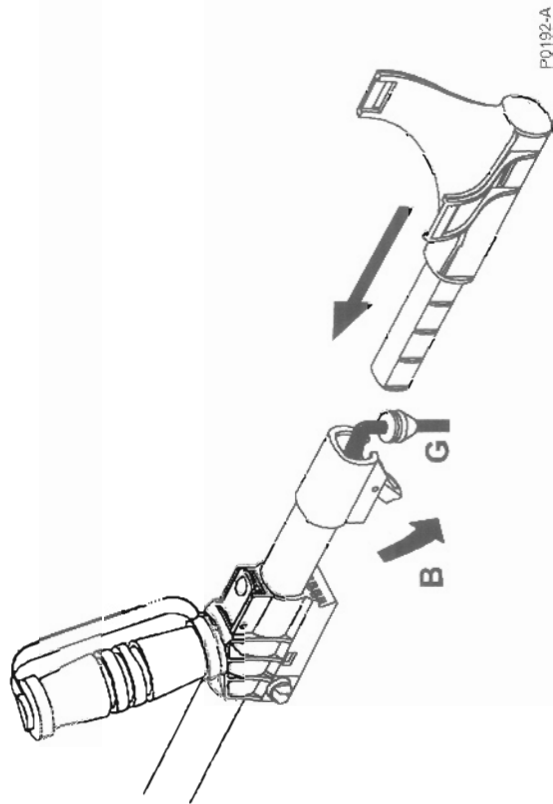


Figure 3 - The Golden Hawk Shaft Assembly

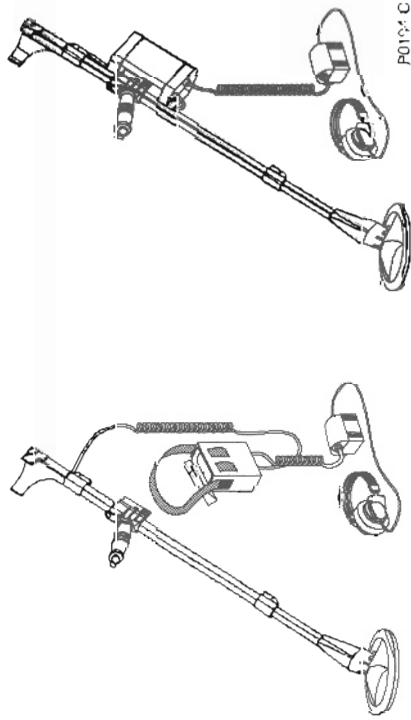


Figure 4 - Control Box Configurations

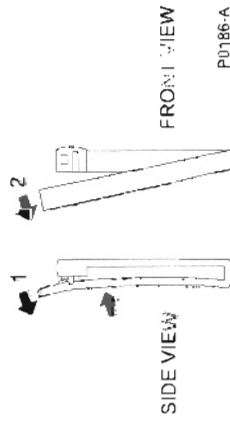


Figure 5 - Golden Hawk belt clips

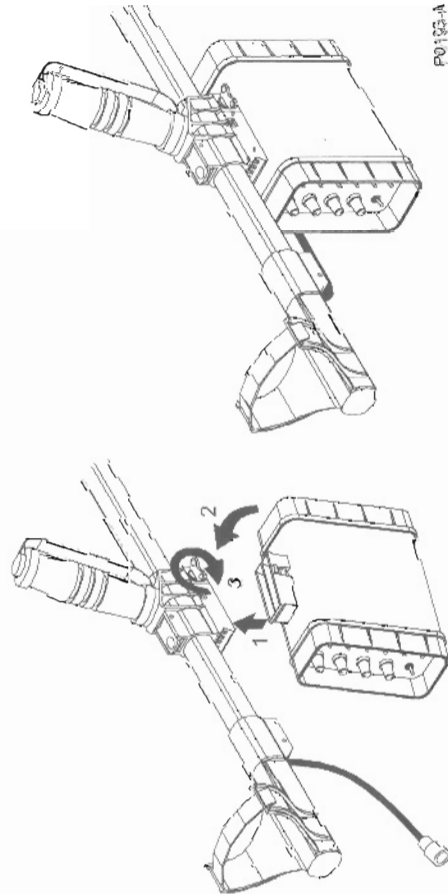


Figure 6 - Mounting the Control Box on the Shaft

4.2 Control Box

Position the Control Box in one of the following locations (see Figure 4):

- It can be placed in its Control Bag which is attached to the operator's waist via two belt clips (see Figure 5).
- When the webbing strap is used, the Control Bag can hang around the operator's neck, or be worn over the shoulder, or
- It can be attached to the Upper Shaft via a locking bracket located beneath the handle.

