OWNER’S MANUAL

Uses two AA ALKALINE batteries only.
Do not use “Heavy Duty” batteries.
Do not use ordinary Zinc Carbon batteries.

Not for Underwater Use
DO NOT SUBMERGE
Congratulations!

Congratulations on the purchase of your new Fisher F44™ Metal Detector. The F44 is the result of many years of software engineering and features the latest advancements in lightweight design and target accuracy. The F44 can be used with its default modes, or use the Custom mode to create your own setup. No longer will weather be a force that stops you from enjoying your sport, the F44 is completely weatherproof. Laugh at the rain. Treasure hunting enthusiasts from around the world were involved in the development of this revolutionary new detector. This manual has been written to help you get optimal use of your detector so we hope you will read it thoroughly before your first outing.

Happy Hunting from Fisher Research Labs!

The F44 operates at a frequency of 7.69 kHz and comes with a 11” triangulated concentric elliptical searchcoil. The F44 shares searchcoil compatibility with the F11 and F22.

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The following terms are used throughout the manual and are standard terminology among detectorists.

**RElic**
A relic is an object of interest by reason of its age or its association with the past. Many relics are made of iron, but can also be made of bronze or precious metals.

**Iron**
Iron is a common, low-grade metal that is an undesirable target in certain metal detecting applications. Examples of undesirable iron objects are old cans, pipes, bolts, and nails. Sometimes the desired target is made of iron. Property markers, for instance, contain iron. Valuable relics can also be composed of iron cannonballs, old armaments, and parts of old structures and vehicles, can also be composed of iron.

**Ferrous**
Metals which are made of, or contain iron.

**Elimination**
Reference to a metal being eliminated means the detector will not emit at one, nor display a Target-ID, when a metal object passes through the search coil's detection field.

**Discrimination**
When the detector emits different tones for different types of metals, and when the detector eliminates certain metals, we refer to this as the detector discriminating among different types of metals. Discrimination is an important feature of professional metal detectors. Discrimination allows the user to ignore trash and otherwise undesirable objects.

**Pinpointing**
Pinpointing is the process of finding the exact location of a buried object. Long-buried metals can appear exactly like the surrounding soil and can therefore be very hard to isolate from the soil.

**V.C.O.**
Meaning U voltage controlled oscillator, V the V.C.O. audio method causes both the audio pitch and the volume to rise as signal strength increases. V.C.O. improves the user's ability to interpret a target's size and depth. Very weak signals (for small or very deeply buried objects) have the faintest volume and the lowest pitch. Larger objects, and those closer to the search coil, will induce a higher volume and higher pitch sound.

**Ground Cancelation**
Ground Cancelation is the ability of the detector to ignore, or see through, the earth's naturally occurring minerals, and only sound a tone when a metal object is detected. This detector incorporates proprietary circuitry to eliminate false signals from many mineralized soils.
CONTENTS OF BOX

The following detector components are in the box:

1. Control Housing with 2 screws

2. Armrest Assembly with Screw and Lock-Nut

3. Triangulated Concentric Elliptical Searchcoil

4. Middle Stem

5. Lower Stem with Bolt & nut & attachment and washers

6. S-Rod

Headphone Jack Cover

Handgrip

O-Ring
One installed on coil connector and replacement O-Ring included in manual bag.
ASSEMBLY

Tool Required: #1 Phillips Screwdriver

1. Q Remove the Screw from the Armrest. 
   Q Slide the Armrest over the end of the S-Rod. 
   Q Attach with Screw and Lock-Nut.

2. Attach Control Housing with Screws install back screw first.
   NOTE:
   • The Handgrip fits under the Control Housing.
   • Handgrip may partially cover one mounting hole. Peel back Handgrip to expose the front hole.
   • Ensure the headphone jack cover is properly seated before attaching the control housing.

Caution:
Forcing in MIDDLE STEM with CAM LOC& raised may form a burr on cam lock. If this happens, remove burr with knife to allow insertion.

Note: Very tall users can purchase the optional Extended Lower Stem (TUBE53), for extended reach.
3 Position S-Rod upright.

4 Rotate the Locking Collar fully in the counterclockwise direction.

5 Insert your finger inside the tube and make sure the Internal Cam Lock is flush with the inside of the tube.

6 Insert the Middle Stem into the S-Rod, with the Silver Button pointed upward.

7 Rotate the Middle Stem until the Silver Button locates in the hole.

8 Twist the Locking Collar fully in the clockwise direction until it locks.

9 Repeat this process on the Lower Stem.

10 Using the Bolt and Nursed Nob, attach the Search Coil to the Lower Stem.

11 Adjust the Lower Stem to a length that lets you maintain a comfortable upright posture with your arm relaxed at your side, and the Search Coil parallel to the ground in front of you.

12 Wind the Cable securely around the stems, leaving slack at the bottom.

13 Connect Cable Plug to housing. Do not twist the Cable or Plug. Turn Locking Ring only. Use minimal finger pressure to start the threads. Do not cross-thread. When the Locking Ring is fully engaged over the threaded connector, give it a firm turn to make sure it is very tight. When the Locking Ring is fully engaged over the threaded connector, it may not cover all of the threads.
BATTERIES

The detector requires two AA batteries. We recommend AL&ALINE batteries (not included).

Do not use ordinary “Zinc Carbon” batteries.
Do not use “Heavy Duty” batteries.

Rechargeable batteries can also be used. If you use rechargeables, we recommend using a UNickel Metal Hydride rechargeable battery. The battery compartment is located on the right side of the Control Housing. Both batteries should be installed with the negative terminal down.

