

Discovery
EXPEDITION™

SELF-POWERED AM / FM / SW /
NOAA WEATHER RADIO

D103X



INSTRUCTION MANUAL

IMPORTANT SAFETY INSTRUCTIONS

When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. However, improper use can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before installation and use, and keep these instructions handy for future reference. Take special note of all warnings listed in these instructions and on the unit.

1. Read these instructions All the safety and operating instructions should be read before the appliance is operated.
2. Keep these instructions The safety and operating instructions should be kept for future reference.
3. Heed all warnings All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions All operation and use instructions should be followed.
5. Do not use this apparatus near water The appliance should not be used near water; for example, near a bath tub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Clean only with dry cloth The appliance should be cleaned only as recommended by the manufacturer.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments / accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
10. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
11. Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance. Do not over load wall outlet.
12. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
13. Do not attempt to dismantle, open or repair this product yourself. If a fault occurs, seek advice from your local qualified service technician or contact the distributor via the telephone number at the back of this instruction manual.
14. Caution marking and nameplate are located on bottom of product.

COMPLIANCE WITH FCC REGULATIONS

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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SPECIAL NOTE

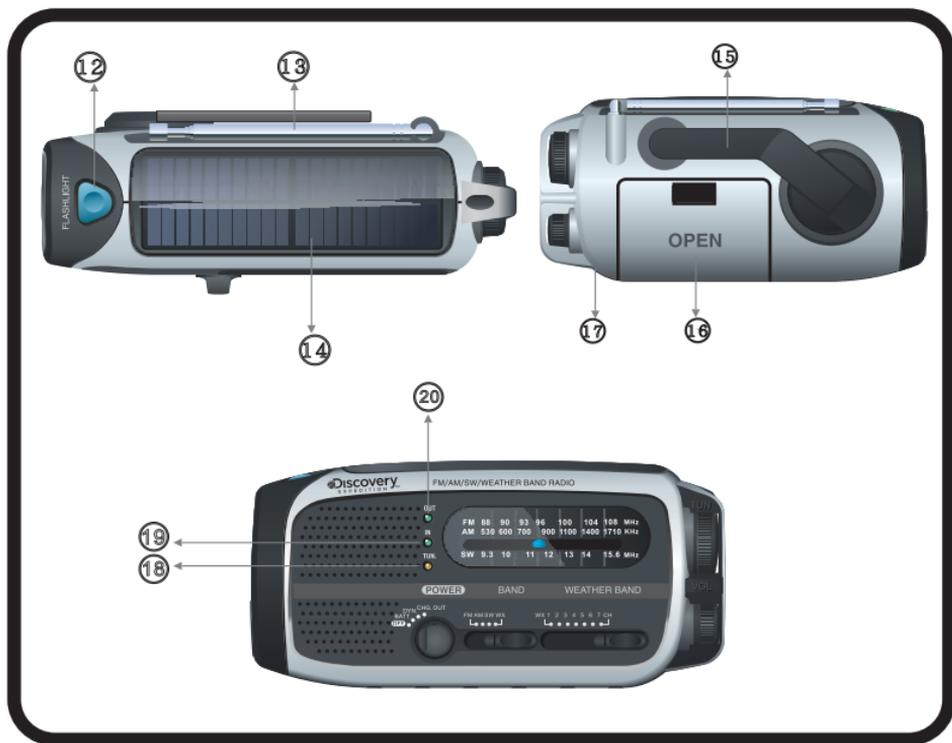
To prevent any scratching or damage to your furniture, we strongly recommend that you purchase small self-adhesive felt pads, available at hardware stores and home improvement centers everywhere, and apply these pads to the bottom of the unit before you place the product on any fine wooden furniture.

LOCATION OF CONTROLS

1. Speaker
2. Power Source Selector
3. FM/AM/SW/WX Band
4. Weather Channel Switch
5. Dial Pointer
6. Tuning Knob
7. Volume Knob
8. Flashlight
9. Mini USB Jack
10. USB Jack
11. Earbuds Jack



12. Flashlight Button
13. Telescopic Antenna
14. Solar Batteries
15. Hand Crank
16. Battery Compartment
17. Strap Hole
18. Tuning Indicator
19. Battery Charging Indicator
20. Charging External Device Indicator



POWER SOURCE

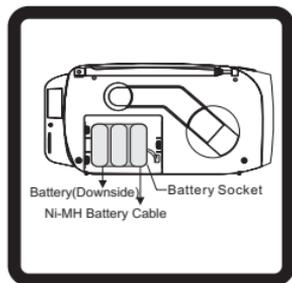
This unit operates using DYNAMO power (manual charge by cranking), or battery power
3 x “AAA” (UM-4) batteries (not included) or computer USB
DC 5V power.

A. “DYNAMO” POWER OPERATION

1. A DC 3.6V rechargeable battery is included with D103X.
When first time using the unit, open the battery compartment
and plug the rechargeable battery into the socket as shown.



Power Switch



2. Replace the Battery Door.

3. Set the Power Source Selector to the “OFF” position.

4. Lift the Crank Handle outward until it is fully extended.

Rotate the Crank, the CHARGING Indicator
will light.



