MOTOROLA SOLUTIONS

WM800 WIRELESS SOLUTIONS

Wireless RSM PMMN4156 /PMMN4158 Wireless RSM Battery PMNN4846_ Dual-Unit Charger Base PMPN4652_ **User Leaflet**



MN009955A01-AA

For other WM800 manuals, refer to our Learning eXperience Portal: https://learning.motorolasolutions.com



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Printed in



Nom de modèle: WM800

sont conformes aux réglementations suivantes: Partie 15, sous-partie B, section 15.107(a), 15.107(d) et section 15.109(a) des règlements de la FCC

Appareil numérique de Classe B

En tant que périphérique d'ordinateur personnel, cet appareil est conforme aux stipulations de la partie 15 des règlements de la FCC. Cet appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Son utilisation est assujettie aux deux conditions suivantes

- 1. Cet appareil ne doit pas causer d'interférence nuisible.
- Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable

AVIS: Cet équipement a fait l'objet de tests et a été déclaré conforme aux limites établies pour un appareil numérique de classe B, conformément à la section 15 des règlements de la FCC. Ces limites sont fixées afin d'offrir une protection suffisante contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé ou utilisé conformément aux instructions, il peut provoquer un brouillage nuisible aux communications radio Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière

Si cet appareil cause une interférence nuisible à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en allumant l'appareil, vous êtes encouragé à remédier à la situation en prenant une ou plusieurs des

Réorienter ou déplacer l'antenne réceptrice.

Operating Instructions

- Transmit no more than 50% of the time. To transmit (talk), press the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting more than 50% of the time may cause RF exposure compliance requirements to be exceeded.
- Hold the microphone in a vertical position in front of the face with the microphone at least one inch (2.5 centimeters) away from the nose or lips.
- Body Worn Operation. When microphone is worn on the body, always use Motorola Solutions-approved clip for this product. Using approved body-worn accessories is important because the use of non-Motorola Solutionsapproved accessories may result in exposure levels, which exceed the FCC occupational/controlled environment RF exposure limits.
- Use only Motorola Solutions-approved supplied or replacement batteries. Use of non-Motorola Solutions-approved batteries may exceed the applicable RF exposure guidelines (iEEE, ICNIRP, or FCC).
- For a list of Motorola Solutions approved accessories please refer to your user manual or visit www.motorolasolutions.com.

Accessory Manager App Introduction

Download and Install Accessory Manager application for future software upgrades and new feature releases

You are recommended to install Accessory Manager to upgrade accessory firmware to the latest version for the first time before use.



Notice to Users (FCC and Industry Canada)

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired opera-

Augmenter la distance entre l'équipement et le récepteur

Consulter un revendeur ou un technicien de radio ou de télévision chevronné pour obtenir de l'aide.

Before using this product, read this booklet which contains RF

For information on product details, user manuals, and approved

The WM800 RSM, when attached to the radio, is restricted to

National and international regulations require manufacturers to

comply with the RF energy exposure limits for portable two-way

radios before they can be marketed. Your Motorola Solutions

two-way radio is designed, manufactured, and tested to comply with all applicable national and international regulations for

human exposure to radio frequency electromagnetic energy.

When two-way radios are used as a consequence of employment, applicable regulations may require users to be

RF Energy Exposure Awareness and Control Information and Operational Instructions for Occupational Use

controlled conditions where users are aware of their exposure and can exercise control over their exposure to meet the

fully aware of and able to control their exposure to meet

NOTE: This device is intended for use in occupational/

energy awareness information and operating instructions.

accessories, refer to www.motorolasolutions.com.

occupational use only to satisfy RF energy exposure

Compliance with RF Exposure Standards

· Brancher l'appareil dans une autre prise sur un circuit dif-

férent de celui du récepteur.

Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

Supplier's Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)



Responsible Party

Name: Motorola Solutions, Inc. Address: 2000 Progress Pkwy, Schaumburg, IL 60196, U.S.A. Phone Number: 1-800-927-2744

Hereby declares that the product: Model Name: WM800

conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a).

