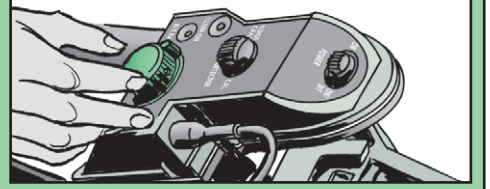
AN/PSS-14 Mine Detector...

Better Detecting with PM

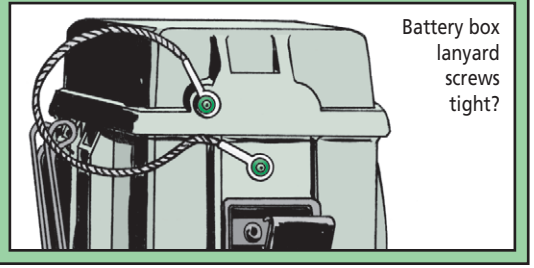
Before PMCS

Check the control grip for missing or loose screws and the grip indicators and controls for damage. Feel the GPR sensitivity knob on the control grip for looseness. Over time, the knob sometimes works loose and can fall off. Your support can tighten the knob's set screw.

Feel sensitivity knob for looseness



Check that the lanyard screws for the battery box and its lid are in place and secure. If screws are missing or loose, the lanyard can come off. No lanyard often means the lid will soon go missing. Support can replace screws.

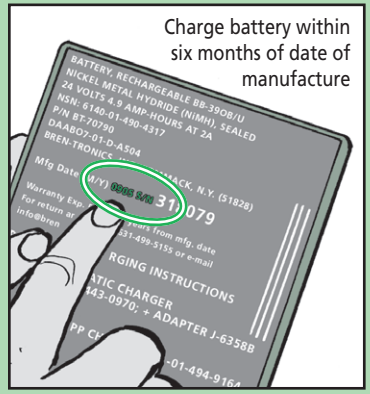


Battery Bits

Remember new BB-390B/U rechargeable batteries, NSN 6140-01-490-4317, must be charged within six months of their manufacture date, which is shown on the bottom of the battery. If you wait longer to charge it, the battery may not work.

But before you charge any battery, you must first completely discharge it. Otherwise, the gas gauge will give a false reading. The battery develops a memory, which prevents the visual indicator from indicating a full charge. The battery won't power the mine detector as long as it should.

Charge battery within six months of date of manufacture

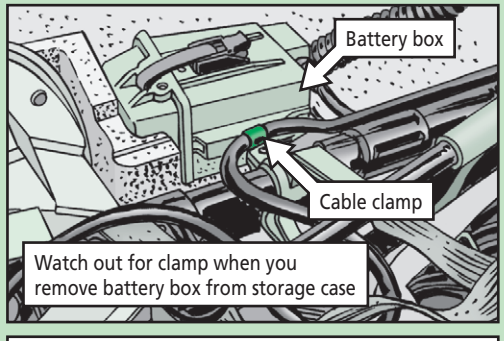


The best way to discharge the battery is with a discharger, NSN 6130-01-490-4310. The discharger doesn't come with the mine detector–you must order it separately. It generally takes an hour to fully discharge a battery.

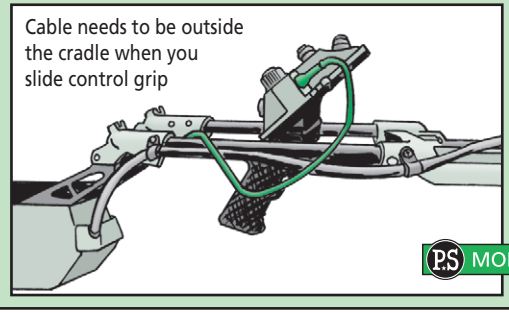
Assembly

When you remove the battery box from the storage case, make sure it clears the clamp for the search head cable. If you bang the box against the clamp, you'll damage the clamp. Your support can replace the clamp. If the clamp is too damaged, the detector is NMC. Watch out for the clamp when you're putting the battery box back in the storage case, too.

When you slide the control grip forward during assembly, make sure the cable to the controls is outside the cradle. If it's not, the cable will be pinched, which can tear its covering. That can lead to shorts and poor detecting.



Cable needs to be outside the cradle when you slide control grip



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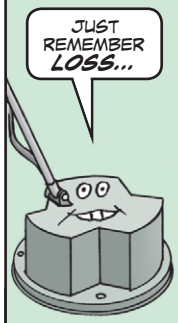
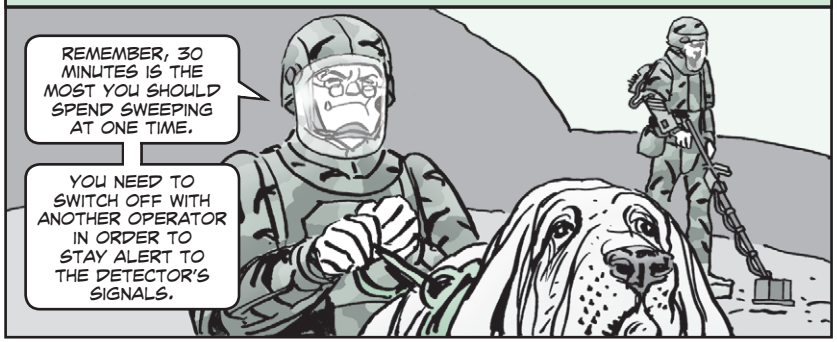
Operation



- **L**ane coverage: Make sure the search head's sweet spot (the area marked in yellow) completely covers the lane of your sweep.
- **O**perator stance: Your feet should be shoulder-width apart and you should stand straight with your back aligned directly over your legs.
- **S**earch head positioning: Keep the search head parallel to the surface you're sweeping and no more than two inches off the ground.
- **S**weep speed: Sweep between 1 to 3.6 feet per second. If you sweep slower than that, the mine detector can develop faults. If you sweep faster, it might not pick up mines.