Remove battery tube:
1. Slide the battery door off.
2. Extend the handle on the battery tube (with your finger or by using the tab on the battery door to pry the handle into the extended position)
3. Pull on the handle to remove (do not use the battery door tab to pull the tube out of the control housing, as this may cause damage to the battery door)

To install battery tube:
1. Position the handle on the battery tube in the lowered position.
2. Firmly push down on the battery tube, until the battery tube handle is flush with the housing. (The battery tube will only insert one way, with the brass contacts facing toward the display and the hinged side of the handle towards the back.)

BATTERY LIFE
Expect 25 to 30 hours of life from 2 AA Alkaline batteries. Rechargeable batteries provide about 15 hours of usage per charge. Backlight increases power consumption and decreases battery life, with significant power drain at maximum brightness.

BATTERY INDICATOR
The battery icon has three segments plus an outline segment. The amount of battery voltage for two AL&ALINE batteries is indicated as follows:

- All segments black 2.8 volts
- Right segment grey, other two black 2.6 volts
- Right segment off, other two black 2.4 volts
- Right segment off, mid grey, left black 2.2 volts
- Right and mid segments off, left black 2.0 volts
- Right and mid segments off, left grey 1.8 volts
- All segments off, outline flashing 1.8 volts

It is recommended to change the batteries when you see the one black segment.

SPEAKER VOLUME AND BATTERY CHARGE
You may notice the speaker volume drop while one battery segment is illuminated. With the outline flashing, low speaker volume will be very apparent.

BATTERY DISPOSAL & RECYCLING
Alkaline batteries may be disposed of in a normal waste receptacle or recycled. Other battery chemistries should be recycled.
QUICK-START DEMONSTRATION

I. Supplies Needed
- Q Nail (made of iron)
- Q U.S. Quarter (or silver coin)
- Q U.S. Nickel
- Gold Ring
- Q U.S. Dime
- Q U.S. Penny, dated after 1982 (post-1982 pennies are made of 5 inc)

(Most new non-U.S. coinage also contains mostly 5 inc)

II. Position the Detector
   a. Place the detector on a table with the search coil hanging over the edge (or have a friend hold the detector with the search coil off the ground).
   b. Keep the search coil away from walls, floors and metal objects.
   c. Remove watches, rings and jewelry.
   d. Turn off lights or appliances whose electromagnetic emissions may cause interference.
   e. Pivot the search coil back.
   f. Press to power on. A series of 10 numbers will sequence across the screen, this is the serial number.
   g. Press twice. All target categories are now illuminated.

III. Demonstrate DISCRIMINATION Feature:
   a. Pass all objects over the search coil and notice the different tones. Notice the target icon indicators and the target two digit target ID number displayed for each item.
   - Nail: low tone
   - Nickel: medium tone
   - Zinc Penny: medium tone
   - Gold Ring: most gold rings will register with a medium tone
   - Dime: high tone
   - Quarter: high tone

   b. Press button twice, to Jewelry Mode. Notice the graphic is now removed.
   c. Wave a nail over the search coil. It will not be detected because it has been discriminated out.

IV. Demonstrate NOTCH Feature:
   a. Press until UNOTCH is illuminated.
   b. Press until icon U3V is flashing, then wait until icon stops flashing (approximately 5 seconds). The icon will be blanked out.
   c. Pass a nickel over the search coil. It will not be detected. Then the nickel has been Unotched Out.
   d. Press 4 times, target icon 3 is now flashing, then wait until icon stops flashing (approximately 5 seconds). The icon will now be notched back in. Only one target category can be notched at a time. Repeat the process to notch additional categories.

V. Demonstrate DEPTH Indicator:
   a. Pass the Nickel closest to the search coil (about 1 V away).
   b. Notice the depth bargraph indicating a shallow target.
   c. Wave the nickel farther away from the search coil and notice additional bargraph segments illuminating, indicating a deep target.

VI. Demonstrate PINPOINT Feature:
   b. Hold a coin motionless over the search coil.
   c. Lower coin towards search coil and then raise coin away from search coil.
   d. Notice the sound changes as the coin distance varies.
   e. Notice the depth indicator changes as the coin moves up and down.
THE BASICS OF METAL DETECTING

This metal detector is intended for locating buried metal objects. When searching for metals, underground or on the surface, you have the following challenges and objectives:

1. Ignoring signals caused by ground minerals.
2. Ignoring signals caused by metal objects you do not want to find, like nails.
3. Identifying a buried metal object before you dig it up.
4. Estimating the size and depth of objects, to facilitate digging them up.
5. Eliminating the effects of electromagnetic interference from other electronic devices.

Our metal detector is designed with these things in mind.

1. Ground Minerals
   All soils contain minerals. Signals from ground minerals can interfere with the signals from metal objects you want to find. All soils differ, and can differ greatly, in the type and amount of ground minerals present. This detector has proprietary circuitry to automatically eliminate interfering signals from minerals that occur naturally in the ground.

   NOTE: This detector will not completely eliminate interference from all types of minerals. For example, the detector is NOT designed for use on wet sand and saltwater beaches. Another example of soil this detector will not eliminate is any soil containing large concentrations of iron oxides, which are usually red in color.

2. Trash
   If searching for coins, you want to ignore items like aluminum foil and nails. You can see the Target-ID of the buried objects, listen to the sounds and then decide what you want to dig up. Or, you can eliminate unwanted metals from detection by using the different Modes or NOTCH feature or use the Custom mode to create your own discrimination settings.

