

TS80A/TS82

**BODY SCANNER
METAL DETECTOR**

OWNERS MANUAL

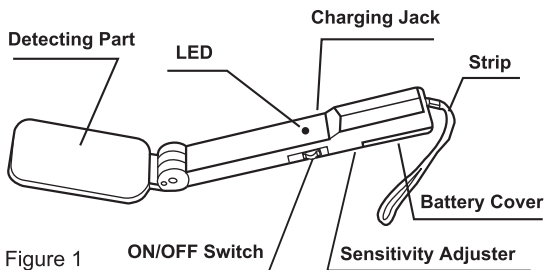


GENERAL DESCRIPTION

Please read and understand this manual before using the detector. Always test the detector for proper operation before use. The Body Scanner/Metal Detector is ideal for using at airports, industrial sites, government buildings, schools, hospitals, conferences, nightclubs, sport events, and anywhere you need security. It is sensitive enough to detect a metal object whose size is the same as a 25 cent coin. When it detects metal, it will sound and the LED will light.

INSTRUCTION

Illustrations in this manual use TS82, but they also apply to TS80A. The difference between TS82 and TS80A exists only in the detecting part's shape.



INSTALLING BATTERY

The Body Scanner/Metal Detector requires one 9V (6F22 or equivalent) battery for power. We recommend using an alkaline battery. You can also use a rechargeable battery.

Follow these steps to install the battery:

1. Remove the battery cover.
2. Remove the exhausted battery carefully.
3. Connect a new battery (9V, 6F22 or equivalent) to the battery connector and place it in the battery compartment.
4. Reinstall the battery cover.
5. If the LED lights continuously and the detector sounds continuously when the detector is far away from any metallic object, the battery is low and should be replaced immediately. If you are using a rechargeable battery, you should charge it



Warning

Do not attempt to charge any alkaline or other non-rechargeable battery, otherwise they may explode.

CHARGING A RECHARGEABLE BATTERY

1. Set the ON/OFF switch to the " OFF " position, and use the method described in the "**INSTALLING BATTERY**" section to install the rechargeable battery.
2. Insert the charger's output plug into the detector's Charging jack. Then connect the charger to a standard AC outlet.
3. Charge the rechargeable battery for about 14 to 16 hours.
4. Disconnect the charger from the AC outlet first. Then Disconnect the charger from the detector.

Note:

You must use a special charger. Using a charger that does not fit the detector may damage the detector or the charger itself.

The charger must meet the following requirements:

1. It can provide 9 ~ 12V dc voltage, and at least 20mA current.
2. Its output plug's central terminal is positive.
3. Its output plug fits the detector.

At the end of battery useful life, it must be recycled or disposed of properly.

OPERATION INSTRUCTION

Tip: Setting the ON/OFF Switch to " ON " position turns on the detector, setting the switch to " OFF " position turns off the detector. When the detector is just turned on or turned off, it may sound one or two beeps, this is normal.

1. Turn on the detector.
2. Hold the handle and move the detecting part to the area to be detected. When the detector detects a metallic object, it will sound and the LED will light. Move the detecting part around the suspected area to confirm the detection.
3. To preserve the battery life, set the ON/OFF switch in "OFF" position when you finish the detection.

Note:

1. While you use the detector to detect metallic object, you should move it smoothly.
2. Before you use the detector, verify its operation by detecting a known metallic object (such as a coin).

ADJUSTING THE SENSITIVITY

The detector has been set to the optimum sensitivity level for most security scanning applications. You can adjust the detector's sensitivity for special applications, which require higher or lower sensitivity.

1. Turn on the detector.
2. Refer to Figure 2, locate the Sensitivity Adjuster.
3. Prepare a suitable metallic test object.
4. Gently place the tip of the supplied screwdriver onto the Sensitivity Adjuster.

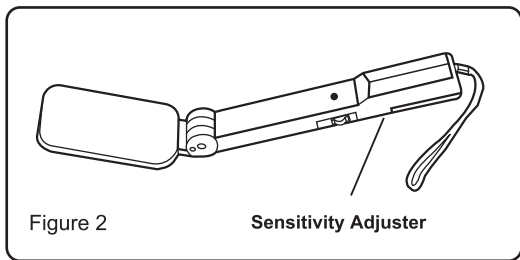
Turn the screwdriver slowly until its tip fits the slot of the Sensitivity Adjuster.

Adjust the Sensitivity Adjuster for the desired sensitivity. (Turning it clockwise increases the sensitivity, turning it anticlockwise decreases the sensitivity. If the sensitivity is set too high, the detector will give alarm wrongly and you should decrease the sensitivity appropriately.).

Each time you finish a sensitivity adjustment, move the detecting part to the test object to verify the detector's sensitivity. If the detector does not give alarm when moved to the test object, adjust the Sensitivity Adjuster again. Keep trying until the detector can give alarm at a desired distance from the test object when you move the detecting part to the object.

Note: The more you turn the Sensitivity Adjuster, the more the sensitivity changes.

5. It is rare that the detector's sensitivity will increase or decrease when the environment temperature changes too much. If the sensitivity change happens, the detector may give alarm wrongly just after you turn on it, or it can not detect normally. In this situation, you should adjust the detector's sensitivity following the steps mentioned above.



MAINTENANCE

The detector is an example of superior design and craftsmanship. The following suggestions will help you care for the detector so that you can use it for years.

1. Keep the detector dry. If it gets wet, wipe it dry immediately.
2. Handle the detector gently and carefully. Dropping it can damage the circuit or the case, and may result in misoperation.
3. Do not expose the detector to extreme temperatures as these can shorten its life.
4. Clean the detector with a damp cloth occasionally. Do not use harsh chemical, abrasive or solvent to clean the detector.
5. Do not modify (or tamper with) the detector's internal parts or circuit.

SPECIFICATION

Sensitivity	A 25 cent coin (USD)	60mm
	Iron pipe of Ø20mm	100mm
Operation Environment		-10°C ~ +50°C, < 80%RH
Quiescent Operating Current		< 6mA
Battery		9V, 6F22 or equivalent
Operating Frequency		about 28kHz
Tuning		Automatic
Alarm		LED light and sound
Weight		about 230g (without battery)
Length	395mm (in use)	
	260mm (in storage)	

ACCESSORIES

Manual : 1 piece

Screwdriver : 1 piece (for sensitivity adjustment)

Charger : 1 piece (optional)

Rechargeable Battery: 1 piece (optional)

Note: Charger and rechargeable battery are optional accessories.

NOTE

1. This manual is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The contents of this manual can not be used as the reason to use the detector for any special application.

DISPOSAL OF THIS ARTICLE

Dear Customer,

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled. Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.



