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KELLYCO®
METAL DETECTOR SUPERSTORE

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Owners's Manual

High Performance
Deep Searching
Metal Detector

The **MP5 Pro** is a high powered metal detector that is easy to use. With a fully automatic circuitry that handles the ground balancing and tuning for you.

Exclusive Features of the MP5 Pro:

- State-of-the-art high reliable circuitry.
- Full automatic tuning.
- Full automatic ground balancing.
- Full range VLF discrimination.
- Target response light for pin-pointing
- Volume control.
- Detection depth control.
- Low battery LED warning.
- 12.5 kHz. VLF operation.
- APC Pin Pointing.

GLOSSARY OF TERMS

Air Test - A sensitivity test performed by outwardly moving various sized metal samples under the metal detector search-coil to measure the distance limit of detection. This test is not always an accurate indicator of ground depth penetration capability. (*See Bench Test*)

Alkaline - A class of battery characterized by the ability to sustain longer periods of current drain and greater storage life when compared to the standard carbon-zinc type.

Bench Test - An air test to determine at what discriminate settings various metal samples are rejected or accepted. The test is conducted in a non-metallic area.

Cache - Any intentionally buried or secreted hoard of valuables.

Conductivity - The measure of a metal target's ability to allow eddy current generation on its surface.

Control Housing - A metal or plastic box which holds circuit boards, indicators, meter, controls and power supply.

Depth Penetration - The greatest measure of metal detector ability to transmit an electromagnetic field into the soil matrix and produce a target signal.

Discrimination - Adjustable circuitry which ignores or nulls audio responses from a specific conductivity range allowing positive responses to be heard from metals higher in conductivity above the discriminate control setting. Designed primarily to eliminate audio response from trash metals.

Double Blip - A signal characteristic common to elongated ferrous targets such as nails detected in the all-metal non-motion mode.

Faint Signal - A sound characteristic of targets that are sometimes deeply buried or very small in size.

False Signal - An erroneous signal created by automatic retuning overshoot, ground voids or highly mineralized hot rocks.

Ferrous - Descriptive of any iron or iron bearing material.

Metal - Metallic substances; iron, foil, nickel, aluminum, gold, brass, lead, copper, silver, etc.

Metal Detectorist - A person operating a metal detector in the field. This name is preferred by many over Treasure Hunter.

Mineralized Ground - any soil that contains conductive or non-conductive components.

Motion Discriminator - A detector type that requires searchcoil motion to activate its simultaneous ground balance and discriminate functions.

Non-Ferrous - Not of iron. Metals of the precious class (i.e. gold, silver, copper, etc.)

Pinpointing - Finding the exact target location with respect to a searchcoil's designated center. Accomplished by interpreting the centers of audio response width in perpendicular direction or scans.

Searchcoil - A circular (can be other shapes) plastic housing containing single or multiple transmit and receive windings in a specific orientation or configuration to emit and receive signals from ground and targets. (Also called loop or coil).

Searchcoil Cable - An electrostatically shielded cable of conductors (wires) which convey signals to/from the searchcoil or control housing.

Sensitivity - The measure or capacity of a metal detector to perceive changes in conductivity within the detection pattern. Generally, the more sensitivity a detector can smoothly provide, the more depth it will achieve.

Signal - An audio response or visual indication alerting the operator that a target has been detected.

Slow Motion - A description of searchcoil speed required to operate the motion discriminate mode.

Sweep - the motion one employs in moving the coil.

MIND YOUR MANNERS

Filling holes and obeying *NO TRESPASSING* Signs are but 2 requirements of a dedicated metal detector hobbyist. A sincere request that Kellyco makes to every user of a detector is that each place searched be left in a better condition that it was found. Thousands of individuals and organizations have adopted this formal.

Metal Detector Operators Code of Ethics:

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

• I will keep informed on and obey all laws, regulations and rules governing federal, state and local public lands.

• I will aid law enforcement officials whenever possible.