3. Identifying Buried Objects
   Metal objects are identified along the 9-segment Conductivity graphics symbols and with a large 2-digit Target ID number in the center of the screen. Both are indicators of the relative electrical conductivity of different objects. Segments to the right indicate more conductive targets. Iron objects will be illuminated with the Fe symbol. The Fe (iron) category will display target ID numbers from 1 to 19.

   Gold, nickel, and brass objects will be illuminated in the UGold V group: 2345 6789.

   Silver and copper objects will be illuminated in the USilver V group: 2345 6789.

4. Size and Depth of Buried Objects
   The 6-segment graphic indicates the relative depth of a buried metal object. This graphic can indicate the relative size of different objects or their distance from the search coil. For a given object, the more distance between it and the search coil, the more segment lines illuminated.
5. EMI (Electromagnetic Interference)
The search coil produces a magnetic field and then detects changes in that magnetic field caused by the presence of metal objects. This magnetic field the detector creates is also susceptible to the electromagnetic energy produced by other electronic devices. Electric fences, cell phones, cellphone towers, power lines, microwave ovens, lighting fixtures, TVs, computers, motors, etc., all produce EMI which can interfere with the detector and cause it to beep erratically.

The SENSITIVITY control lets you reduce the strength of this magnetic field and therefore lessen its susceptibility to EMI. You may want to operate at maximum strength, but the presence of EMI may make this impossible. If you experience erratic behavior or false V signals, reduce the sensitivity.

USING THE DETECTOR

Sweep Method
Sweep the detector side-to-side over the ground.

Keep the search coil parallel to the ground as you sweep do not lift the search coil at the end of your sweeps.

Search coil motion is required for target detection.

11” WATERPROOF SEARCHCOIL

This detector is equipped with an 11 V triangulated elliptical concentric waterproof search coil. This lightweight, ruggedly constructed search coil can be fully submerged into water. The bottom portion of the pole assembly can also be submerged, but the control housing and the search coil cable plug connection into the housing must not be submerged. The weatherproofing on the F44 was designed to allow hunting in inclement weather but it was not designed to withstand submersion in water.

Accessory search coils are also available for purchase see back cover or visit www.fisherlab.com. A smaller search coil offers more precision and fits into tight spaces. Larger search coils provide more ground coverage on each sweep and penetrate deeper into the ground. Biaxial search coils provide better penetration in mineralized soils.
OPERATION and CONTROLS

HOW TO WORK THE CONTROLS

Press and hold . PP to enter Pinpoint.

Press MENU to cycle through menu items:
- VOLUME
- SENS
- NOTCH
- GROUND
- BACKLIGHT

Press and-Hold GROUND GRAB® to perform automatic ground cancelation.

POWER ON/OFF
At Power-up the Menu default is VOLUME

Press MODE repeatedly to cycle through search modes:
- JEWELRY
- COIN
- ARTIFACT
- CUSTOM
- A/M

Press or + to INCREASE or DECREASE menu settings.
**Target Category Icons**

Icons will turn from outlined to solid indicating a detected target. A “blank” position indicates a Notched-out target category.

<table>
<thead>
<tr>
<th>Target Category Icons</th>
<th>Target Category ID Numbers</th>
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</thead>
<tbody>
<tr>
<td>Iron</td>
<td>Fe2O3</td>
</tr>
<tr>
<td>Ground Error Icon</td>
<td></td>
</tr>
<tr>
<td>Ground Mineralization Indicator</td>
<td></td>
</tr>
<tr>
<td>Target-ID</td>
<td></td>
</tr>
<tr>
<td>Battery Level Indicator</td>
<td></td>
</tr>
<tr>
<td>Mode Indicator</td>
<td></td>
</tr>
<tr>
<td>Backlight Icon</td>
<td></td>
</tr>
<tr>
<td>Menu Category Icons</td>
<td></td>
</tr>
<tr>
<td>Target Depth Indicator</td>
<td></td>
</tr>
</tbody>
</table>

**DEPTH INDICATOR**

Coin-sized objects will be detected up to 10V deep. The 6-segment graphic indicator is calibrated to coin-sized objects.

- Depth of Coin-Sized Object Less Than 2”
- Depth of Coin-Sized Object Deeper Than 4”
- Depth of Coin-Sized Object Deeper Than 6.5”

Objects other than coins will still register on the 6-segment depth scale, but the depth indication will be relative. For example, all 6 segments illuminated could indicate a coin buried 10V deep, but could also be a very large object several feet deep. Use the Depth Indicator in conjunction with the Target Category Icons and the aid of Pinpoint to gain more information about the buried target.

**OVERLOAD WARNING**

If a metal object or highly magnetic soil are too close to the searchcoil, the detector will **overload** and a U -- V will appear on the screen. The detector will make a rapid, repeating mid-tone warning sound. **Overload** will not harm the detector, but the detector will not function under these conditions. If **overload** occurs, raise the searchcoil to detect the target from a greater distance, or move to a different location.
The Menu is located on the left side of the screen. During normal operation, the Menu is inactive and the text icons are faded. Press the button to cycle through the menu options. When active, the icon will be bold. Each press of the moves to the next Menu item. Use with each menu item to make adjustments up or down. Here is a description of the Menu options.

**VOLUME**

Adjust the speaker volume from 0 to 20. The default setting is 7. With a setting of U0V, the detector will function as normal but it will not emit any sound when targets are detected.

The F44 has FeTone™, adjustable Iron audio, a feature to reduce the volume of iron targets to minimize user fatigue.

