

Treasure Cove Metal Detector

Fortune Finder 1020

OWNER'S MANUAL

www.Treasure-Cove.com

805-658-2328

With your 1020 metal detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere, including lawns, snows, mountains and etc. The detector is versatile and easy to use.

Four operating modes:

DISCRIMINATION --- in this mode, the unit comes with auto ground balance. This mode can facilitate you to search for and discriminate the target type based on the different tone for different metal target.

TONE---based on **DISC/TONE** control, the unit can discriminate the metal type with high or low tone.

TARGET---to pinpoint the target accurately by lowering the sensitivity.

ALL METAL---to search for all kinds of metal object. In this mode, the unit comes with auto ground balance.

- **View Meter**---in noisy area, you can search for metal object according to the indication of view meter.
- **Headphone Jack**—lets you connect stereo headphones (not supplied) and operate without trouble.
- **Waterproof Searchcoil**—lets you use the detector even if you must put it under shallow water.
- **Adjustable Stem**---lets you adjust the detector's length for comfortable use.

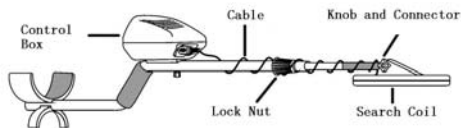
- **Arm Support**---lets you carry and operate your detector comfortably.
- **Power**---Your metal detector requires two 9-volt alkaline batteries (not supplied).

The built in insulating circuit can avoid wrong battery connection and prolong the battery life.

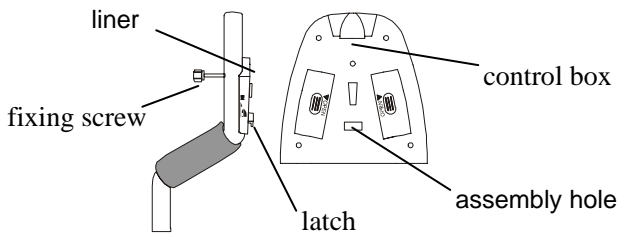
PREPARATION

ASSEMBLING THE DETECTOR

Assembling your detector is easy and requires no special tools. Just follow these steps:



1. Insert the latch on the liner into the assembly hole on the bottom of the control box. Then slightly push the control box in the direction of IN on the handle to fix the latch in place. Tighten the fixing screw properly.



2. Unscrew the knobs on the search coil, then remove the knobs and the connector. Insert the stem and align the holes on the search coil bracket and the stem. Push the connector through the holes, then replace and tighten the knobs.
3. Wind the search coil cable around the stem and insert its plug into the relevant jack.

Caution:

- The search coil's plug fits into the jack only one way. Do not force the plug or you could damage it.
- Don't pull the cable if you want to pull out the plug from the jack.

4. Rotate the stem's lock nut clockwise to loosen it.

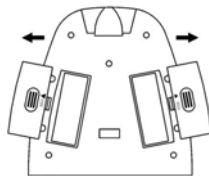
5. Stand and stretch your arm, holding the metal detector to make the search coil above the ground for about 1 to 5 cm. Rotate the stem's lock nut counterclockwise to tighten it.

Caution: Don't pull the aluminum stem totally out. Be aware of there is a plastic ring, whose smaller rim should be upward when being assembled.



INSTALLING THE BATTERIES

1. Check the power switch on the front panel to make sure it is in the "OFF" position.
2. Slide the left battery cover off in the direction of the arrow.
3. Place a 9V battery into the battery compartment matching the polarity symbols (+ and -) marked inside and reinstall the left battery cover.
4. Slide the right battery cover off in the direction of the arrow.
5. Place a 9V battery into the battery compartment matching the polarity symbols (+ and -) marked inside and reinstall the right battery cover.



Caution:

- If you don't plan to use the unit for a week or more, remove the batteries.

Batteries can leak chemicals that can destroy electronic parts.

Warning:

- Dispose old batteries promptly and properly. Never bury or burn them.

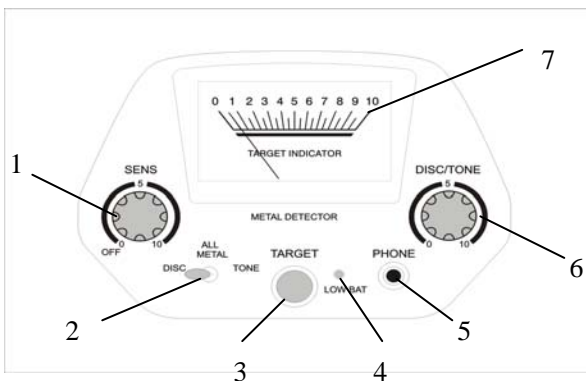
USING HEADPHONES

1. Insert the stereo headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker is disconnected.
2. The unit does not have volume control. So it's better to use stereo headphone with volume control. Set the volume to desired level.

Listening Safely

- To protect your hearing, set the volume to the lowest setting before you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high volume listening can lead to permanent hearing loss.
- Do not wear headphones while operating your detector near high-traffic areas. Pay attention to traffic safety.