• I will cause no willful damage to property of any kind, including fences, signs and buildings and will always fill holes I dig.

• I will not destroy property, buildings or the remains of ghost towns or other deserted structures.

• I will not leave litter or uncovered items lying around. I will carry all trash and dug targets with me when I leave each search area.

• I will observe the golden rule, using good outdoor manners and conducting myself at all times in a manner which will add to the stature and public image of all people engages in the field of metal detection.

Warning!

Any metal detector may detect underground power lines, explosives or other items which when struck could cause personal injury. When searching for treasure with your detector, observe these precautions:

Do not hunt in an area where you believe there may be shallowly buried underground electric lines or pipes.

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

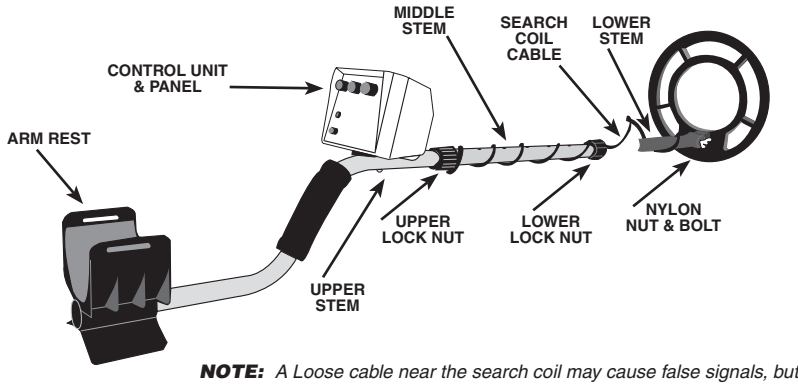
Avoid striking any line known to be or suspected to be carrying electrical power.

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

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

ASSEMBLY —

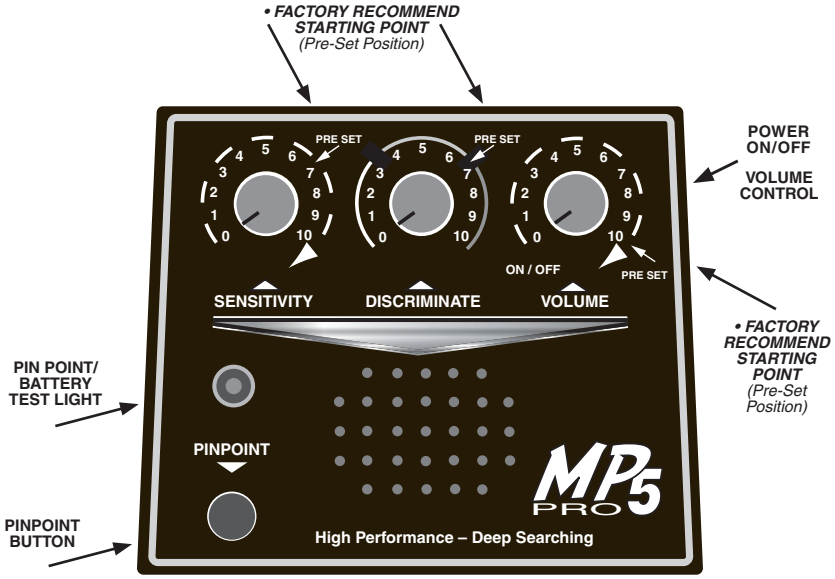
1. Unpack your metal detector carefully. Slip the lower stem into the middle stem. Adjust the stem length and coil angle. The stem length is adjusted by loosening the lower lock nut and allowing the spring clip to snap into one of the holes in the center stem. The coil angle is adjusted by loosening the nylon wing nut on top of the search coil. With the stem length properly adjusted, wrap the coil cable snugly around the lower stem and the center section. Leave just enough slack near the coil to allow it to be tilted completely backward and forward.