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, includ-

ing interference that may cause undesired operation. Notice: 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.

requirements in national and international regulations. This

radio device is **not** authorized for general population, consumer

For more information on what RF energy exposure is, and how

to control your exposure to ensure compliance with established

https://www.who.int/health-topics/electromagnetic-fields/http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html

http://responsibility.motorolasolutions.com/index.php/ourap

Information de sensibilisation et de gestion de l'exposition à l'énergie RF, et consignes relatives à l'utilisation professionnelle

Avis: Cet appareil a été conçu pour un usage professionnel

dans un environnement contrôlé, où les utilisateurs sont pleinement conscients de l'exposition à l'énergie RF à laquelle

ils sont soumis et peuvent exercer un contrôle sur cette

exposition afin de respecter les limites établies par les règlements nationaux et internationaux. Cet appareil radio

n'est pas autorisé pour l'utilisation par la population générale

RF exposure limits, consult the following websites:

For additional user training information on exposure

requirements, consult the following websites

https://learning.motorolasolutions.com/

https://www.fcc.gov/

https://www.osha.gov/

https://osha.europa.eu/en

proach/wirelesscommhealth/

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 or TV techni-

Avis aux utilisateurs (FCC et Industrie Canada)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence et à la partie 15 des règlements de la FCC :

- Cet appareil ne doit pas causer d'interférence nuisible
- · Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.
- · Toute modification effectuée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser cet appareil

Déclaration de conformité du fourmisseur

Règlement CFR 47 partie 2 section 2.1077(a) de la FCC



Partie responsable

Nom: Motorola Solutions, Inc.

Adresse: 2000 Progress Pkwy, Schaumburg, IL 60196,

Numéro de téléphone: 1-800-927-2744

Visitez les sites Web suivants pour obtenir plus de

respecter les limites

- https://www.osha.gov/

- https://osha.europa.eu/en
 https://www.who.int/health-topics/electromagnetic-fields/
- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html

Pour plus de renseignements sur la formation des utilisateurs relativement aux limites d'exposition, consultez les sites suivants:

- proach/wirelesscommhealth/

To control your exposure, and ensure compliance with the

exposure limits, always adhere to the following guidelines:

Do not remove any of the RF Exposure Labels if pres-

- ent from this device or its related accessories.
- fer it to other users.
- Do not use this device if the operational requirements described herein are not met

Acoustic Safety

occupational requirements.

Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the volume of the radio, the sooner your hearing will be affected. Hearing damage from loud noise is sometimes undetectable at first, and can have a cumulative effect. To protect your hearing:

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings. Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume. When using the radio without a headset or earpiece, do not
- place the radio's speaker directly against your ear. If you experience hearing discomfort, ringing in your ears, or speeches that are muffled, you should stop listening to your radio through your headset or earpiece, and have your

Medical Devices

If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this

Operational Warnings For Vehicle With Air Bags

et les consommateurs

The following explains the operational warnings:

The following explains the operational warnings:



 Refer to vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag wiring.

•DO NOT place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle

Batteries

Caution

Use only Motorola Solutions approved batteries.

- Risk of explosion if the battery is replaced by an incorrect
- tions charger
- Connect the charger/power supply to a nearby and easily
- Ingress Protection (IP) rating. Do not discard your battery into a fire.
- Charge your battery using the approved Motorola Solu-
- accessible power outlet. Use the battery in accordance with its water and/or dust

- Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- Do not allow conductive material such as jewelry, keys,
- or beaded chains to touch exposed battery terminals.
- Do not dispose of batteries with household waste.

Do Not Substitute Options or Accessories

The Motorola Solutions communications equipment certified as intrinsically safe by the approving agency (UL, CSA, CENELEC) is tested as a complete system which consists of the listed agency Approved portable, Approved battery, and Approved accessories or options, or both. This Approved portable and battery combination must be strictly observed. There must be no substitution of items, even if the substitute has been previously Approved with a different Motorola Solutions communications equipment unit. Approved

The Hazardous Location-Approved Label affixed to radio refers to the intrinsically safe classification of that radio product, and the approved batteries that can be used with

The manual part number referenced on the Hazardous Location-Approved Label identifies the approved Accessories and or options that can be used with that portable radio unit. Using a non-Motorola Solutions-Hazardous Location-Approved battery and/or accessory with the Motorola Solutions approved radio unit will void the Hazardous

Important Information

• Do not charge your accessory in temperature below 0 °C (32 °F) or above 45 °C (113 °F). Do not store your accessory in direct sunlight or where expected temperatures can exceed this range such as inside a parked car. Storing your fully charged accessory in high temperature

