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Radio shack discovery 1000 metal detector user manual. Radio shack discovery 2000 metal detector manual. Discovery 2000 metal detector manual. Radio shack metal detector discovery 2000 TESTING YOUR DETECTOR 1. A percentage of pull-tabs will still be detected especially pull-tabs that are broken in half in the shape of a "beaver tail". Accurately pinpointing small metal objects takes practice. Leave enough slack in the cable to let you adjust the searchcoil when you are hunting on uneven ground. Headphone Jack The detector's internal speaker disconnects when you connect headphones. Ultra Slow Sweep VLF Discrimination - distinguishes between different metals efficiently, even when the detector is swung at slow speed. When the detector detects a buried target, continue sweeping the searchcoil over the target in a narrowing side-to-side motion. This makes it easier to identify the type of metal being detected. The detector automatically sets itself to this target mode when you first turn it on. If your detector is not performing as it should, take it to your local RadioShack store for assistance. The object your testing with needs to be swung in a side-to-side motion before the detector will be able to recognize it. Other targets, such as large gold, will also fall into this category. Most gold and nickels will also be eliminated when tuning the DISC/NOTCH control clockwise for higher discrimination. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts. SENSITIVITY also turns the detector on and off. It can distinguish between different types of metals and "tune out" the ones you don't want to search for. Raising the searchcoil while sweeping or at the end of a sweep will cause false readings. IMPORTANT: Your Discovery 2000 metal detector requires two 9-volt ALKALINE batteries, such as RadioShack Cat. No. 33-1029 or 33-1125). Sweep the searchcoil more slowly and hold the detector correctly. The Discovery 4-Inch Coil System (RadioShack Cat. Coin-shooting, relic hunting, and gold nugget shooting are some of the many ways your detector can be utilized. Check and replace the batteries if necessary. Try cutting back the SENSITIVITY slightly until the false signaling disappears. If a signal does not repeat after you sweep the searchcoil over the target is probably junk metal. Follow these steps to pinpoint a target. SCREW CAPS -- indicates that the target is probably junk metal like a bottle cap. Some rusted oxidized iron will occasionally register in the silver range. FINE TUNING Once you become familiar with how your metal detector works, you can fine tune it to make it less sensitive to interference and more selective in what it finds. However, the detector might sound a tone and show an indication on the display if an iron object is highly oxidized. To disconnect the searchcoil's cable from the detector might sound a tone and show an indication on the display if an iron object is highly oxidized. button on the upper end of the lower stem and slide the lower stem into the upper stem. No. 63-3007 DISCOVERY 2000 Metal Detector OWNER'S MANUAL © 1996 Tandy Corporation All Rights Reserved RadioShack is a registered trademark used by Tandy Corporation Please read before using this equipment. Some medium-size gold items and large aluminum items might register within the SCREW CAPS category. You must sweep the searchcoil over the metal for the detector to detect it. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. NOTE: Gold items will also be eliminated as the control is turned clockwise. Or, the detector sounds more than one type of tone when it finds a target. Some states do not permit limitation or exclusion(s) may not apply to the purchaser. All Metal: detects all types of metal without discrimination. The following suggestions will help you care for your metal detector so you can enjoy it for years. It is also similar to the BH Quick Draw II or Pioneer 202, except without Depth readout. PROBLEM SUGGESTION The detector displays or sounds false signals. TESTING AND USING THE DETECTOR To learn how the detector displays or sounds false signals. cable around the stem. Insert the coil's plug into the matching connector on the control housing. If a signal does not repeat after swinging the coil directly over the suspected target a few times, it is more than likely trash metal. Because of its smaller size, the 4-Inch Coil has a narrower detection field and is less susceptible to interference from trash items. RadioShack is a trademark used by Tandy Corporation. The Discovery 2000 Metal Detector has a stereo headphone jack. To reduce false signals when searching very trashy ground, scan only a small area at a time using slow, short overlapping sweeps. CONTENTS Understanding the Detector..... ..11 Testing and Using the Detector 9 Setting a Target Mode . ..9 ALL METAL. ..9 AUTO NOTCH .. 11 Outdoor Testing Ranges. ..13 Fine-Tuning the Detector... .13 Adjusting SENSITIVITY... .13 Adjusting DISC/NOTCH.. ..14 Pinpointing a Target.. ..14 Troubleshooting.. .16 Resetting the and Use . .15 Care and Maintenance.. .17 PREPARATION ASSEMBLING THE DETECTOR Assembling your detector is easy and requires no special tools. Do not listen at extremely high volume levels. Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable), or rechargeable batteries of different capacities. YOUR DETECTOR IS NOT STABLE AND HAS A PULSING, DISTORTED TONE INSTEAD OF A CLEAR TONE. Try finding other metal in the area. RadioShack Limited Warranty This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Once a buried target is indicated by a good tone response continue sweeping the coil over the target in a narrowing side-to-side pattern. This may also occur if the SENSITIVITY is set too high. Scroll down or click here for an OCR text scan of the original manual Lonestar Manual pdf 600k Discovery 2000 Pro Metal Detector (630-3007) Specifications Faxback Doc. Adjust the searchcoil so the flat part points toward the ceiling. The detector also might sound a low tone if a pull tab is bent, folded, or highly oxidized. PULL TAB -- indicates that the target is probably a pull tab from an aluminum can. The LCD target display will usually lock on when a target is being detected and not lock on when the unit "falses" or an object is borderline discriminated. • If a pull tab is broken in half, the "beaver tail" part of the tab causes the detector to sound a low tone. See "Outdoor Testing and Use" on Page 12 and "Pinpointing a Target" on Page 14. An arrow on the bottom display points to DISC. If necessary, repeat Steps 1-4 to zero in on the exact spot on the ground where the detector beeps. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES AND ANY IMPLIED WARRANTIES AND ANY IMPLIED WARRANTIES AND EXPRESS WARRANTIES AND EXPRESS WARRANTIES CONTAINED HEREIN. While holding the searchcoil level to the ground about 1-2 inches above the surface, slowly move the searchcoil over the area where you placed the sample, sweeping the searchcoil in a side-to-side motion. NOTES TREASURE HUNTER'S CODE OF ETHICS 1. Replace the compartment door by carefully inserting opposite side of clip first. ADJUSTING DISC/NOTCH Only applies when unit is not operating in the ALL METAL mode. All illustrations can be found in the original manual published by RadioShack. FINE-TUNING THE DETECTOR After you become familiar with how your detector works, you can fine tune it to make it less sensitive to interference and more selective in what it finds. The gold spectrum is to the left of the meter and the silver spectrum is to the right. Ah, the old favorite BH Quick Draw II and it's close cousin, the Discovery 2000 featured here and including the several variants sold by other chain-store outlets. Not all gold rings will give you a low tone. Wind the searchcoil cable around the stem. The detector sounds three beeps, LCD arrow momentarily appear and unit presets to the ALL METAL mode of operation. Note: If you are using a coin, the detector will detect it more easily if you hold it so a flat side is parallel with the flat side of the searchcoil (not the edge). Here are a few basic rules you should follow while using your detector. This target mode lets you set the detector to ignore a wide category of metal types. Most good objects will respond with a good repeatable signal. Top Display Bottom Display In this example, the detector is detecting a bottle cap and is set to the ALL METAL target mode. Modifying or tampering with the detector's internal components can cause a mal function and might invalidate its warranty. For instance, some rusted bottle caps will emit a high tone and indicate on the LCD readout in the SILVER range. Dropping it can damage circuit boards and cases and can cause the metal detector to work improperly. Batteries might leak and damage circuit boards and cases and can cause the metal detector to work improperly. the Discovery 2000 is in the DISC or NOTCH modes, its Audio Target Identification (ATI) system automatically reject iron and most pulltabs yet retain detection of nickels and most small gold rings. For the best sound, use stereo headphones (such as Cat. Note: Never test the detector on a floor inside a building. Snap a 9-volt battery onto each battery terminal, then slide the bat- The LOW BAT indicator on the front of batteries inside the compartment. There is always a trash to treasure ratio when detecting; the LCD allows a visual reference to minimize the trash only - it will not completely eliminate all trash items. Note: Many detector problems are caused by weak, dead, or improperly connected batteries. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. To adjust the sensitivity, turn SENSITIVITY clockwise to increase it, or counterclockwise to reduce it. If you want to set the detector so it ignores only a specific type of metal, see "Auto Notch" on Page 11. 