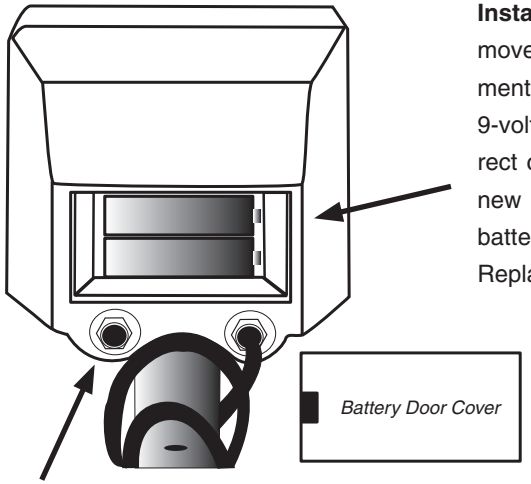
NOTE: *A Loose cable near the search coil may cause false signals, but don't wrap it so tightly that it pulls against the housing or the coil.*

2. Install (2) 9-Volt batteries and then the detector will be ready for use.

CONTROL PANEL —



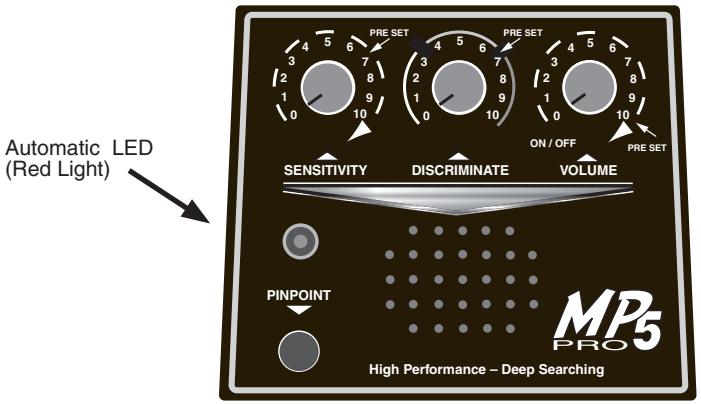
INSTALLING THE BATTERIES –



Installing the Batteries: Remove the battery compartment cover and install two (2) 9-volt batteries. Make the correct connections between the new batteries and ensure the battery snaps are plugged in. Replace the battery cover.

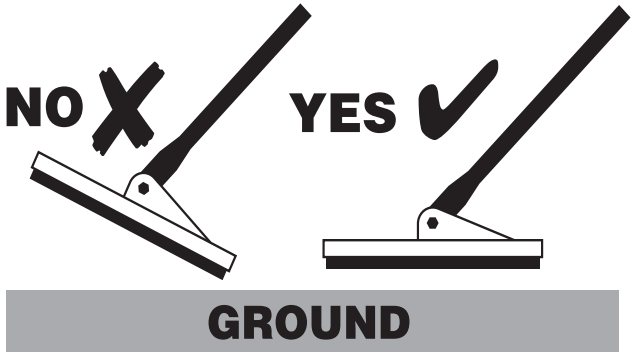
Automatic LED (Red Light): The MP5 Pro has built-in automatic LED battery test light that will start to glow red when the batteries reach a voltage point that is too low for maximum performance. At first turn-on the LED might flicker some, then go out. This is normal. Only when the MP5 Pro is on and the batteries start to lose their charge will the LED begin to glow Red. When this happens it is time to replace both batteries. (You may still be able to use the detector for a short while longer.) Only use fresh high quality alkaline type.

Note: *If using rechargeable types your run time will be somewhat less than standard alkaline types.*



IN THE FIELD TIP FOR USING YOUR MP5 PRO DETECTOR

1. Always keep the bottom of the coil level with the ground. Try to maintain coil 1 inch off the ground at all times. You do not need to scrub the ground with the coil.