- conditions may permanently reduce the life of the battery. Battery life may temporarily shorten in low-temperature The Remote Speaker Microphone (RSM) should be stored
- between 20 °C (68 °F) and 30 °C (86 °F) to minimize battery permanent capacity loss. To prevent injury, do not disassemble, puncture, or crush the RSM because this action can cause the battery to
- Do not dispose the RSM into household waste Do not fill the audio jack and USB charging port with water. If water enters the audio jack and/or USB charging port, remove water by shaking the RSM. Always cover the audio jack and USB charging port with a dust cap when not in

Do not expose or throw the RSM into heat or fire

Battery Information Battery is shipped with a nominal charge below 30%.

short-circuit.

avoid depleting your battery completely.

To maximize your battery performance and lifespan,

To minimize permanent capacity loss, store the battery within the temperature range of 20 °C (68 °F) and 30 °C (86 °F).

Chargers Safety Information

hearing checked by your doctor.

Important Safety Information

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

Before using the battery charger, read all the instructions and cautionary markings on (1) the Dual-Unit Charger (2) the battery, and (3) on the Wireless Remote Speaker Microphone (WM800 RSM).



1. To reduce risk of injury, charge only the rechargeable Motorola Solutions authorized batteries listed in Table 1. Other batteries may explode, causing personal injury and damage 2. Use of accessories not recommended by

Motorola Solutions may result in risk of fire, electric shock, or injury. To reduce risk of damage to the electric plug and cord, pull

- by the plug rather than the cord when disconnecting the charger An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in risk of fire and electric shock. If an extension cord must
- be used, make sure that the cord size is 18 AWG for lengths of up to 100 ft (30.48 m), and 16 AWG for lengths up to 150 ft (45.72 m). To reduce risk of fire, electric shock, or injury, do not
- operate the charger if it has been broken or damaged in any way. Take it to a qualified Motorola Solutions service representative. Do not disassemble the charger – it is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electric shock or fire.

7. To reduce risk of electric shock, unplug the charger from the AC outlet before attempting any maintenance or

Note: 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/TV technician
 - **Table 1: Motorola Solutions Authorized Battery** Part Number Description PMNN4846 Wireless RSM Battery

Approved Accessories

This section provides the list of approved accessories to be used with your WM800 RSM.

Table 2: Approved Accessories

Part Number	Description
PMLN8120_	Rx-Only XL Clear Tube Earpiece, 3.5 mm Jack

Radio and Device Compatibility

Table 3: Radios Compatibility

Part Number Description

PNUW1100 APX NEXT

Firmware Upgrade

You can upgrade the WM800 RSM through the compatible radios. Refer to the radio user manuals for more information.

Alternatively, you can download and install the Accessory Manager application from the Google Play Store on your phone for future firmware upgrades and new feature

Radio Firmware Requirement

following software version and later:

APX NEXT Radios: R04.80.00

renseignements sur ce qu'est l'énergie RF et sur les moyens de contrôle à prendre afin de

établies en matière d'exposition aux radiofréquences: https://www.fcc.gov/

- http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html
- http://responsibility.motorolasolutions.com/index.php/ourap https://learning.motorolasolutions.com/
- relevant RF
- Attach these instructions to the device when you trans-
- Do not replace the battery in any area labeled "Hazardous Atmosphere"
- Do not dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.

configurations are listed by the Approving Agency (UL, CSA,

that system.

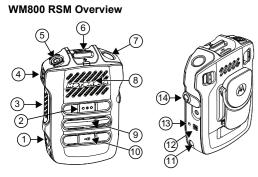
Location approval of that radio unit.

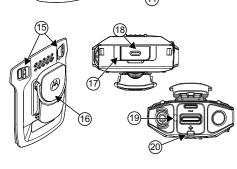
The WM800 RSM is compatible with the following radio:

WM800 RSM firmware upgrade is only compatible with the

- Accessory Manager: 1.0.15.

