

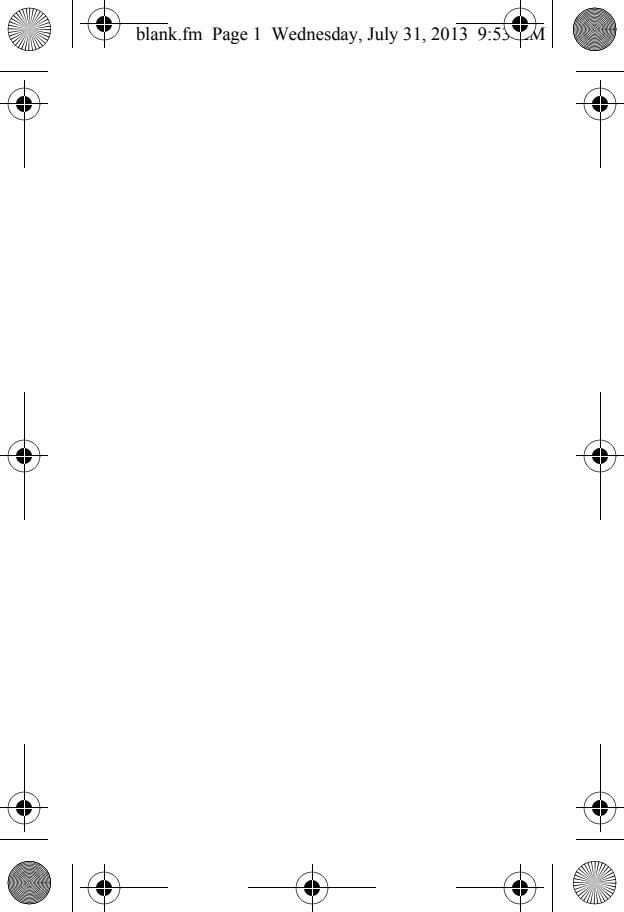
APX Radios AA Lithium/ AA Alkaline Replaceable Battery Pack



PMNN4439

Accessories





MOTOROLA APX RADIOS AA LITHIUM / AA ALKALINE REPLACEABLE BATTERY PACK

Foreword

The Motorola APX Radios AA Lithium/ AA Alkaline Replaceable Battery Pack is an accessory that allows Motorola APX radios to operate using standard AA batteries. This allows the radio to be operated in conditions where there is no available power supply to recharge the standard NiMH, or Li-Ion batteries, such as power outages and remote locations. Additionally, the battery pack can be used as an emergency backup to these standard batteries.

Attention:

This unit has been optimized for 1.5 V Lithium Primary AA Battery and 1.5 V Alkaline Primary Battery. The use of other battery chemistries is not recommended.

The use of 3.6 V Lithium Primary AA Battery could create permanent damage to the system. Additionally, the unit has been tested and optimized with the following battery manufacturer:
Energizer.

The Motorola APX Radios AA Lithium Replaceable Battery Pack is compatible with Motorola APX Radio.

Use only 12 pieces 1.5 V Lithium Primary AA Batteries or 12 pieces 1.5 V Alkaline Primary Batteries, mixed chemistry battery could cause system malfunction. Battery-Type-Selector switch should be toggled to the position according to the type of battery chemistry used.

Wrong switch position will cause incorrect Low Battery Alert Indication.

Use of this battery pack will automatically select the radio's low-power setting. For proper operation, the radio's low-power setting must be turned to 2 W or less.

The radio will indicate low battery alert when the AA batteries voltage level is low. The user can see the battery indicator blinking at the top right of the radio display. The moment the user sees a low battery alert, user is advised to change the AA batteries immediately.

IMPORTANT SAFETY INSTRUCTIONS

This document contains important safety and operating instructions. Please read these instructions carefully and save them for future reference.

OPERATIONAL SAFETY GUIDELINES



WARNING

1. Lithium batteries may explode if disposed of in fire.
2. Alkaline Primary batteries may explode if disposed of in fire.
3. DO NOT replace batteries in a potentially explosive atmosphere.
4. Contact sparking may occur.
5. To prevent injury or burns, DO NOT allow metal objects to contact or short circuit the battery terminals.