5. The DISC/NOTCH control clockwise - yet, nickels and small gold will be retained. Raise the searchcoil about 1 foot then press AUTO NOTCH. It sounds a high tone when it detects metals such as copper, silver, and brass. The indicator is only a visual reference to help you decide if an item is worth investigating. FALSE SIGNALS Your detector is extremely sensitive, and will find even deeply-buried metal. USING HEADPHONES You can connect a pair of stereo head phones (not supplied) to the detector so you can listen to it privately. Will usually emit a medium tone when targeted. Traffic Safety Do not wear headphones while operating your detector near high-traffic areas. Expect some targets to be junk items, even if the detector emits a tone. Wipe the detector with a damp cloth occasionally to keep it looking new. All treasure hunters may be judged by the example you set. ©1996 Tandy Corporation. Leave enough slack in the cable to let you adjust the coil when you are hunting on uneven ground. You cannot test a unit indoors on the floor, because there is usually other metal in the floor that may conflict with the detector's signal or even mask the signal completely. Leave the land & vegetation as it was. Some large gold items might register within the 1¢ ZINC category. Notes: The detector will not detect most iron and steel objects when set to the DISC or AUTO NOTCH target modes. Then the arrow points to that metal size and type. Note: Your metal detector requires two 9-volt alkaline batteries (not included) for operation. The displays show a probable identification of the object (on the target ID readout), as well as the mode of operation being used (on the target ID readout), as well as the mode of operation being used (on the target ID readout), as well as the mode of operation being used (on the target ID readout). the item, to help you find it later. YOUR LCD READOUT IS NOT LOCKING IN OR ID'ING WHILE PASSING OVER A TARGET & THERE IS MORE THAN ONE TONE BEING EMITTED BY THE DETECTOR OVER THE SAME TARGET. If the target is heavily oxidized, the detector might not display the correct metal type. Respect the rights and property of others. If you set the detector's sensitivity too high, the top display might randomly display arrows and the detector might sound false tones. Take visual note of the place on the ground where the "beep" happens as the coil is slowly moved side-to-side. The DISC/NOTCH control adjusts for different levels of discrimination. If it still does not function properly, you might need to reset the detector (see "Resetting the Detector" on Page 1 7). After selecting your choice of mode for operation, swing the searchcoil gently side-to-side, slightly overlapping each sweep as you move forward. Turn on the detector. We suggest that you practice finding and digging up small metal objects on your own property before you search other locations. No. 23-553) to power your detector. Zinc pennies will emit a medium tone instead of a high tone as do copper pennies, quarters, and dimes. Move to a different testing location. Adjusting SENSITIVITY Broadcast antennas and power lines can cause the detector to indicate false signals and operate erratically. AUTO NOTCH 2. LISTENING SAFELY To protect your hearing, follow these guidelines when you use headphones. By turning the DISC/NOTCH control clockwise the detector will eliminate most trash items such as foil and aluminum while still detecting silver and copper - depending on how high it is set. When operating in the DISC mode, the level of discrimination is increased by turning the control clockwise from the LOW position. If you are looking for deeply-buried objects, a medium-sized coil, such as the standard coil that came with your detector, is more efficient. If the detector does not turn on, has weak volume, will not tune properly, operates erratically, or drifts, check both batteries. SILVER Range: 1¢ 10¢ 25¢ 50¢ -- indicates that the target is probably a penny, dime, guarter, or half-dollar. When searching very trashy ground, it is best to scan small areas with slow, short overlapping sweeps. Carefully insert the tabs on the battery compartment door into the slots on the detector, then press the door down until it clicks tabs while detecting silver/copper coins. Always obtain permission before searching any site. ALL METAL When the detector is set to ALL METAL When the detector is set to ALL METAL MODE When first turning the unit on, the site. This is not a malfunction. The mode indicator (arrow) should now have an arrow pointing down to the DISC position. Some pull-tabs, especially if they are broken in half, will give you a low tone similar to most gold rings and nickels. An arrow on the bottom display points to AUTO NOTCH. Just follow these steps: 1. Because of its smaller size, it has a narrower detection field and is less susceptible to interference from junk metal. If the LOW BAT indicator lights during normal use or the detector does not function properly, replace the batteries. Stop the coil directly over this spot on the ground. NICKEL -- indicates that the target is probably a nickel. Try replacing your batteries with two new alkalines to determine if this is the cause. Turn on the detector by turning SENSITIVITY clockwise until it The detector beeps 3 times, arrows point to all options on both displays, and the LOW BAT indicator lights for a few seconds. The Discovery 2000 is a very sensitive and deep-seeking detector. It will loudly respond to many targets that other detectors would only emit a weak signal for. Your local RadioShack store has a wide selection of headphones. OPERATION TURNING ON THE DETECTOR 1. The key to handling these types of signals is to dig for only those targets that emit a strong, repeatable signal. This makes it better able to isolate precious metals in trashy areas. The hobby is completely dependent on the type of equipment being used and the operator's expertise. ADJUSTING SENSITIVITY to adjust the detector's sensitivity to conditions that can cause it to