Volumes settings of 10 to 20 are available to control the volume level of iron targets. As you increase volume from 10 to 20, iron-volume changes from silent to maximum. At each of the 10 to 20 volume settings, non-ferrous target response remains at maximum volume. At volume settings 0 to 9 both ferrous and non-ferrous target volumes are half-volume.

Example at volume setting 15, non-ferrous target volume is maximum, ferrous target volume is at U5V, or half-volume.

<table>
<thead>
<tr>
<th>Volume Setting</th>
<th>Nonferrous</th>
<th>Ferrous</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 1 1 1 10 1</td>
<td>1 1 1 1 1 1</td>
<td>1 1 1 1</td>
</tr>
<tr>
<td>22 2 1 2 1 2</td>
<td>2 2 2 2 2 2</td>
<td>2 2 2 2</td>
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<tr>
<td>33 3 3 3 1 3</td>
<td>3 3 3 3 3 3</td>
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<tr>
<td>44 4 4 4 1 4</td>
<td>4 4 4 4 4 4</td>
<td>4 4 4 4</td>
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<tr>
<td>55 5 5 5 1 5</td>
<td>5 5 5 5 5 5</td>
<td>5 5 5 5</td>
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<td>66 6 6 6 1 6</td>
<td>6 6 6 6 6 6</td>
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<td>77 7 7 7 1 7</td>
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<td>88 8 8 8 1 8</td>
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<td>99 9 9 9 1 9</td>
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<td>10 10 0 2 1 0</td>
<td>1 0 1 0 0 1</td>
<td>1 0 1 0</td>
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<tr>
<td>10 10 0 2 1 0</td>
<td>1 0 1 0 0 1</td>
<td>1 0 1 0</td>
</tr>
</tbody>
</table>

Volume settings will be saved when the detector is turned off.

**SENS**

Adjust the sensitivity from 1 to 20. The default setting is 12. The higher the number, the more sensitive the detector.

If the detector beeps erratically or beeps when there are no metal objects being detected, reduce the sensitivity.

The searchcoil produces a magnetic field and then detects changes in that magnetic field caused by the presence of metal objects. This magnetic field the detector creates is also susceptible to electromagnetic energy (EMI) produced by other electronic devices. Electric fences, cell phones, cellphone towers, etc., all produce EMI which can interfere with the detector and cause it to beep when no metals are present and sometimes to beep erratically.

Sensitivity settings will be saved when the detector is turned off.
**MENU (Continued)**

**NOTCH**
The Notch control allows you to accept or reject different types of metals per each target category group. All categories are eligible for NOTCH. Each mode, Jewelry, Coin, Artifact, and Custom, has its own set of notches.

With Notch menu active, press U or V to program the Notch feature. Each press of the U or V cycles to a new category and the active position is indicated by a flashing icon. Select desired category and wait 5 seconds or press the menu button for immediate notch setting. That category will reverse status. If the icon had previously been illuminated it will now disappear indicating the category has been eliminated from detection. Likewise, an icon that is not visible on the display will re-illuminate, indicating that category is now notched in and targets will be detected.

All of the 9 target categories can be notched, but only one category can be notched at a time. All Notch settings are saved when the detector is turned off.

**GROUND**
Adjust the Ground setting from 0 to 99. This provides a manual adjustment of the detector’s internal ground setting, which you will usually want to set at the same value as soil’s Ground Phase value. See the Ground Cancelation section of the manual for an explanation of Ground Phase.

When adjusting the Ground setting manually, only a two-digit ground phase number will be present. Note that when adjusting the Ground setting, the displayed setting changes by 1 number only after 10 keypad presses. The detector actually has 1,000 different ground settings to choose from, but uses only 2 digits to display the number. Reasons for this manual ground cancelation feature are explained in the Ground Cancelation section of the manual.

The Ground menu option is only available in the All Metal (A/M) Mode. In all other modes, the Ground menu option will not appear on the screen, but the manual Ground setting carries over into the Jewelry, Coin, Artifact, and Custom modes and Pinpoint.

The Ground setting is not saved when the detector is powered off.

**BACKLIGHT**
Available adjustment is from 0 to 5. This option controls the brightness of the display backlight. When the backlight is on, it is illuminated. In daylight, the backlight can be turned on but will not be visible, draining the batteries. So be sure the backlight is not illuminated when a backlighting is not required.
OPERATING MODES

There are four discrimination modes JEWELR4, COIN, ARTIFACT and CUSTOM, and ALLMETAL (A/M) mode. JEWELR4 and COIN modes have preset notch settings. You can change all 9 target category notch settings in all four discrimination modes and these changes will be saved on shutdown. Pressing the MODE button will cycle through the modes. The active Mode will have bold text. Use NOTCH to change discrimination settings in each mode. The NOTCH function does not work in All Metal mode.

JEWELRY Mode preset NOTCH: Fe (Iron) category notched out.

COIN Mode preset NOTCH: Fe (Iron) and Target Category groups 2 (Foil) and 4 (Aluminum) notched out.

ARTIFACT Mode: All Target Categories enabled.

CUSTOM Mode: User definable.

FACTORY RESET

To reset your F44 to the default factory settings

1. Turn the detector off.
2. Hold the MENU button down while pressing the Power button.

NOTE: This reset will erase any custom tone settings you may have entered in the Custom Mode.

PINPOINT

Press and hold to activate. Search coil motion is not required. Motionless search coil over metal target will induce sound.