6. For your protection, store battery pack in a climate controlled location when not in use.
7. DO NOT store the battery pack with battery inserted. DO NOT attempt to charge the battery pack.
8. DO NOT expose battery pack with battery installed to salt water unless it is attached to a radio.
9. Battery pack alone is not submersible.

OPERATION INSTRUCTION

Installing the APX Clamshell Battery Pack To The Radio

1. Slide in the battery pack towards the radio chassis slot as shown below. Push the bottom of battery pack until both latches snap in place.

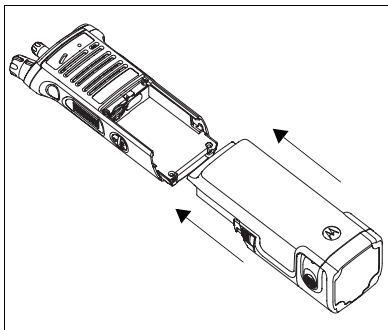


Figure 1: Slide towards the chassis

Removing the APX Clamshell Battery From The Radio

1. Push on the latch buttons on both sides as Figure 2. Then slide out the battery pack from the radio.

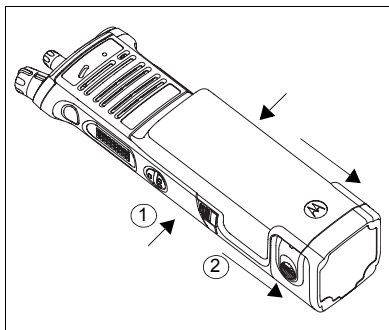


Figure 2: Push and slide out the battery

Removing the APX Clamshell Battery Tray From The Housing

1. Push on the push buttons on both sides as shown in Figure 3.

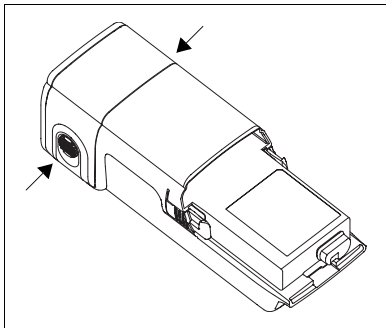


Figure 3: Push the push buttons

2. Slide up the C-clip as Figure 4.

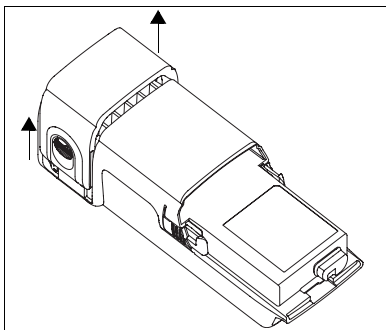


Figure 4: Slide up the C-clip

3. Hold on the Tray bottom cover and slide it out.

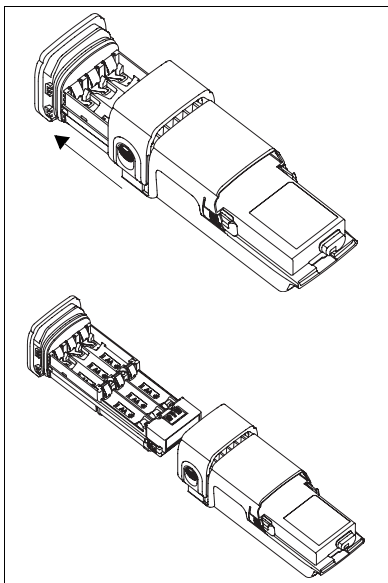


Figure 5: Hold tray button and slide

Inserting AA Batteries Into The Battery Tray

1. Insert the 6 new batteries in place following the markings on the battery tray for correct battery polarity. All batteries are inserted with the same orientation. Insert another 6 new batteries on the opposite side of the battery tray.