respond erratically. Make sure you keep your search approximately 1" above ground as you search. IRON/FOIL: Indicates that the target is probably iron or foil. Many metal detector problems are caused by weak, dead, or improperly connected batteries. Depending on the alloys used to make them. To prevent erratic signals and difficult pinpointing in trashy areas, consider purchasing the Discovery 4-Inch Coil System (RadioShack Cat. For example, broadcasting antennas and power lines can cause false signals. Adjusting DISC/NOTCH Discrimination is the detector's ability to differentiate between types of metal and either find or ignore them. The display does not show the correct metal type when the detector as it is turned towards HIGH, making possible the rejection of screw caps and zinc pennies, yet still detecting Nickels and many gold rings. As you sweep the searchcoil back and forth over the ground, learn to recognize the difference between the signals that occur at random and signals that are stable and repeatable. By pressing the ALL METAL touchpad, the unit will return to ALL METAL from any other mode. Because of this, trash-induced signals and other sources of interference might cause signals that seem confusing. GOLD Range: IRON FOIL -- indicates that the target is probably iron or foil. However, do not let water enter the detector's chassis. NOTES: The low battery indicator along with all other arrow indicators, lights briefly when you turn on power, so you know the detector is working properly and the batteries are good. Never swing the coil as if it was a pendulum. To connect headphones to the detector, insert the headphones to the detector, insert the headphones to the detector is working properly and the batteries are good. Never swing the coil as if it was a pendulum. To connect headphones to the detector, insert the headphones to the detector, insert the headphones to the detector is working properly and the batteries are good. Never swing the coil as if it was a pendulum. To connect headphones to the detector, insert the headphones to the detector, insert the headphones to the detector is working properly and the batteries are good. depth of detection, always set SENSITIVITY as high as possible. To connect headphones '1/4-inch plug into the headphone jack on the front panel. TROUBLESHOOTING If your detector by turning it off and on repetitively. The DISC/NOTCH control knob now functions as a standard variable discriminator. If you're air testing, you need to point the coil to the ceiling and make sure there is no metal near the coil whatsoever. Then an arrow points to ALL METAL on the bottom display. CARE AND MAINTENANCE Your RadioShack Discovery 2000 Metal Detector is an example of superior design and craftsmanship. You can widen or narrow the range of metal types that the detector will detect by adjusting DISC/NOTCH on the front of the detector will detect by adjusting DISC/NOTCH. On occasion, if the iron is highly oxidized, a tone may be emitted. The LCD target display will give a visual readout of the probable type of metal being targeted and what denomination of coins are detected. The following illustration shows the types of metal the detector will ignore as you turn DISC/NOTCH. Insert the searchcoil's plug into the matching connector on the detector will ignore as you turn DISC/NOTCH. Insert the searchcoil's plug into the matching connector on the detector will ignore as you turn DISC/NOTCH. water to prevent corrosion of the metal parts. Now that your metal detector is assembled, it's time to learn how to use it. YOUR DETECTOR IS EMITTING FALSE SIGNALS WHEN YOU'RE IN THE FIELD Your SENSITIVITY may be set too high. Do not leave it for the next treasure hunter to find. Set the volume to the lowest setting before you begin TURNING ON YOUR DETECTOR Hold the detector in a comfortable position and turn it on by rotating the combination POWER/SENSITIVITY clockwise about 3/4's of a turn. Hold the detector in a comfortable position. As you sweep the searchcoil back and forth over the ground, learn to recognize the difference between signals that occur at random and signals that are stable and repeatable. Adjust the stem to a length that lets you comfortably stand upright. Dispose of batteries properly; do not bury or burn them. Adjust the searchcoil to the desired position, then tighten it by turning the bolt and knurled knob in opposite directions until they stop. All Rights Reserved. NOTE: When operating in about one to two inches from the surface. 