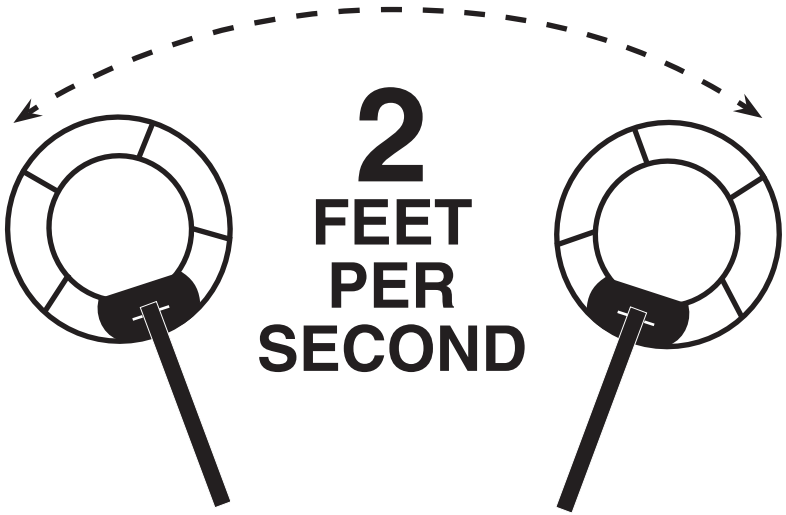


2. Correct arm position. Adjust the lower stem so that your arm is hanging in a comfortable position by your side with the coil about 1 inch off the ground.

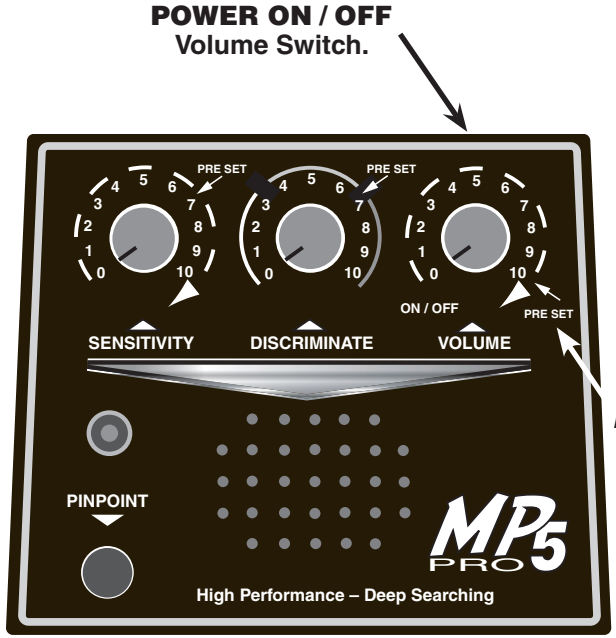
USING THE MP5 PRO METAL DETECTOR —

The **MP5 Pro** is a slow motion type detector, in other words the coil must be in slow motion to respond to any target. By simply moving the coil back and forth over the ground this motion will activate the automatic ground balance and tuning circuits of you detector and keep it at its optimum tuning levels. When scanning the ground try to keep the search coil about 1 inch off the ground. **DO NOT** scrub the ground, you may get some "False Signals" by doing that. Please refer to the following drawings for the correct way to sweep and hold your metal detector.

Simply move the coil back and forth over the ground.



OPERATION OF CONTROLS —



To operate and turn on the **MP5 Pro** simply turn the **On/Off Volume Control** fully clockwise. Turning this same control counter-clockwise will lower the volume.

TIP: *Adjust the Volume level that is comfortable for your personal hearing if using an optional headphone. When not using headphones keep volume at maximum so you will not miss the deeper targets.*

After you have turned on the **MP5 Pro** you should now adjust the **Sensitivity Control** and the **Discriminate Control** to their **Pre-set** positions. This is only a starting point and will help you get familiar with your new **MP5 Pro**.