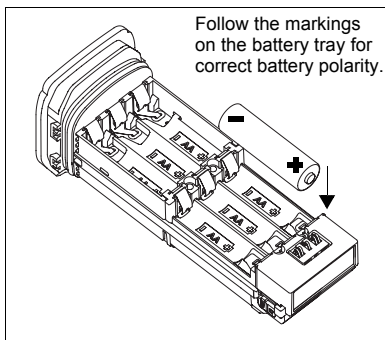


Figure 6: Insert batteries accordingly

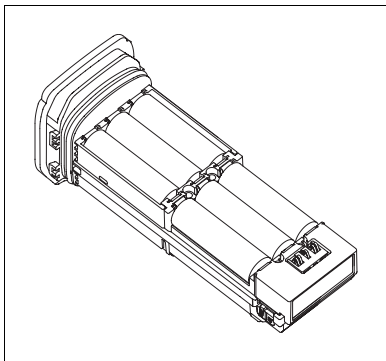


Figure 7: Place batteries with the same orientation



Caution

DO NOT mix new and used batteries in the same batch as this will adversely affect performance. **DO NOT** mix Lithium Primary batteries and Alkaline Primary batteries in the same batch as this will adversely affect performance.

Installing The Battery Tray To The Housing

1. Slide the battery tray into the housing.

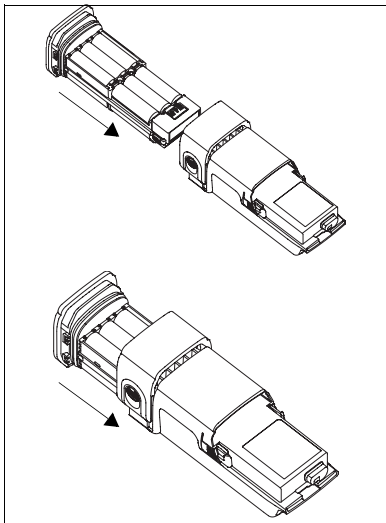


Figure 8: Slide into the housing

2. Push the C-clip in position until it snaps into the housing. A gentle “click” sound should be heard when the C-clip is fully latched in position.

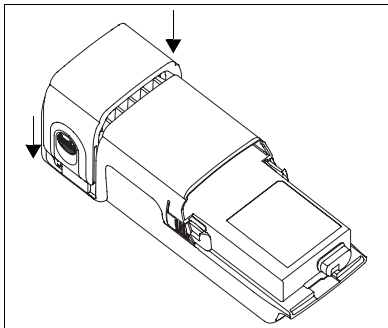


Figure 9: Push C-clip into the housing



Caution

Ensure that the Battery-Type - Selector switch is toggled to the correct position according to the type of battery being installed:
Li = Lithium Primary Battery
Alk = Alkaline Primary Battery
Wrong switch position will cause incorrect Low Battery Alert Indication.

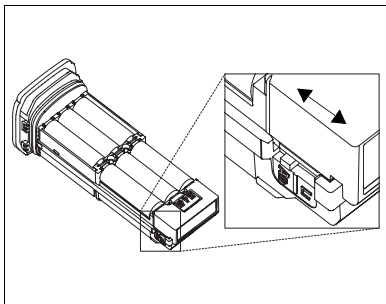


Figure 10: Toggle the selector switch to the correct position

BATTERY PACK MAINTENANCE

1. Periodically inspect and clean the battery contacts. This is recommended after each use.
2. Inspect for debris or foreign objects that could interfere with gasket and sealing surface.
3. Periodically clean gasket and sealing surface. This is recommended after each use.
4. If battery is exposed to salt water, mud or any other debris, it should be washed and dried before opening the battery tray.

BATTERY PACK TROUBLESHOOTING



WARNING

The battery pack is equipped with a thermal protection device that can trip if a foreign object is shorting across contacts. This device resets automatically shortly after the fault is removed. It is not possible to accurately measure battery pack voltage at the external radio contacts.

1. Ensure that all batteries are properly oriented and that there are no foreign objects in the battery pack.
2. Ensure that the battery-to-radio contacts are clean, dry and not damaged.
3. Ensure that the tray-to-battery contacts are clean, dry and not damaged.
4. Ensure that battery-type-selector-switch is toggled to position according to battery chemistry used.