2. Please read this section thoroughly before you use your Discovery 2000. After using the coil in saltwater, rinse it with fresh water to prevent corrosion of the metal parts. However, if you are looking for tiny objects (coin-sized and smaller) that are not buried too deeply, a 4-inch searchcoil (such as RadioShack Unlimited No. 10484954, not supplied) might work better. Most buildings have metal of some kind in the floor, which might interfere with the objects you are testing or mask the signal completely. Extended high-volume listening can lead to permanent hearing loss. Wipe the metal detector with a damp cloth occasionally to keep it looking. new. If needed "X" the target at different angles to "zero in" on the exact spot on the ground at which the "beep" happens. All Metal: By pressing the ALL METAL touchpad or when first turning the unit on, the unit will then respond to all types of metal without any discrimination. To set the detector to the DISC target mode, raise the searchcoil abut foot then press DISC. The detector sounds three different tones to distinguish between categories of detected items: a low tone for small gold and nickel; a medium tone for most old and new pull-tabs and some gold; and a high tone for small gold and nickel; a medium tone for most old and new pull-tabs and some gold; and a high tone for small gold and nickel; a medium tone for most old and new pull-tabs and some gold; and a high tone for small gold and nickel; a medium tone for most old and new pull-tabs and some gold; and a high tone for small gold and nickel; a medium tone for small gold and nickel; a m indicator stays on continuously, replace the batteries. Find an area on the ground out side where there is no metal. Using headphones also saves battery power and makes it easier to identify subtle changes in the sounds you hear, for better detection results. OPTIONAL ACCESSORY The medium-sized searchcoil supplied with your detector efficiently finds deeply-buried objects, and is ideal for general use. Dispose of any junk you find, only in approved areas. Rotate SENSITIVITY clockwise to increase, or counterclockwise to decrease the detector's sensitivity. The top display is divided into gold and silver ranges. GOLD & NICKEL: All nickels and many gold items will emit a low tone. In this mode the detector emits a low tone (for most small gold and nickels) and a high tone for copper, silver, and brass. NOTE: All of the target indications are used as symbols and a visual reference of what is being targeted. Auto Notch: automatically rejects most junk targets while retaining nickels and small gold items. If the detector detects the item, it sounds relaxed at your side. Caution: Do not over tighten the searchcoil or use tools such as pliers to tighten it. When the detector senses a target, an arrow will indicate the probable target being detected. The following troubleshooting steps may assist you in case you're having problems with your Discovery 2000. Place the detector on a wooden or plastic table, then remove any watches, rings, or metal jewelry you are wearing. Follow these steps to install the batteries. Be careful to not operate the SENSITIVITY so high that the Target modes which determine what types of nickels (many gold items), pull-tabs, and screw caps (in that order). Leave the land and vegetation as it was. To reset the detector, turn SENSITIVITY on and off three or four times. Slowly sweep a sample of the material you want the detector, turn SENSITIVITY on and off three or four times. Slowly sweep a sample of the material you want the detector, turn SENSITIVITY on and off three or four times. the batteries are properly connected and make sure they are not low. Never destroy historical or archaeological treasures. FEATURES With your RadioShack Discovery 2000 Metal Detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere. When the detector is set to a target mode, the top display is blank until the detector the AUTO NOTCH touchpad, the mode indicator (arrow) will point down to the AUTO NOTCH position. RESETTING THE DETECTOR If the detector does not work properly after you replace the batteries, or if it stops working and sounds a continuous tone, you might need to reset it. Use only fresh batteries of the required size and type. Many other types of metal can fall under any one of these indications. Loosely attach the searchcoil to the lower stem using the supplied bolt and knurled knob. When repetitively passing the coil over the object, allow a few seconds to pass to give the detector a chance to recover from its last reading. The detector responds with a strong signal when it detects most valuable metal objects. · ALL METAL · DISC (discrimination) · AUTO (automatic) NOTCH 2. Even though some headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard. Carefully remove battery compartment door by pressing release clip at right side of door. No. 63-3009) is highly sensitive and offers superior performance when hunting for small pieces of jewelry), or in mineralized or highly trashed areas. If you can raise the coil scrubbing the ground, it's either small pieces of jewelry), or in mineralized or highly trashed areas. If you can raise the coil scrubbing the ground, it's either small pieces of jewelry), or in mineralized or highly trashed areas. If you can raise the coil scrubbing the ground, it's either small pieces of jewelry), or in mineralized or highly trashed areas. If you can raise the coil scrubbing the ground, it's either small pieces of jewelry), or in mineralized or highly trashed areas. or deep. Be sure the holes and pins line up correctly. Be careful to prevent water from entering the chassis. Some gold rings fall in the pull-tab range and may emit a medium tone similar to the pull tab. Handle the detector gently and carefully. When you find a metal item, wait a few seconds after the tone stops before continuing, to allow the detector time to reset. GOLD/SILVER range: Indicated on the top of the readout. With the electronically advanced Discovery 2000 metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detector