Ni-MH Battery Safety Instructions. Do not burn or bury batteries.
Do not puncture or crush. Do not disassemble. Recycle Ni-MH batteries.
Do not dispose of in the trash. If the electrolyte in the cells should get on your skin,
thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water.
Immediately seek medical attention. Use only chargers rated for Ni-MH cells.
Be sure the charger's voltage and current settings are correct for the battery
pack being charged. Charge batteries on a fireproof surface away from flammable
items or liquids. Batteries should NEVER be left unattended while charging.
Only adults should charge the batteries.

Follow the manufacturer's instructions for charging the product and do not charge longer than recommended. Unplug the charger when the battery is charged.



Recycle Rechargeable Batteries

Recycle your old rechargeable batteries at one of the many collection sites in the U.S. and Canada. To find the site nearest you, visit www.call2recycle.org or call toll-free 1-877-2-RECYCLE.

B. BATTERY OPERATION

1. Remove the Battery Door on the back of the radio.
2. Following the polarity diagram shown in the battery compartment, insert 3 'AAA' (UM-4) batteries (Not included) and replace the battery door.
3. When batteries were installed, the power of the build-in rechargeable battery pack will be cut off after setting the Power Source Selector to "BATT." (DRY CELL Battery) position.

IMPORTANT: Be sure that the batteries are installed correctly.

Wrong polarity may damage the unit.

WARNING:

- Be sure that the batteries are installed correctly. Wrong polarity may damage the unit.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Only batteries of the same or equivalent type as recommend are to be used.
- If the unit is not to be used for an extended period of time, remove the battery. Any old or leaking battery can cause damage to the unit and may void the warranty.
- Do not dispose of batteries in fire, batteries may explode or leak.
- Do not try to recharge batteries not intended to be recharged; they can overheat, rupture and leak (Follow battery manufacturer's directions).

C. SOLAR POWER OPERATION

1. Set the Power Source Selector to "DYN" position.
2. Put the unit in the sunlight, make the solar panel of the unit is facing the sun. If the sunlight is enough strong, the power light "IN" will be on, the unit can work normally.

D. COMPUTER USB POWER OPERATION

1. Connect your computer's USB to the mini USB connector of the unit.
2. Turn on your computer and set the Power Source Selector to "DYN" position.

LISTEN TO THE RADIO

1. Set the Power Source Selector to "BATT." or "DYN." position to turn the unit on.
2. Set the Band Switch to select AM/FM/SW band.
3. Rotate the tuning Knob to select the desired radio station, the tuning LED will light if the station is properly tuned.
4. Adjust Volume Knob to obtain the desired sound level.
5. To tune the radio off, set the Power Source Selector to "OFF" position.

HINTS FOR BEST RECEPTION:

- The AM antenna is located inside the cabinet of the unit. If AM reception is weak, change the position of unit until the internal antenna picks up the strongest signal.
- To insure maximum SW/FM tuner reception, the Telescopic Antenna should be fully extended and rotated to obtain the best possible station reception.

LISTEN TO WEATHER CHANNEL

1. Set the Power Source Selector to "BATT." or "DYN." position to turn the unit on.
2. Set the Band Switch to "WX" position.
3. Set the Weather Channel Switch to select your local weather broadcasting.
4. Adjust Volume Knob to obtain the desired sound level.
5. To tune the radio off, set the Power Source Selector to "OFF" position.

Weather Band Channel Frequency Table

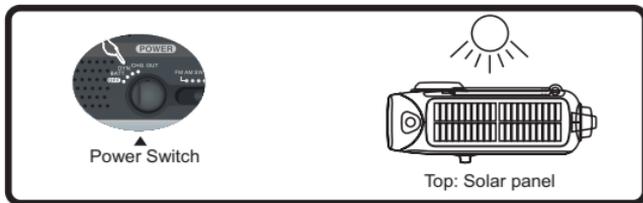
CHANNEL	FREQUENCY(MHZ)
CH1	162.400
CH2	162.425
CH3	162.450
CH4	162.475
CH5	162.500
CH6	162.525
CH7	162.550

CHARGING THE INTERNAL BATTERY

SOLAR CHARGING

1. Install Ni-MH batteries correctly.
2. Set the Power Source Selector to "OFF" position.
3. Put the unit in the sunlight, make the solar panel of the unit is irradiated by the sunlight. The unit will charge the rechargeable battery automatically.
4. While charging, the battery charging indicator will be on.

NOTE: The unit will also charge from indoor light and lamps but at a slower rate.



DYNAMO CHARGING

1. Install Ni-MH batteries correctly.
2. Set the Power Source Selector to "OFF" position.
3. Turning the hand crank, the built-in dynamo will start to generate electricity. The unit will charge the Ni-MH battery automatically.
4. While charging, the battery charging indicator will be on. The brightness of LED lights shows the charging intensity of the batter power

NOTE: While the intensity of the battery power is limited, you can turn the hand crank to generate electricity for emergency.