- a. If the Control Bag is to be used to carry the Control Box (either worn on the belt or as a shoulder pack), position the grommet (G1) (located between the two curled sections of the coil cable) into the keyway beneath the locking lever at the top end of the Upper Shaft. The plug end of the coil cable is then connected to the socket marked 'Coil' on the Control Panel (see the diagrams in section 4.3 for more details on the positioning of the coil cable).

Place the Control Box into the bag with the Control Panel facing upward and toward you. The 'Coil' and 'Power' sockets should face the bottom of the bag. Once the box is in the bag you can attach the Coil and Power cables to the sockets through cutouts in the underside of the bag. The plug end of the coil cable is connected to the 'Coil' socket, and the Military plug on the end of the battery cable is connected to the 'Power' socket.

- b. If the Control Box is to be mounted on the Upper Shaft, the mounting block on the Control Box is pushed into the locking bracket immediately beneath the Handle (see Step (1) then (2) on Figure 6). Rectangular lugs on the mounting block snap into rectangular holes on the sides of the locking bracket to hold the Control Box loosely in position. To lock the bracket, turn the locking pin at the front end of the bracket clockwise until it stops (Step (3)). The plug end of the coil cable is then connected to the 'Coil' socket on the Control Panel and the Military plug on the end of the battery cable is connected to the 'Power' socket.
- c. To remove the Control Box when it is attached to the underside of the shaft it is necessary to release the locking pin and disengage the mounting block on the Control Box from the locking bracket beneath the shaft.