and diligent practice you will achieve a level of expertise you will achieve you the threshold levels for better detection results, and also reduces drain on the batteries. If you're not picking up coins or metal, even though your coil is close to the objects to be detected, there is a chance that you are not maneuvering the coil properly. The searchcoil supplied with the detector is waterproof and may be submerged in either fresh or salt water. Dropping it can damage circuit boards and cases and can cause premature wear of parts. The target might be a type of metal that the detector does not recognize. Modifying or tampering with the detector's internal components can cause a malfunction and might invalidate your detector's warranty. When operating in the AUTO NOTCH mode, the DISC/NOTCH control turned clockwise from LOW will eliminate items that fall in the range of screw caps and zinc pennies, in addition to most pull-tabs, yet retain nickels and most small gold items. For example, the detector might sound a high tone and display an indication in the SILVER range if it detects a rusted bottle cap. NOTE: When the arrow points to coin, the detector could be sensing either a coin or another type of metal (such as jewelry, tokens, medals, or even junk metal). searching. The following suggestions will help you care for your detector so you can enjoy it for years. False signals can be caused by trashy ground, electrical interference, or by large irregular trash objects. Follow these steps to set the detector to the AUTO NOTCH target mode. If you set the detector to the DISC or AUTO NOTCH target modes (see "Setting a Target Mode" on Page 9), its built-in audio target identification (ATI) system automatically sounds a unique audio tone for each of three categories of metal. Because of this, trash-induced signals and other sources of interference may emit signals that seem confusing. Adjust SENSITIVITY on the front of the detector in any target mode, to help reduce or eliminate these false signals. Simply bring your RadioShack sales slip as proof of purchase date to any RadioShack store. Outdoor Testing and Use 1. If the detector receives a strong indication, the arrow appears steadily. Ultra Slow Sweep VLF (Very Low Frequency) Discrimination -- effectively distinguishes between different types of metals when the detector is swept at slow speeds. OPTIONAL ACCESSORY The best coil to use depends on where and what you will be targeting when you are in the field. Move slowly, hurrying will only cause you to miss targets. Find a sample of the material you want the detector to find (such as a gold ring or a coin) and place it on the ground. These signals are easily recognized by their often broken or nonrepeatable nature. IRON & STEEL: In the DISC or NOTCH modes, most iron and steel objects usually will not be detected. You can extend battery life by using headphones. Each mode of operation can be set by choosing one of the three Touchpads on the control panel after the unit is oxidized iron might register somewhere within the SILVER range. The Quick Draw II circuit does almost the detector to widen or narrow the 'j range of metal types that the detector will detect. To help prevent erratic signals and pinpoint targets in trashy areas, try a smaller searchcoil (see "Optional Accessory" on Page 2). NOTE: To adjust the coil, simply loosen the knob. The detector's features include: Liquid Crystal Displays -- show the detector's coil under water, and use the detector in just about any type of weather. While pressing and holding down the release clip on the right side of the battery compartment door, lift open the door. Three-Tone Audio Discrimination -- sounds distinctive tones for different types of metals, to make target identification cation easier. TRAFFIC SAFETY Do not wear headphones while operating your detector in traffic areas. While it's perhaps a useful addition, the indication is subject to interpretation, so not having depth readout is not really that big of a drawback. The LOW BAT indicator on the front of the detector lights for a few seconds when you first turn on the detector. PINPOINTING A TARGET Accurately pinpointing a target while detecting makes digging it up easier. THREE MODES OF OPERATION 1. Adjust SENSITIVITY. This searchcoil is highly sensitive and offers superior performance when hunting for small objects such as gold nuggets or small pieces of jewelry, or when hunting in mineralized or highly trashy areas. Adjust the stem to a length that lets you metal such as pull tabs but still registers silver and copper coins. If you cannot, take the detector to your local RadioShack store for assistance. Once you set the volume, do not increase it. Adjusting DISC/NOTCH (see "Adjusting DISC/NOTCH" on Page 14) has no effect in this mode. Cautions: The searchcoil's plug fits into the connector only one way. AUTO NOTCH When the detector is set to AUTO NOTCH, it sounds a low tone and displays an indicator when it detects nick els and small gold objects, and automatically ignores most junk metal items. Your Discovery 2000 Metal Detector is an example of superior design and craftsmanship. There is a percentage of gold rings, around 15%, that emit a medium tone, but the LCD will still read under the gold spectrum. A separate display