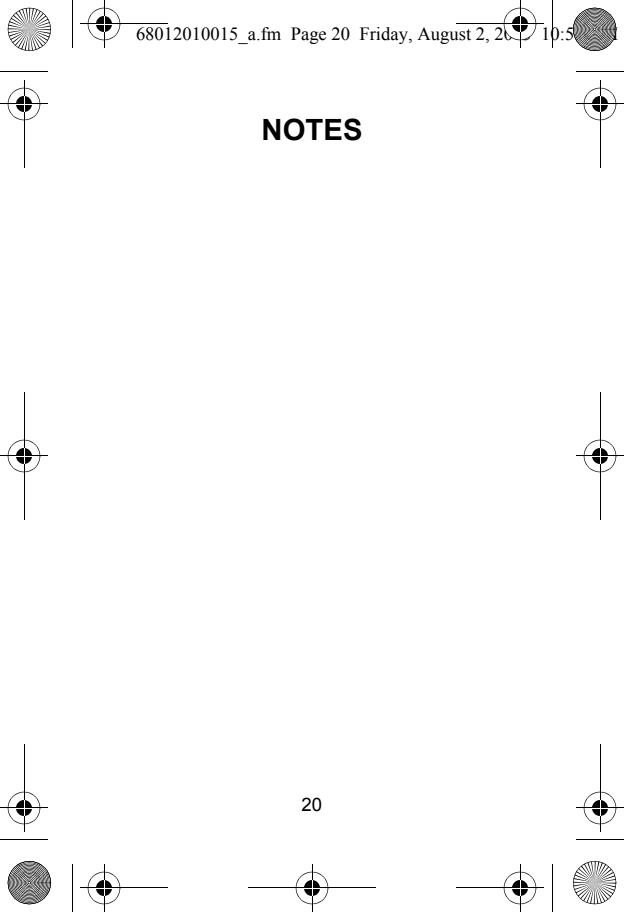
**WARNING**

5. Inspect for debris or foreign objects that could interfere with gasket and sealing surface.
6. No further troubleshooting should be performed. DO NOT attempt to disassemble the battery pack.

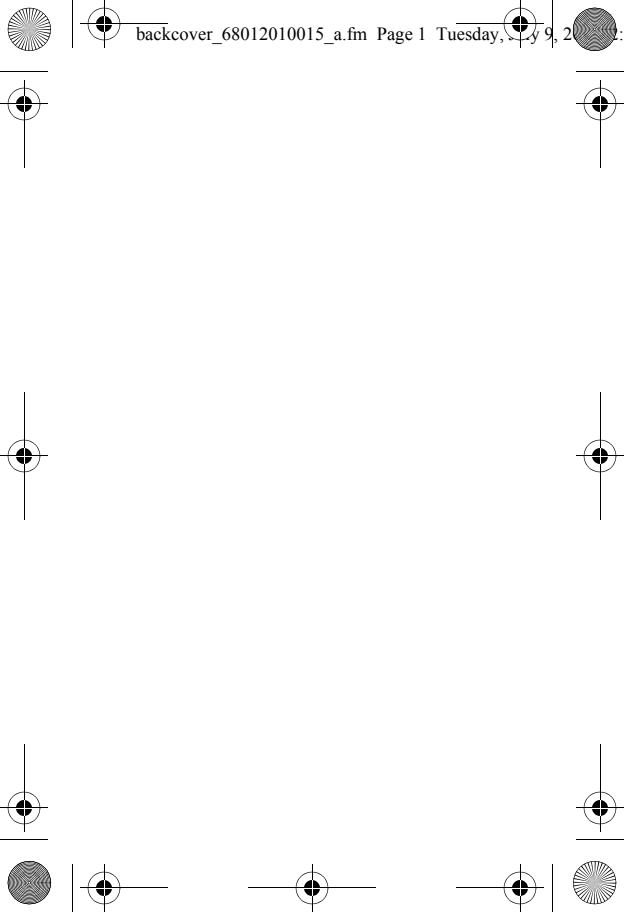
SPECIFICATION

Unit Capacity	12 AA Lithium Primary Batteries or 12 AA Alkaline Primary Batteries
Dimensions (L x W x D)	6.45" x 2.5" x 2.3" (163.8 mm x 63.6 mm x 58.2 mm)

Approximate Weight	Without Batteries	9.5 oz (270 g)
	With Lithium Primary Batteries	15.9 oz (450 g)
	With Alkaline Primary Batteries	19.4 oz (550 g)



NOTES





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