RF Exposure Compliance and Control Guidelines





ble 4: WM800 RSM Overview and Description			
No.		Description	
1		1-Dot Button	
2		3-Dot Button	
3	Push	n-To-Talk (PTT) button	
4		2-Dot Button	
5		Power Button	
6		Volume Toggle	
7	Emergency Button		
8	Microphone		
9	Speaker		
10	Task Light Button		
11	Charging Contact		
12	Near Field Communication (NFC) Tag		
13	Blue Dot		
14	Audio Jack		
15	Battery Latch		
16	Swivel Clip		
17		Task Light	
18		USB-C Jack	
19		Power Indicator	
20	Audio/Bluetooth Indicator		

WM800 RSM Feature Overview

Table 5: WM800 RSM Feature Overview and Description

	Feature	Functionality
	Power On/Off	Turn on or off the WM800 RSM by press- ing and holding the Power button for two seconds.
	Auto Power Off	Cancel auto powering off by pressing the Power button once.
	Sign of Life	 Check the RSM battery and connection status by pressing the Power button once. Power indicator blinking green twice when Battery at high level. Power indicator blinking amber twice when Battery at medium level. Audio/Bluetooth Indicator blinking blue twice when RSM is connected. Voice or Tone Prompt are available.
	Programmable Buttons	You can program 1-Dot, 2-Dot, and 3- Dot buttons to different functions. Refer to the radio or host device user manual for detail.
	Voice Controls	 You can use the Voice Assistant (ViQi) when the WM800 RSM is paired with a radio supporting ViQi. Activate by pressing and holding the 3-dot programmable button.
	Task Light	 Turn the Task Light on or off by pressing

the Task Light button for one second.

Table 5: WM800 RSM Feature Overview and Description

	100	Table 6. Whose Roll I catale Overview and Description		
. !		Feature	Functionality	
 - 	Volume Controls	 Adjust the volume level by pressing the + or - button. Ramp up or down the volume level by pressing and holding the + or - button. 		
 	 	Tone and Voice Prompt Selection	Select tone or voice prompt when the RSM is in pairing mode by pressing the 2-dot button. NOTE: This feature is only enabled when the RSM is not connected to any host device.	
	Clear Devices from Pairing List	Remove host devices from the WM800 RSM pairing list by pressing and holding the PTT and Power buttons simultane- ously.		
	Error Indication	Occurs in the event of any product error. The WM800 RSM Power and Audio/ Bluetooth Indicator is blinking red.		

Dual-unit Charger Overview





Table 6: Charger Overview and Description

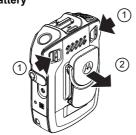
No.	Description
1	Charging Indicators Label
2	Charger Indicator for Battery
3	Battery charging pocket
4	RSM charging pocket
5	Battery Caution Label
6	Power supply input

Attaching the Battery



- Slot in the bottom side of the battery to the RSM battery
- Press firmly in the middle to ensure both latches snap in place and fully locked.

Detaching Battery

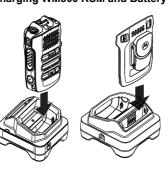


- Pinch the left and right latches.
- Pull out the clip to remove the battery

Attaching Secondary Audio Accessory



Charging WM800 RSM and Battery



Getting Started

Before you start, fully charge the WM800 RSM. **Table 7: Power Indication**

Power Indicator	Description
Blinking green for one second	Power On
Blinking green twice	Power Off
Blinking red twice	Power up error
	<u> </u>

Press the **Power** button once to get the battery status when the WM800 RSM is not charging Table 8: Battery Indication

Power Indicator	Description
Off	Battery is medium or high level. NOTE: Refer to Sign of Life feature in Table 5 for more information about the battery status.
Blinking red	Battery at low level. NOTE: Voice and Tone Prompt are announced every two minutes until the device starts charging.
Rapid blinking red	Battery at critical level. Charge the RSM immediately to prevent flat-battery. NOTE: Voice and Tone prompt are announced every 30 seconds until the device starts charging.

Table 9: Charging Indication

Power Indicator	Description
Solid red	Charging.
Blinking green	Charged up to 90% or more.
Solid green	Close to fully charged or fully charged.
Blinking amber	Battery is waiting to charge. (Either the battery voltage is too low or the battery temperature is too low or too high to allow charging. When this condition is corrected, the battery will automatically begin charging.)
Rapid blinking red	Charging error.

Table 10: Audio/Bluetooth Status

Audio/ Bluetooth Indicator	Description
Blinking blue	Pairing mode
Solid blue	Connecting Reconnecting Disconnected
Off	Connected NOTE: Refer to Sign of Life feature in Table 5 for more information about the connection status.