Audio is V.C.O. The 2-digit number displayed indicates target depth, in inches. The scale is calibrated to coin-size objects.
After you have identified a target using a motion mode of detection, press and hold the to identify the target’s exact location. This technique can yield more information about the target’s shape and size and also find its exact location to facilitate extraction.

**Pinpoint as follows:**
1. Press and hold.
2. Position the search coil just barely off the ground and to the side of the target.
3. Move the search coil slowly across the target. The target is located directly under where the sound is loudest.

**Pinpoint Retuning:**
Retuning in the Pinpoint Mode is useful in narrowing down the location of a target. To retune the detector, release the button and immediately depress it again. When the user releases the, V indicated on the screen. The V indicates the detector is retuning to the incoming signal level.

1. To narrow the response further, position the center of the search coil near the center of the response pattern, but not directly over the center.
2. Release.
4. Repeat this narrowing procedure to narrow the field of detection further.

**Note:** Depth indication is less accurate after narrowing.

**COILDRIFT**
If you plan to use PINPOINT for continuous searching, realize that drift will occur over time, causing the detector to gain or lose sensitivity. Periodic retuning of the detector is required to minimize drift.

**PINPOINTING USING MOTION MODES (without using)**
1. Sweep over the target in narrowing side-to-side patterns.
2. Visualize the centerline on the ground where the U beep occurs.
3. Rotate 90° and now sweep along this imaginary line.
4. Visualize the second centerline on the ground where the U beep occurs.
5. The U3 V centerpins the target location.
TARGET IDENTIFICATION

Target-ID
This is a motion detector. The coil must be moving for the detector to sense metal except when in Pinpoint. If you stop the coil over a metal object it will null-out and go silent. When metal objects are detected, the detector will emit a sound, a Target ID Category icon will illuminate and a 2-digit Target-ID number will appear on the screen. Possible Target-ID numbers range from 1 to 99. This number represents the electrical conductivity of the target; higher numbers indicate more highly conductive targets.

Target indicators on the screen only represent the last object detected. This detector has fast target response and is able to detect different objects in very close proximity. Therefore, the Target-ID displayed may change rapidly as you sweep the search coil.

Three seconds after a target is detected, the ID numbers will time-out and disappear and the Target Category Icon will change to the non-illuminated state.

Solid illumination of a singular target category indicates the detector is confident of the target identification. If target-ID confidence is low, the detector will assign several possible categories with the most likely target category solid black and less likely target categories shaded gray.

Iron, Gold and Silver Indicators
The group border momentarily flashes when an object in that group is present. The border flashes independently of the notch settings. Relic hunters will frequently seek out iron-laden sites as good prospective treasure-hunting sites. The iron indicator alerts the user to the presence of iron, even if iron has been discriminated out. Relic hunters can search free of iron-target audio, yet still be alerted to the presence of ferrous objects or search with no discrimination and use the FeTone™ feature to decrease the Audio Volume of ferrous targets.

4-Tone Target Identification
The detector will provide 1 of 4 sounds for any metal object detected: a bass, low, medium or high tone. This audio feedback system is useful in conjunction with the visual Category Icon system described above.

Target Conductivity Bar

<table>
<thead>
<tr>
<th>Range</th>
<th>Iron</th>
<th>Gold</th>
<th>Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td>Iron</td>
<td>Gold</td>
<td>Silver</td>
</tr>
<tr>
<td>Target-ID</td>
<td>1-19</td>
<td>20-29</td>
<td>60-69</td>
</tr>
<tr>
<td></td>
<td>30-39</td>
<td>70-79</td>
<td>80-89</td>
</tr>
<tr>
<td></td>
<td>40-49</td>
<td>70-99</td>
<td>80-99</td>
</tr>
<tr>
<td></td>
<td>50-59</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Iron: Foil, Nickel, Aluminum, Zn
Gold: Copper, Brass, Silver, Nickel Silver Copper
Silver: Antimony, Mercury, Lead, Zinc, Copper
See chart below for description of tones induced by different metals in different modes:

<table>
<thead>
<tr>
<th></th>
<th>Iron</th>
<th>Gold</th>
<th>Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fe</td>
<td>2 3 4 5 6 7 8 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Iron</td>
<td>Foil</td>
<td>Nickel</td>
</tr>
<tr>
<td>Jewelry</td>
<td>Bass</td>
<td>Med</td>
<td>Med</td>
</tr>
<tr>
<td>Coin</td>
<td>Bass</td>
<td>Bass</td>
<td>Med</td>
</tr>
<tr>
<td>Artifact</td>
<td>Bass</td>
<td>Med</td>
<td>Med</td>
</tr>
<tr>
<td>Custom</td>
<td>Bass</td>
<td>Med</td>
<td>Med</td>
</tr>
<tr>
<td>AM</td>
<td>User definable (default VCO)</td>
<td>VCO</td>
<td></td>
</tr>
</tbody>
</table>

Ferrous, gold and silver targets will generally register within their corresponding category icon ranges. Targets that are not gold or silver register within the same range according to their electrical conductivity.

Note the electrical conductivity of a target depends on both its composition and SiOe. Silver is more conductive than gold so it registers farther to the right and the larger the silver object, the farther it registers to the right. There are a wide variety of metals and not all targets can be identified for certain until unearthed. See coin reference table below.