COMPUTER USB CHARGING

1. Install the Ni-MH batteries correctly.
2. Set the Power Source Selector to "OFF" position.
3. Use a USB to Mini USB cable (not included), plug one end with USB into the computer USB port. Plug the other end into Mini USB jack of the unit. It will start charge the Ni-MH battery automatically when your computer is ON.
4. While charging, the "IN" in front of the unit will be on.

NOTE: Before the first use, we recommend to charge the Ni-MH batteries for 4 hours the maximum. Please do not charge the battery longer than recommendation as it will shorten the battery life.

CHARGING THE EXTERNAL DEVICE

This unit has a USB which can charge your Cell phone or MP3 player if they have a built in Mini USB port to accept external charging power.

1. Use a USB to Mini USB cable(not included) to connect the unit and your external device which has a Mini USB port.
2. Plug the end with USB to USB Jack of the unit, plug the other end with Mini USB to Mini USB port of your external device.
3. Set the Power Source Selector to "CHG.OUT." Position.
4. Turn the hand crank to start charging your external device.

NOTE: Because of large variety of cell phones and different circuitry, not every cell phone or MP3 device with Mini USB can be charged in this way. Refer to your cell phone or MP3 player user manual before you charge them in this way.

USING THE FLASHLIGHT

1. Press the Flash Button on the left top of the unit, the flashlight will be on.
2. Press the Flash Button again to turn off the flashlight.

USE EARBUDS (NOT INCLUDED)

Inserting the plug of your earbuds into the earbuds jack will enable you to listen in private. When using earbuds, the speakers will be disconnected.

Read this Important Information before Using Your Earbuds

- 1.) Avoid extended play at very high volume as it may impair your hearing.
- 2.) If you experience ringing in your ears, reduce the volume or shut off the unit.
- 3.) Keep the volume at a reasonable level even if your headset is an open-air type designed to allow you to hear outside sounds. Please note that excessively high volume may still block outside sounds.

CARE AND MAINTENANCE

1. Do not subject the unit to excessive force, shock, dust or extreme temperature.
2. Do not tamper the internal components of the unit.
3. Clean your unit with a damp (never wet) cloth. Solvent or detergent should never be used.
4. Avoid leaving your unit in direct sunlight or in hot, humid or dusty places.
5. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.

CAUTION: Never allow any water or other liquids to get inside the unit while cleaning.

TROUBLESHOOTING GUIDE

If you experience difficulties in the use of this unit please check the following or call 1-800-777-5331 for Customer Service.

Symptom	Possible Cause	Solution
No/low sound when power on the radio	VOLUME Control is set to minimum. Station has not been tuned properly. FM reception is weak. AM reception is weak. Unit in Weather Alert Mode	Adjust the VOLUME control. Tune the station properly. Extend and rotate the FM antenna. Relocate the position of the unit. Select AM, FM or WB as desired
Power is not on	The built-in rechargeable battery pack is low The batteries are exhausted.	Recharge the built-in rechargeable battery pack. Replace all the batteries.

SPECIFICATION

Power requirement:

DC Input: 3 X AAA (UM-4) Batteries or
Built in DC 3.6V, 300mAH Ni-MH rechargeable battery or
DC 5V Computer USB Power.

Frequency Range

Radio Band	FM 88 ~ 108 MHz
	AM 520 - 1710 KHz
	SW 9.3 - 15.6 MHz
	WX CH1 – 7



LIMITED WARRANTY AND SERVICE

SPECTRA MERCHANDISING INTERNATIONAL, INC. warrants this unit to be free from defective materials or factory workmanship and will replace or repair this unit or any part thereof, except batteries, if it proves to be defective in normal use or service within 90 days from date of original purchase. Our obligation under this warranty is the repair or replacement of the defective unit or any part thereof, except batteries, when it is returned, transportation pre-paid, to SPECTRA. This warranty will be considered void if unit is tampered with, improperly serviced, or subject to misuse, negligence or accidental damage. There are no other express warranties other than those stated herein.

This warranty gives you specific legal rights, and you may also have other rights which varies from state to state. TO OBTAIN SERVICE please pack the unit carefully and send it prepaid by secured parcel post or UPS to SPECTRA at the address shown below. It would be helpful if you include a note explaining how the unit is defective.

IF THE UNIT IS RETURNED WITHIN THE WARRANTY PERIOD shown above, please include a proof of purchase (dated cash register receipt) so that we may establish your eligibility for warranty service and repair of the unit without cost.

IF THE UNIT IS OUTSIDE THE WARRANTY PERIOD, please include a check for \$25.00 to cover the cost of repair, handling and return postage.

SPECTRA MERCHANDISING INTERNATIONAL, INC.
4230 North Normandy Avenue,
Chicago, Illinois 60634, USA.
773-202-8408 or 1-800-777-5331

For quicker, easier product registration, you can also register your product warranty on-line:
@www.spectraintl.com/warranty.asp

The logo features a stylized globe icon on the left, composed of curved lines representing continents and oceans. To the right of the globe, the word "Discovery" is written in a large, bold, sans-serif font. Below "Discovery", the word "EXPEDITION" is written in a smaller, all-caps, spaced-out sans-serif font. A small trademark symbol (TM) is located at the end of the word "EXPEDITION".

Discovery

EXPEDITION™

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