OPERATION OF THE SENSITIVITY CONTROL –

• FACTORY RECOMMEND STARTING POINT
(Pre-Set Position)

By starting out at the Pre-set point the **MP5 Pro** is set at the **normal sensitivity depth range**. The normal range is good for most soil conditions, but by increasing this control clockwise to the maximum position you will get better depth on older coins. This control is extremely helpful in eliminating false signals caused by high minerals. If you are experiencing false signals you should decrease this control until these signals are minimized.

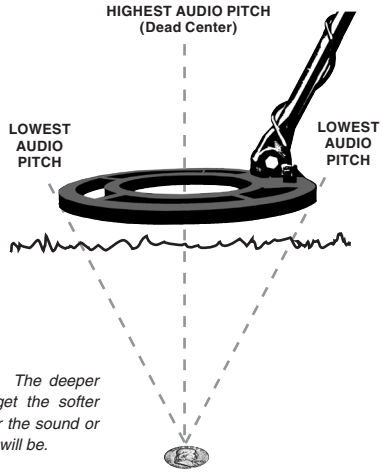
TIP: *Try running the **MP5 Pro** in the highest Sensitivity Depth Range that you can (with minimal false signals) so the detector will give you maximum coin depth.*

USING THE PINPOINT BUTTON –

The MP5 Pro incorporates a very precise APC or Audio Centering Pinpointing feature that will accurately locate any target when you're ready to dig. Once you have located a buried target and have identified that target in the slow motion mode you start by moving the coil away from the target area with the coil about 1/2 inch off the ground. Now you simply push in the round button switch in the lower left corner and hold while slowly moving the coil over the target area until you get the highest audio pitch and the loudest sound (volume level). At this point you are centered over the target. What you are hearing is the new APC technology working to make pinpointing as effortless as possible. Another feature is the (dual colored LED) above the pinpoint button will glow green only when in the button is pushed in.

PIN POINTING BUTTON

Keep the search coil about 1 inch off the ground.



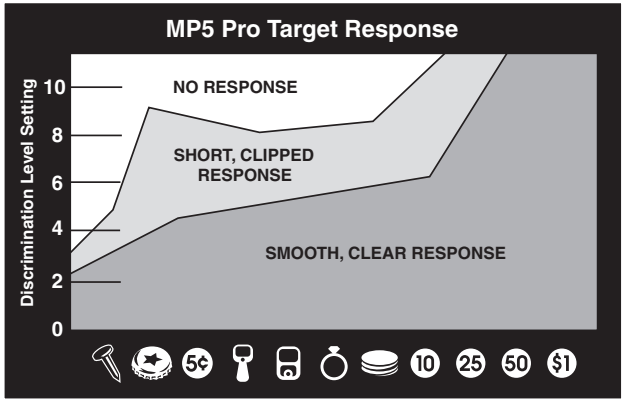
NOTE: *The deeper the target the softer or lower the sound or volume will be.*

OPERATION OF THE DISCRIMINATE CONTROL –

The Discriminate Control is used to reject or discriminate unwanted trash targets. When the control is set to '0' your **MP5 Pro** will be in the All-Metal Mode and will respond to all targets. When you increase the control to a higher number the detector will begin to reject small iron targets first then most small foil pieces and then pull tabs. Study the below chart to get a better understanding of the different levels that trash targets are eliminated.

*• **FACTORY RECOMMEND STARTING POINT** (Pre-Set Position)*

TIP: *Always keep the Discriminate Control at its lowest possible settings so you will not reject nickels and small gold rings . . .*



**Results may vary due to target oxidation and ground mineral conditions.*

Note: *Most **Eliminated Trash Targets** will give a broken or chattered sound when discriminated, this is normal and is a design feature of this detector. It was designed this way so you can easily identify trash targets. Some trash targets will give NO sounds at all. Practice using the **Discriminate Control** by putting some different coins and trash items on the ground in a straight line about 10 inches apart. Pass each item once and then come back and increase the discriminate control knob (clockwise) and listen to the changes in the audio response on the trash targets as you keep increasing the control by one. Remember even good targets can be eliminated at the maximum discrimination settings.*