<table>
<thead>
<tr>
<th>Target-ID Coin Reference</th>
<th>Below are known Target-IDs for some reference coins:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merovingian Triens (gold, France)</td>
<td>21 1 Euro Coin 48-56</td>
</tr>
<tr>
<td>Celtic Potin (copper+lead)</td>
<td>27 Medieval double sol coin (France) 50</td>
</tr>
<tr>
<td>Russian Scale Peter I, 1706, Silver, 0.25 gr.</td>
<td>34-36 British £1 57-62</td>
</tr>
<tr>
<td>US Nickel</td>
<td>34-36 US Dime 64-68</td>
</tr>
<tr>
<td>Roman Nummus (bronze)</td>
<td>40 Polish Zloty (Pre-WWII) 2zl (1933 silver) 75-76</td>
</tr>
<tr>
<td>2 Euro Coin</td>
<td>43-47 US Quarter 74-77</td>
</tr>
<tr>
<td>British 20p</td>
<td>45-46 US Silver Dollar 80-82</td>
</tr>
<tr>
<td>USSR, 5 kopeek, 1961, Bronze, D 25 mm.</td>
<td>46 Russian, 1 ruble Nikolay II, 1896, Silver, D 34 mm. 87-88</td>
</tr>
<tr>
<td>Bulgarian 1 lev</td>
<td>47-49</td>
</tr>
</tbody>
</table>

Jewelry, Coin and Artifact modes have predefined audio tones for the various Target Category groupings. The All Metal mode has a single proportional tone (V.C.O.) for all categories. The Custom mode is programmable and users can assign any tone to any of the Target Category groups. The Custom mode default tone for all categories is a single proportional tone (V.C.O.). V.C.O. varies in pitch and volume depending on the depth and SiOe of the target. The custom tones are automatically saved when the unit is turned off.

**CUSTOM MODE PROGRAMMABLE TONES**

To program your Custom mode tones:

1. Press button until CUSTOM is activated.
2. Press and hold approximately 1 second. The Fe icon will start flashing.
3. Press button to cycle through target categories.
4. To select a tone for the desired category, press UV or U-U to cycle through 5 tone options (0VCO, 1 bass, 2 low, 3 medium, 4 high).
5. To exit the tone selection mode, press .
6. To continue setting tones for additional categories press and cycle to the next target category. To exit the tone selection mode, press .
DEPTH & TARGET DISPLAY

READING THE DISPLAY

The display shows the PROBABLE identification of the metal detected, as well as its PROBABLE depth.

The detector will register a target upon each sweep of the search coil, when a buried target has been located and identified. If, upon repeated passes over the same spot, the target identification reads inconsistently, the target is probably a trash item. With practice, you will learn to unearth only the repeatable signals.

Target-ID numbers, as indicated on the Coin Reference chart (page 17), are highly accurate when those items are detected. However, there are many other metallic items that will register within these groups, so identification is not always accurate. Multiple targets in close proximity to each other, especially if one is above the other in the soil matrix, can display non-typical ID and Depth, or UmaskV out the deeper target altogether. The greater the distance between the target and the search coil, the less accurate the target identification.

Depth indication in the Pinpoint mode is accurate on coin-size objects as defined in the category groups, but it too can be inaccurate if multiple targets of varying depth and conductivities are in close proximity of each other.

GOLD TARGETS: Gold objects will generally register in the UGOLDV group, with smaller items in groups 2 & 3 and larger items in groups 4 & 5. Gold flakes will register under iron.

SILVERTARGETS: Silver objects will register in the USilverV group, a U.S. dime will register in group 6, a U.S. quarter in group 7, a U.S. half dollar in group 8, and a U.S. dollar in group 9.

Fe 1-19. All sizes of iron objects will register on the far-left side of the scale. This could indicate a worthless item such as a nail, or a more valuable historic iron relic.

2 20-29. Aluminum foil, such as gum wrapper, will register as foil. A small broken piece of pull tab may also register here.

3 30-39. U.S. Nickels, most newer pull-tabs from beverage cans, the type intended to stay attached to the can, will register here. Many gold rings will also register here.

4 40-49. Many medium-size medium-sized gold rings also register here. A few newer pull-tabs and many gold rings will also register here. S-CAP Older screw caps from glass bottles and large gold rings (like a class ring) could also register here. Some non-U.S. coins of recent vintage will also register here.
5  **50-59. US. Zinc coins** and many non-U.S. coins of recent vintage are reclassified here.

6  **60-69. Copper coins, small silver coins (U.S. dime)**

7  **70-79. Medium silvered silver coins (U.S. quarters)**

8  **80-89. Large silver coins (U.S. half dollars)**.

9  **90-99. Very Large silver coins (U.S. silver dollar)**. When used in areas outside the U.S., these categories identify coins or metal objects of high relative conductivity (such as silver coins or relics), or large objects made of any type of metal.

**Caution:** The target indications are visual references. Many other types of metal can fall under any one of these categories. While the detector will eliminate or indicate the presence of most common trash items, it is impossible to accurately classify all buried objects.

See **Target-ID Coin Reference Chart** (Page 18).
GROUND CANCELLATION

WHAT IS GROUND CANCELLATION

Why do I need to cancel out the ground?

All soils contain minerals. Signals from ground minerals are often tens or hundreds of times as strong as the signal from a buried metal object. The magnetism of iron minerals, found in nearly all soils, causes one type of interfering signal. Dissolved mineral salts, found in some soils, are electrically conductive, causing another type of interfering signal.

Ground Cancelation is the process by which the metal detector cancels the unwanted signals coming from the ground minerals while still detecting the signals from buried metal objects. This is accomplished by matching the detector’s Ground setting to the Phase of the ground signal.

When the detector is calibrated to the soil, the result will be deeper target detection, finer operation and more accurate target identification.