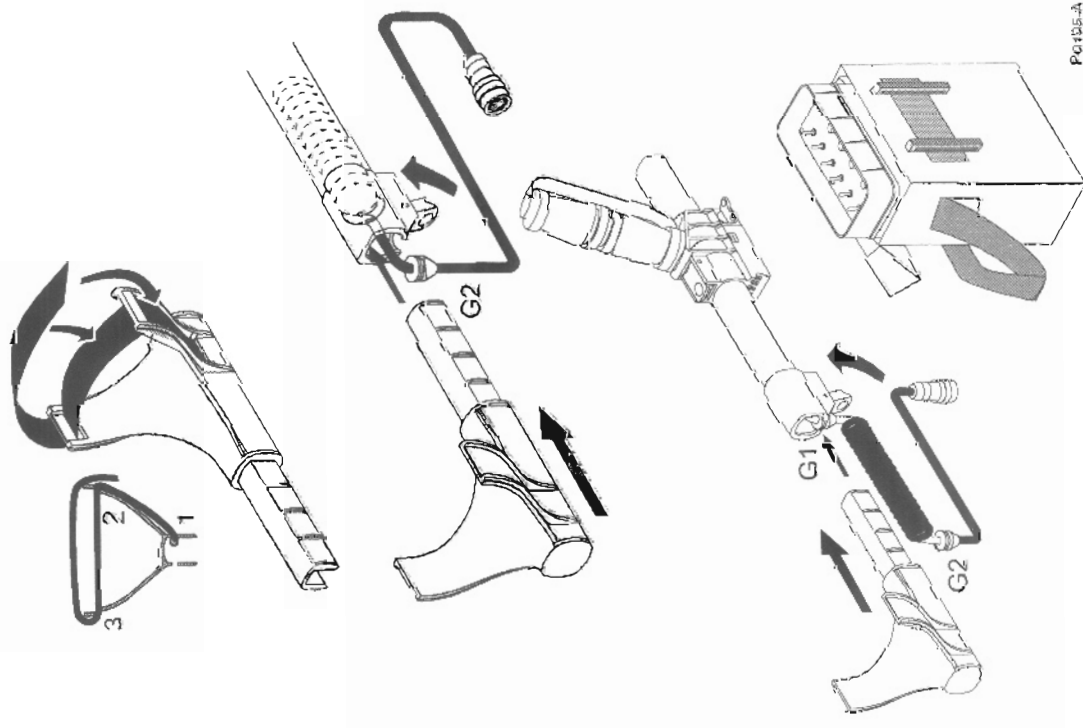


Figure 7 - Armrest and Cable Length Configurations

4.3 Armrest (see Figure 7)

- a. Insert the pointed end of the retaining strap through one of the slots at the base of the Armrest, then through the slots at the top of the wings of the Armrest. When the operator's arm is in the Armrest, the protruding part of the "Velcro™" strap should be fixed to make a firm fit.
- b. Decide whether the Control Box is to be attached to the shaft assembly or housed in the Control Bag, as this will determine what length of coil should protrude from the Upper Shaft above the Handle.
- c. If the Control Box is to be attached to the shaft, position the cable grommet (G2) (closest to the plug end of the coil cable) into the keyway beneath the locking lever at the top end of the Upper Shaft (surplus coil cable is stored inside the hollow Upper Shaft).
- d. Alternatively, if the Control Box is to be carried in its Control Bag, position the grommet (G1) (located between the two curled sections of the coil cable) into the keyway beneath the locking lever at the top end of the Upper Shaft.
- e. When the appropriate grommet is positioned in the keyway, push the end of the armrest assembly into the camlock on the top end of the Upper Shaft and clamp using the locking lever.

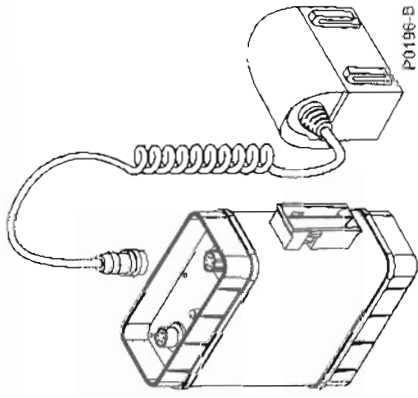


Figure 8 - Golden Hawk Battery Pack

4.4 Battery Pack (see Figure 8)

The detector can only be powered by the supplied battery pack. Before connecting or disconnecting the battery pack ensure that the unit is switched Off at the Control Panel.

- a. To provide power to your detector from the battery pack it is necessary to connect the 5-pin plug at one end of the battery cable to the 5-pin socket in the battery cap.
- b. The other end of the cable is connected to the 'Power' socket located on the base of the Control Box.
- c. Place the battery into the belt mounted battery pouch and secure the flap. Attach the battery pouch to your belt using the plastic belt clips.
- d. The belt clips used on the battery pack are identical to those used on the Control Bag (see Figure 5 for details of clip operation).
- e. You can remove the battery from the pouch any time for recharging or to check connections without removing the pouch from your belt.
- f. The detector can now be switched On and operations commenced.

NOTE:

The battery pack also provides the Audio output for the Detector from a headphone socket at the opposite end of the battery cap (see page 23). The 'Low Battery' alarm is an audible beep that is emitted through the headphones every 12 seconds.

4.5 Mains Battery Charger (see Figure 9)

The Minelab 12V Lead Acid Battery pack can be recharged using the mains-powered charger:

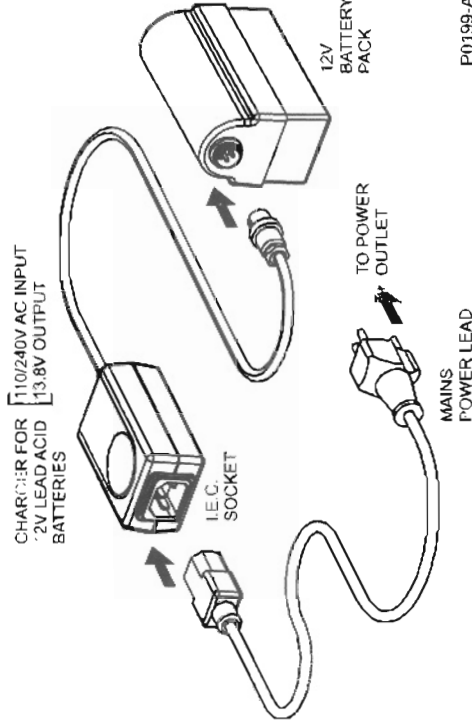


Figure 9 - Relic Hawk Mains Battery Charger Connections

To recharge the battery:

- a. Disconnect the curly cable from the side of the battery cap by unscrewing the locking ring on the 5-pin plug. Then gently pull the plug out of the socket.
- b. Connect the Charger's 5-pin plug to the 5-pin socket in the battery cap and tighten the locking ring to ensure good electrical contact.
- c. Connect the supplied mains power lead into the battery charger's I.E.C. socket.
- d. Connect the power lead to a mains power outlet and switch on. Leave the charger switched on with the battery attached for a minimum of 6 hours to fully recharge the battery.

NOTE:

Minelab advise detector owners to observe the following procedure to ensure their warranty and to extend battery life. Whenever the detector is not in use the battery should be connected to the charger with the power switched on. This procedure will not harm the battery or charger as an automatic cut-off is activated when the battery is fully charged.