Recommended Wearing Positions



Recommended Wearing Positions: Using Tethering Accessory with Lanyard

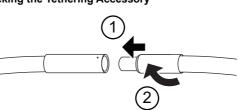




Recommended Wearing Positions: Using Tethering Accessory with Velcro and Lanyard



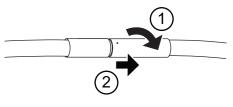
Locking the Tethering Accessory



1. Push in the clasp. 2. Twist the clasp to lock.

mode

Unlocking the Tethering Accessory



- 1. Twist the clasp to unlock.
- 2. Pull out the clasp.

Replacement Parts And Accessories

1	Table 11. Replacement Faits and Accessories		
ļ	Part Number	Description	
ı	PMMN4156_	Wireless RSM (without battery)	
1	PMNN4846_	Wireless RSM Battery	
	PMPN4653_	DUC with Power Supply United States Plug	
	PMKN4294_	USB-C Cable (1 m)	
ŀ	PMLN9067_	Tethering Kit Accessory (Pack of 10)	
	PMLN8312_	Low Profile Swivel Clip with D-Ring	
Т	DMI NO120	Rx-Only XL Clear Tube Earpiece, 3.5 mm	

Pairing Your WM800 RSM Through Bluetooth

While WM800 RSM is power off, press and hold the

Power button until you hear "Power On" followed by

Unpairing Your WM800 RSM

While WM800 RSM is power off, press and hold the Power button and PTT button. The blue LED blinks and a "Pairing Cleared" voice prompt from the WM800 RSM indicates that the paired device is deleted from the paired

If pairing is unsuccessful, the WM800 returns to pairing

NOTE: The WM800 RSM pairing mode times out in two

NOTES:

- Depending on the radio codeplug configuration and ways to pair the devices, the WM800 RSM paired device list is cleared when the WM800 RSM is turned off.
- Refer to the radio user manual for more details on the pairing programmable options.
- Always unpair the WM800 from the Bluetooth host and ensure that the paired device is removed from the paired

Warranty Exclusion

Motorola Solutions does not warrant the installation, maintenance or service of the Product, accessories, batteries, or parts. Motorola Solutions will not be responsible in any way for problems or damage caused by any ancillary equipment or peripherals (specific examples include, but are not limited to: batteries, chargers, adapters, and power supplies) not furnished or manufactured by Motorola Solutions, which is attached to or used in connection with the Product. When the Product is used in conjunction with ancillary or peripheral equipment not supplied by Motorola Solutions, Motorola Solutions does not warrant the operation of the Product/ peripheral combination and Motorola Solutions will not honor any warranty claim where the Product is used in such a combination and it is determined by Motorola Solutions that there is no fault with the Product. Upon open or dismantle the Product, warranty is immediately voided. Motorola Solutions specifically disclaim any responsibility for any damage in any way caused by improper installation by unauthorized person-

battery status and "Searching for Host" voice prompt, and the blue LED blinks during pairing mode.

From the compatible device, search and select "WM800_xxxx" from the Bluetooth list. NOTES:

- You hear the "Connected" voice prompt and Pairing tone plays when the devices successfully paired. "xxxx" denotes the last 4 bytes of alphanumeric MAC address of your WM800 RSM.
- If the pairing is unsuccessful, the WM800 RSM remains in pairing mode. You can repeat Step 2 to attempt pairing agair

NOTE: The WM800 RSM pairing mode times out in two min-

Pairing Your WM800 RSM Through Secure NFC (recommended for higher security level)

While WM800 RSM is power off, press and hold the Power button until you hear "Power On" followed by battery status and "Searching for Host" voice prompt, and the blue LED blinks during pairing mode.



Open the NFC widget and follow the instruction on the radio to complete the pairing process

Align the NFC tag from the WM800 RSM and the M logo at the back of the radio together until you hear a beep tone (successful detection), but not successfully paired.





- Observe the following in the radio and WM800 for a successful pairing:
- The WM800 has short beeps until devices are successfully paired.
- You hear the "Connected" voice prompt (if Language is selected)
- The Audio or Bluetooth LED blinks blue after a successful

device list before starting another pairing process.