The most accurate Ground value is the value displayed when you pump the searchcoil over the ground in an area free of metal.

Ground Grab® Computerized Ground Cancelation:

This control allows you to set the detector’s internal ground setting equal to the Phase of the ground you are searching over.

Press-and-hold to invoke automatic ground cancellation. This will grab the ground value and store it in the detector.

In order to calibrate the detector to the most accurate ground value, pump the searchcoil up and down over the ground while standing in one place over a patch of ground free of metal.

1. Press-and-hold .
2. Start with searchcoil 6V above the ground lower it to about 1V from the ground.
3. Continue the pumping motion up and down until the 2-digit number stabilizes and remains a constant value.
4. At the point where the 2-digit number stops changing, the detector has correctly measured the ground Phase.
5. Release to set the detector’s internal ground setting equal to the last value displayed.

During GROUND GRAB, the detector jumps into ALL METAL operation. The sound you hear is the sound of the ground.

6. Note GROUND GRAB will not automatically balance over highly conductive soils, such as a wet salt water beach. Automatic balancing is not possible in soils with ground values less than 40. The screen will display --Vand an alarm will sound if over metal or on ground with a value less than 40.
**GROUND CANCELATION (Continued)**

**Ground Balance Error Indicator**
When using a metal detector the Ground Phase conditions can change from location to location and even within smaller areas only yards apart. Performance can suffer if the detector is not ground balanced properly so it is important to know when the conditions have changed. The Ground Balance Error arrows will show the user when to rebalance the detector. The downward pointing arrow icon will illuminate and blink when the ground phase condition is lower than the ground balance setting, and the upward pointing arrow icon will illuminate and blink when the ground phase condition is higher than the ground balance setting. When these conditions occur you should rebalance the detector.

Refer to the GROUND section, (page 14), on how to manually adjust the detector’s internal Ground setting. After selecting Ground in the Menu selections, perform the coil pumping described above, and listen to the audio sounds.

If the Ground setting is incorrect, there will be a difference in the sound as the search coil is either moving toward or away from the ground. It sounds like you are either pulling the sound out of the ground or pushing the sound into the ground.

QIf the sound gets louder as you raise the search coil, increase the Ground setting.
QIf the sound gets louder as you lower the search coil, reduce the Ground setting.

Repeat this process of adjusting until there is no sound as you lower or raise the coil.

**NOTE:** Experienced users often prefer to adjust the Ground setting to get a weak but audible response when lowering the search coil. This is called “adjusting for positive response.”

**FeO₄ BARGRAPH**
The FeO₄ 4-segment bar graph indicates the amount of ground mineralization, independent of type, expressed as an equivalent volume concentration of magnetite(Fe₃O₄). It updates every second. It is sensitive to motion and will give the most accurate readings if you “pump” the search coil up and down several times over the ground. The presence of metal or hot rocks will cause the readings to fluctuate.
**HEADPHONE JACK**

This detector has a 1/4" headphone jack. It works with any stereo headphone (not included) that has a 1/4" plug. When the headphone jack is connected, speaker volume is disabled. Using headphones extends battery life and prevents the sounds from bothering bystanders. Headphone use also facilitates detection of the weakest signals.

For safety reasons, do not use headphones near traffic or where other dangers are present. This device is to be used with interconnecting cables shorter than three meters.

The headphone jack has a rubber plug that will help keep foreign material from entering the control box. To ensure it remains weatherproof, do not use headphones during rain or very wet conditions.
CHARACTERISTICS & LIMITATIONS

1. This detector comes with a waterproof search coil. The search coil can be completely submerged into water. The control housing is weatherproof but cannot be submerged in water.

2. BURIED UTILIT4 LINES. This hobby metal detector is not designed to locate buried pipes or cables. First Texas Products manufactures a complete line of pipe and cable locators for this application. These are sophisticated instruments with functionality different from your hobby metal detector.

3. SEVERE SOIL CONDITIONS. While this detector has proprietary circuitry to cancel out minerals naturally occurring in most soil types, it cannot penetrate the most severe soils and it is not intended for use on wet sand and saltwater beaches. However, it is well-suited for detecting on dry sand. Saltwater is highly conductive and requires a more sophisticated type of detector. First Texas Products offers such types of detectors. Other highly mineralized soils, such as those found in some gold prospecting sites, may also limit this detector’s capability. If the detector tends to overload, it could indicate you are in an area containing such severe soils.

4. TARGET-ID. The detector’s Target-ID system calculates and displays the most probably identification. Target-ID is affected by soil conditions, the search coil’s distance from the target, the length of time the target has been buried and the target’s proximity to other dissimilar targets. Very large metal objects can overload the detector and may be classified inaccurately.

5. REDUCE SENSITIVITY. The primary purpose of the Sensitivity control is to allow the operator to reduce the sensitivity of the detector. All detectorists desire to find objects at maximum depth. However, in today’s environment there is a never-ending variety of devices emitting EMI (Electromagnetic Interference) that can interfere with this detector.