A QUICK LOOK AT THE DETECTOR

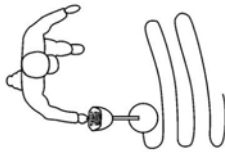


1. SENS--- sensitivity control and also used as power switch.
Fully counter-clockwise rotate the switch to OFF to turn off the power. Rotate it clockwise away from OFF to turn on the power. When you rotate the SENS from 0 to 10, the sensitivity is gradually increased. 0 is the lowest position for SENS; while 10 is the highest position. In general case, user can set the SENS to a high position. But in mineralized area, or area with electrical interference, it's better to lower the SENS properly.
2. MODE SWITCH
 - DISC--- in this mode, the unit comes with auto ground balance. The mode DISC/TONE can facilitate you to search for and discriminate the target type based on the long or short tone for different metal target.
 - ALL METAL----to search for all kinds of metal object. In this mode, the unit comes with auto ground balance, but without discrimination ability.
 - TONE---works with DISC/TONE. Discriminates different metal types with two different tones (high or low).
3. TARGET---to pinpoint the target. Press this button to lower the sensitivity automatically and to locate the target.
4. LOW BAT---after long time of operation, the battery voltage will become low. When LOW BAT indicator lights, user has to replace the battery.
5. PHONE-- Insert the stereo headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker is disconnected.
6. DISC/TONE—discrimination control. You can rotate the control clockwise from 0 to 10 to discriminate the different metal type. DISC will discriminate the metal type with different tones, such as long tone, short tone or without tone. But in TONE mode, unit will discriminate the metal type with high or low tones.
7. VIEW METER—when the metal target is found, the meter pointer will swings to the right.

OPERATION

Your 1020 has four operation modes: DISC, TONE, ALL METAL and TARGET. DISC, TONE and ALL METAL are motion modes. You have to move the coil to search for target. While TARGET is a non-motion mode.

When searching, generally set operation mode to ALL METAL and SENS to less 10. Sweep your search coil as following picture, move the search coil right and left in an arc line. For not missing any target, it is better to keep the distance from search coil to the ground about 1 – 5cm (closer to the earth for smaller target) and the distance between two neighboring arcs is about 10 – 15cm.



If there is a sound of “du-du” during moving, it indicates that there is a metal target in the sound area. In this case, you can use TARGET to pin-point the target. Then use DISC or TONE modes to determine whether the target is worth digging out. The followings are the four operation modes in detail.

1. **ALL METAL**-- a general searching mode. In this mode, the unit will respond with a “di-di” tone to all metal. But in this mode, unit can’t discriminate metal type.
2. **TARGET**—in ALL METAL mode, when you find metal object, you can press TARGET to pin-point the target. Hold the search coil 50cm or more away from the ground. Press and hold down the TARGET button. Sweep the search coil over the sound area and release the button when you hear a sound of “di”. After about 1~2 seconds, hold down the red button again, the “di” sound disappears. Closer the search coil to the ground and you’ll hear the sound

again. Repeat the above steps until you find the target. After you find the target, set mode to DISC or TONE to determine which kind of metal the target is.

3. **DISC**—in this mode, unit discriminates the metal type with different tones, say short, long or silence. Set the DISC mode switch to “0”. Slowly rotate the control clockwise to high position to reject objects you don’t want. At different DISC position, unit can reject different undesired objects.

When DISC/TONE is set to 0, unit will respond to any metal object with a long tone; As the control is rotated clockwise, the unit will sound a short tone, or even be silent to ferrous metal objects. This means the ferrous metal is rejected. Further rotate the control clockwise. Nickel, zinc, and copper will be rejected. When the control is set to 10 position, most metal objects are rejected, except silver. At 10 position, unit will respond with “du” tone to silver.

4. **TONE**—in this mode, unit discriminates different metal objects with high or low tone. For object to be rejected, it sounds a low tone which is different from in DISC mode. When DISC/TONE is set to 0, it sounds a high tone to any metal. But as it is rotated to high position, it sounds a low tone to ferrous metal, nickel, zinc, or copper. But it still sounds a high tone to silver.

To have a better identification, user has to practice more.

5. **Notes:**

1. If there is interference from similar metal detectors in your searching area, you can lower the sensitivity or change the current searching area.
2. If there is interference from other instruments or electrical cable or TV or radio in your searching area, you can lower the sensitivity or change the current searching area.
3. When searching in highly mineralized area, the unit will sound even if there’s no metal. In this case, you can lower the sensitivity and set discrimination to high position as well as increase the height between the search coil and the ground until the false signal disappears. As to the position of “DISC”, you have to put a metal sample in highly mineralized earth or wet sand for testing before setting it.

4. When searching in trash area, it's better to set the "DISC" to 5 position, so that the unit can reject most of invaluable metals such as nails and small trashy iron.
5. Move away any metal digging tool when searching.
6. In "TARGET" mode, the unit can detect any type of metal. So it is very likely to meet interference, if you search for small target near a large metal. In this case, you can remove the large metal away or abandon this searching area.
7. Sensitivity level is generally in contradiction with that of the discrimination. The higher the sensitivity level is, the worse discrimination will be. But you can lower the sensitivity to have better discrimination.
8. You can move the search coil horizontally and vertically and make a cross at the sound point. The center of the cross is the location of the target.

CARE AND MAINTENANCE

Your 1020 metal detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector so you can enjoy it for years.



Handle the detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the detector to work improperly.



Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the cases of the detector.



Keep the detector away from dust and dirt, which can cause premature wear of parts.



Wipe the detector with a damp cloth occasionally to keep

it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the detector.