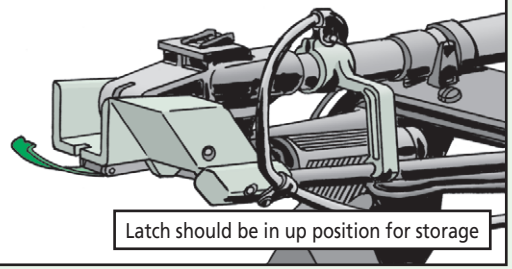


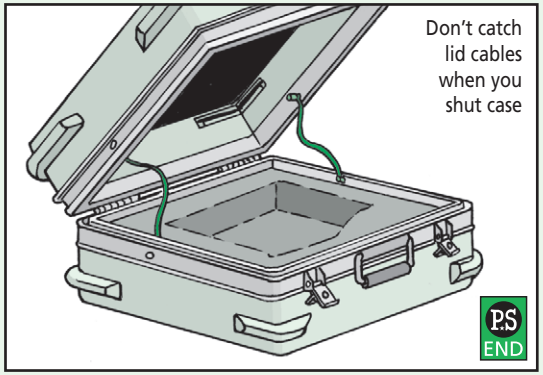
Storage

When you disassemble the detector, ensure the securing latch is up. If you put the detector in the case with the latch down, the latch will be bent and then it won't stay in the operating position.

Make sure the storage case's rubber seal is in good shape. If it's torn or eaten up with dry rot, the case won't seal out water and dirt.

When you shut the case, be careful not to catch the lid cables between the lid and the case. That can damage the cables, which keep the lid from banging all the way back.


Latch should be in up position for storage


Don't catch lid cables when you shut case

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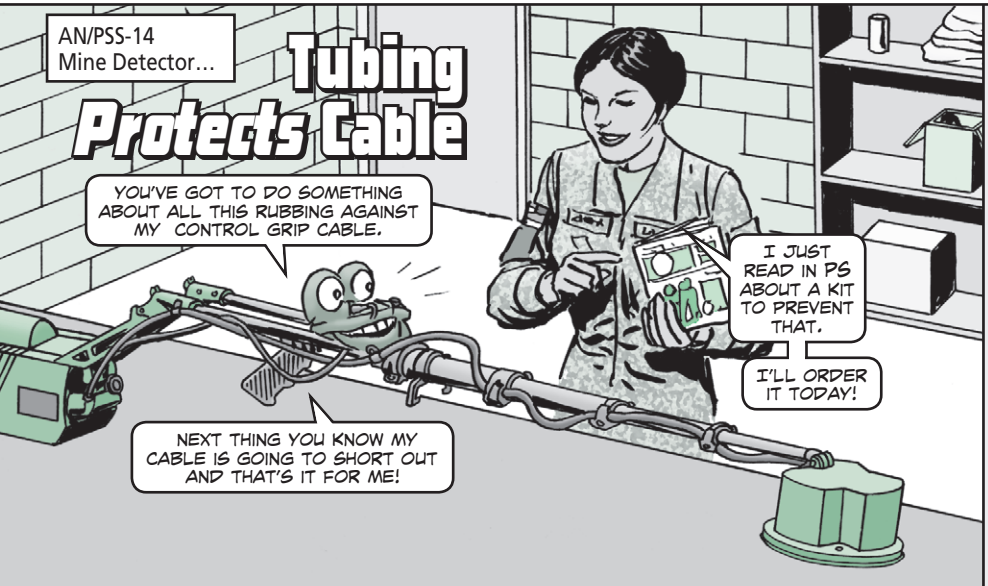
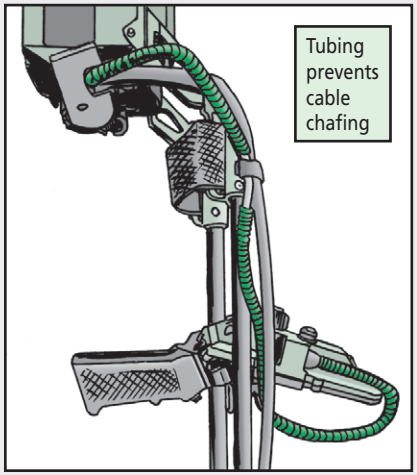


Sometimes the control grip cable for the AN/PSS-14 mine detector catches and rubs on body armor and other equipment, particularly for left-handed users.

That chafing can lead to shorting in the cable, which puts your detector out of commission.

Now you can protect the control grip cable with a kit, NSN 5999-01-578-0840, that brings together two lengths of corrugated tubing. The kit's directions show how to slip the tubing over the cable to shield and protect it.

Order a kit for every AN/PSS-14 in your unit so that none of your detectors suffer cable chafing.


Tubing prevents cable chafing