There will be environments where the detector cannot operate at maximum sensitivity. This is not a defect. If you find yourself in such an environment, reduce the sensitivity of the detector. Some environments may have so much EMI it is impossible to detect. Both overhead power lines and buried power lines can interfere with this detector. Power line capacity may be finite different during certain times of the day. For instance, peak hours of electrical use that can occur around 6 p.m. can lead to a lot of EMI. If you experience power line interference, try returning to a given area at a different time of day.
<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector chatters, QUsing detector QUses detector beeps erratically indoors or outdoors only or has a slow QUsing detector near QMove away from power lines sensitivity power lines QUses 2 detectors in close proximity at least 6 meters</td>
<td>QEnvironment QReduces sensitivity electromagnetic until erratic interference signals cease</td>
<td>from power lines (20X) apart</td>
</tr>
<tr>
<td>Lowspeaker Q volume QWrong type of battery batteries</td>
<td>Discharged battery QUse Replace battery alkaline</td>
<td></td>
</tr>
<tr>
<td>Display does not lock QMultipletargets QPresent different angles or QDetector emits QHighly mineralized soil QMove to a different area QReduce sensitivity</td>
<td>QEnvironmental emissions QHighly mineralized soil until erratic interference signals cease</td>
<td></td>
</tr>
<tr>
<td>Nopower, nosounds QConnected securely</td>
<td>QDead battery QReplace batteries QCheck connections</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

**CE:** The manufacturer declares that the minimum ESD performance criteria is 1) the unit shall not be permanently damaged and 2) operator intervention is allowed. This product is RoHS compliant. This product meets the requirements of Industry Canada CANICES-3B/NMB-3B.
**TREASURE HUNTER’S CODE OF ETHICS:**

- Always check Federal, State, County and local laws before searching.
- Respect private property and do not enter private property without the owner’s permission.
- Take care to refill all holes and leave no damage.
- Remove and dispose of any and all trash and litter found.
- Appreciate and protect our inheritance of natural resources, wildlife and private property.
- Act as an ambassador for all treasure hunters; use thoughtfulness, consideration and courtesy at all times.
- Never destroy historical or archaeological treasures.
- All treasure hunters may be judged by the example you set; always conduct yourself with courtesy and consideration of others.

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**5-YEAR LIMITED WARRANTY**

Register your warranty on-line for a chance to win a FREE DETECTOR
For details, visit www.fisherlab.com

The F44 metal detector is warranted against defects in materials and workmanship under normal use for five years from the date of purchase to the original owner. Damaged due to neglect, accidental damage or misuse of this product is not covered under this warranty. Decisions regarding abuse or misuse of the metal detector are made solely at the discretion of the manufacturer.

Proof of purchase is required to make a claim under this warranty.

Liability under this Warranty is limited to replacing or repairing, at our option, the metal detector returned, shipping cost prepaid, to First Texas Products. Shipping cost to First Texas Products is the responsibility of the consumer.

To return your detector for service, please first contact First Texas Products for a Return Authorization (RA) Number. Reference the RA number on your package and return the detector within 15 days of calling to

Fisher Research Labs
1465 Henry Brennan Dr.
El Paso, TX 79936
Phone 915-225-0333 ext. 118

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NOTICETOCUSTOMERSOUTSIDE THE U.S.A.
This warranty may vary in other countries; check with your distributor for details. Warranty does not cover shipping cost to and from the U.S.A.

According to FCC part 15.21, changes or modifications made to this device not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This device complies with FCC Part 15 Subpart B Section 15.109 Class B.
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www.fisherlab.com
**ACCESSORIES**

**Fisher® Padded Carry Bag**  
Rugged double stitched construction. Includes handy exterior pocket for extra batteries or small accessories.  
– 103693000C

**Fisher® Camo Pouch**  
Camo pouch with two inside pockets, belt included.  
– PCH-F

**Stereo Headphones**  
Use with Fisher® metal detectors. Lightweight and adjustable with true stereo sound, adjustable volume, 1/4 jack with 1/8 adaptor, 4' cable.  
– 9720950000

**Metal Sand Scoop**  
Large galvanized metal scoop with filtering holes. Strong rubberized grip.  
– SAND SCOOP

**Lesche Knife**  
Made from high quality heat-treated tempered steel. The ultimate digging tool. Comes with a durable sheath. 12” in length with a 7” serrated blade.  
– LESCHE KNIFE

**Fisher® Baseball Cap**  
One size fits all.  
– FCAP

**Fisher® T-Shirt**  
100% cotton with Fisher® Logo. Sizes: S, M, LG, XL & XXL  
– FTSHIRT

**Replacement/Accessory Search Coils**

<table>
<thead>
<tr>
<th>Coil Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>7” Round Elliptical Accessory Coil</td>
<td>7COIL-RE-F</td>
</tr>
<tr>
<td>9” Triangulated Concentric Elliptical Accessory Coil</td>
<td>9COIL-EE</td>
</tr>
<tr>
<td>11” Triangulated Concentric Elliptical Replacement Coil</td>
<td>11COIL-EE</td>
</tr>
</tbody>
</table>

**Coil Covers**  
Specially made to protect your coil from abrasion and damage.  
9” Triangulated Concentric Elliptical Coil Cover – 9COVER-EE  
11” Triangulated Concentric Elliptical Coil Cover – 11COVER-EE

**Rain Cover**  
Neoprene protective cover specially made to protect your F11 from weather – COV-F11.  
Neoprene protective cover specially made to protect your F22 or F44 from weather – COV-F22

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### Gold Prospecting Kits

<table>
<thead>
<tr>
<th>Items Included:</th>
<th>Gold Kit</th>
<th>Deluxe Kit</th>
<th>Hardrock Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ½” Gold Pan</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td>14” Gold Pan</td>
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<td>Classifier</td>
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<tr>
<td>2 – Shatterproof Vials</td>
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<td>✗</td>
</tr>
<tr>
<td>Snuffer Bottle</td>
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<td>Black Sand Magnet</td>
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<td>Treasure Scoop</td>
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<td>Tweezers</td>
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</table>

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