lets you know when it is time to replace the batteries. If the detector does not display and sound the same signal each time, the target is probably heavily oxidized metal. If the detector is set to the DISC or AUTO NOTCH target mode, adjust DISC/NOTCH clockwise toward HIGH to set the detector to ignore items such as bottle caps, zinc pennies, and pull tabs, while still detecting items such as nickels and small gold items. Fill in the holes. Some false signals will occur on highly rusted metals, but if the signals does not repeat over the same area while passing the coil over it, then the target is usually not worthwhile. This can create a traffic hazard and is illegal in some areas. The detector sounds a low tone when it detects small gold and nickels, a medium tone when it detects copper, silver, and brass. Then press carefully down on clip side until battery door snaps in place. Three Tone Audio Discrimination - sounds distinctive tones for different categories of metal objects to make target identification easier. If it is an odd piece of metal that the detector cannot recognize, the meter will also not lock in. The Discovery 2000 is exclusively available at RadioShack stores. To determine how high to adjust the SENSITIVITY, turn the SENSITIVITY clockwise while listening for false signals; if the unit starts to chatter, emitting false signals, reduce the SENSITIVITY slightly until the chatter stops. Snap one battery onto each of the exact spot on the ground where the detector beeps. This will usually occur when there is more than one object over the area you're sweeping. SETTING THE MODE Your Discovery 2000 has three modes of operation: ALL METAL, DISC, and NOTCH. The coil is waterproof and may be submerged in either fresh or saltwater. • Sweep slowly -- hurrying will cause you to miss targets. When in the DISC mode, iron and stee objects generally do not respond. If you set the detector's discrimination too high, the detector will not detect some gold items. UNDERSTANDING THE DETECTOR DISPLAYS The detector's discrimination too high, the detector will not detect some gold items. occurs when the batteries are low. Raising it in the sweep or at the ends of your sweep will cause false readings. You can test the detector indoors and outdoors. CAUTION: Only use fresh batteries of the required size and type. Again make visual note of the spot on the ground at which the "beep" occurs. SCREW CAPS: Indicates that the target probably is a Screw Cap or other types of metal such as bottle caps. If you are looking for tiny objects and coin-sized objects that are not buried too deeply, a 4-inch coil might work better. Top Display Ranges When the detector detects an object, an arrow appears on the top display next to the probable type of metal or denomination of the coin being detect ed. The main key to handling these types of false signaling is to dig only those targets that emit a strong repeatable signal. Cautions: Never leave dead or weak batteries in the detector. 1. While pressing and holding down the button on the top of the lower stem tube into the upper stem tube. Disc: By pressing the DISC touchpad, the detector will automatically reject iron and can then be adjusted by the DISC/NOTCH control for increased discrimination. If a pull-tab is broken in half, the "Beaver Tail" part will emit a low tone. The Discovery 2000 is designed to be versatile and easy to use. Some small gold items might register within the PULL TAB category. Remove the batteries if you do not plan to use the detector might "lock up" and sound a continuous tone if you have low battery voltage or are testing the detector with the searchcoil near a large metal object. Handle the metal detector gently and carefully. This can occur if you're operating near another detector or near power lines that can interfere with the frequency that the detector operates on. Cat. PULL TAB: Indicates that the target is probably a pull-tab. If an arrow points to a coin denomination, the detector might be detecting either a coin or another type of metal (such as jewelry, tokens, medals, or even junk metal) about the same size and type as the coin. Headphone Jack -- lets you connect headphones (not supplied) to the detector. An arrow on the bottom display points to ALL METAL. If the indication is weak, the arrow blinks or does not appear. Besides copper and silver, other items that might emit a high tone include brass and other metals. The DISC/NOTCH control will not affect operation in this mode. Using the supplied bolt and nut with knobs, attach the searchcoil to the lower stem. Set the target mode. Disc: lets you distinguish between junk and valuable metal objects while rejecting most junk targets. This makes it better able to isolate precious metals in these areas. TONES If the detector is set to the ALL METAL target mode, it sounds a single tone when it detects any type of metal being detected and the mode of operation. If the detector detects the material, it sounds a tone and an arrow appears on the and copper pennies under the silver spectrum. An easy work-around for the lack of depth readout, that is possibly more effective, is to simply raise the coil while scanning. Use and store the detector only in normal temperature environments. If the indicator comes on and stays on, the batteries need replacement. When the DISC/NOTCH control is placed fully counterclockwise (Low), the detector will pick up all nickels and gold rings along with pull tabs and copper/silver coins, but still reject iron. CAUTIONS: Do not force the plug or you might damage it. Make sure the pins on the plug align with the holes in the connector. INSTALLING BATTERIES You need two 9-volt alkaline batteries (such as Cat. Besides nickels, other items that might emit a low tone include foil, some pull-tabs, and small gold rings. Also, make sure you are moving the searchcoil straight forward away from you and straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the searchcoil straight forward away from you are moving the search forward away from you are moving to the search forward away from you are moving the search forward away from you are moving to automatic discrimination of most trash items without the loss of nickels and most small gold objects. If the detector does not detect the material, make sure the target mode is set correctly for the type of metal you are searching for (see "Setting a Target Mode" on Page 9), then repeat Step 5. The detector might sound a false signal if it detects some types of heavily oxidized metals. OLD & NEW PULL TABS: These will usually emit a medium tone or no tone at all if in the Notch mode. The detector will still require motion to detect a target in this mode of operation. NOTE: Images are excluded due to the memory requirements; therefore, there will be references to illustrations that do not exist in this text only document. DISC MODE To change operation mode to DISC, simply press the touchpad labeled DISC. If the detector does not detect the item, make sure the target mode is set correctly for the type of metal you are searching for (see "Setting a Target Mode" on Page 9), then repeat Step 5. # 34993 Operating ..6.6 kHz Assembling your Discovery 2000 Metal Detector is easy and requires no special tools. As in the DISC and NOTCH modes, the detector will also require motion to detect a target in the ALL METAL mode. COPPER, SILVER & BRASS: These metals usually will all emit a high tone in the DISC or NOTCH modes. Within this period, we will repair it without charge for parts and labor. After you begin listening, adjust the volume to a comfortable level. 3. No. 23-553. Never pull on the cable. Do not swing the coil, or the test object, too quickly or it may give you a false signal. To set the detector to the ALL METAL target mode from another mode, raise the searchcoil about 1 foot then press ALL METAL on the front panel. NOTE: Some gold rings will not be detected in this mode of operation. Old batteries can leak chemicals that damage your detector's electronic parts. Some small gold will also read as pul-tab. No matter what mode of operation you've chosen (ALL METAL, DISC, or NOTCH), your coil needs to be in movement before the unit will recognize a target. False signals are usually broken or non repeatable. Loaded with features, the detector lets you locate and identify all types of metals with pinpoint accuracy. Nor does it cover a product subjected to misuse or accidental damage. Then adjust SENSITIVITY (see "Adjusting Sensitivity" on Page 13). Fill in any holes you dig. While testing the unit for it capability to pick up coins and other objects, always test away from other metals - a good start is outside on the ground. Cautions: Use only fresh batteries of the required size and type. The first step towards this goal is to carefully read this manual before attempting to operate your new Discovery 2000 metal detector. Over time, your ears adapt to the volume level, so a volume level, so a volume level that does not cause discomfort might still damage your hearing. There are also pull-tabs that are bent and folded or highly oxidized that may emit a low tone. We Service What We Sell 10/95 RadioShack A Division of Tandy Corporation Fort Worth, Texas 76102 8/96 Printed in the USA This webpage brought to you by White River Preparium ~and~ Website Home BH Vintage Detector Home E-Mail Now move the coil straight forward and straight forward to let you hear some outside sounds when listening at normal volume levels, they still present a traffic hazard. IN THE FIELD TECHNIQUES PINPOINTING Accurate pinpointing takes practice and is best accomplished by "X-ing" the suspected target area. If you are not sure about an object you have found, contact a museum or historical society in your area. If this happens, the detector still displays an indication in the GOLD range on the display. Try pinpointing the target from several different angles (see "Pinpointing a Target" on Page 14). Stop the searchcoil directly over this spot on the ground. Do not move the coil too quickly and try not to sweep the coil less than an inch away from the object. Your business website represents your brand. Therefore, its functional efficiency is important for your market reputation. Our web development services helps you to develop websites that comply with current industry standards, providing a seamless experience to your end-users. Our web development services helps you to develop websites that comply with current industry standards, providing a seamless experience to your end-users.

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