

Product Operation Course



# Operating Batteries

FIELD SH  R<sup>®</sup>

MAKERS OF

 MOBILE<sup>®</sup> WARMING  MOBILE<sup>®</sup> COOLING

# Charging Products

Newer designs all use a **universal USB cable (Micro or USB-C)** for charging. Some legacy styles are still in use and use a battery-specific wall charger with DC plug. The list below is a quick overview of each battery with its charger. Keep in mind, if a battery has a micro USB input it is **not** compatible with a wall charger.

## USB Cable



Powersheer® XL Large Capacity  
MW74V040 (MWCB74V04020)



TYPE C



Powersheer® Standard  
MW74V023 (MWCB74V02322)



Powersheer® Standard  
MW74V022 (MWCB74V02220)



Powersheer® Mini  
MW05V047 (MWCB05V04720)



Powersheer® Micro B  
MW37V22-N (MWCB37V22220)



Powersheer® Micro  
MW37V122 (MWCB37V42221)



Powersheer® Micro  
MW37V022 (MWCB37V32221)

## Wall Charger



NOTE: Customer must use our Mobile Warming® DC charger to ensure correct voltage usage. Use of other DC chargers is not recommended.



MW12V52 (MW12BC)



Straight Plug



MW74V22 (MW74SBC)



Straight Plug



MW74V22-LC (MW74SBC-LC)



Straight Plug



MW74V22-SF



Straight Plug



MWBT2



Straight Plug



MWBT1



Straight Plug

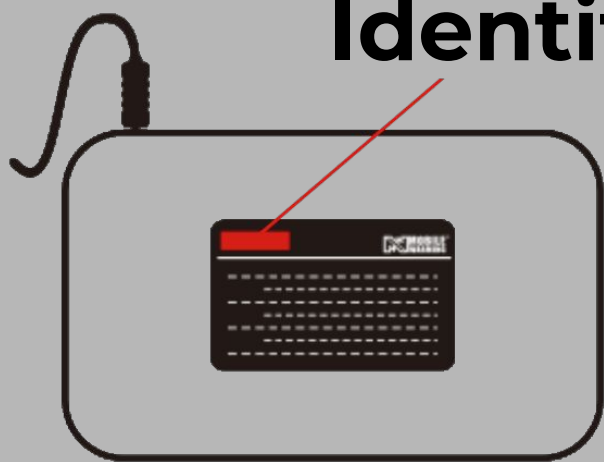


MW370



Straight Plug

# Identifying the Battery Model



Model numbers are listed on the back of each battery. They can typically be found on the first line of the battery details. Most battery models begin with **MW**. Some legacy batteries begin with **ASA**.



Model: MWBT2

Model: MW05V047



Model: MW37V22-N

Model: MW74V22-SF



Model: MW37V122

Model: ASA09U01



Legacy battery, no longer produced.



# Operating Powersheer® Batteries

## Battery Group: Press Briefly to Turn On

There are three primary groups of batteries.  
The batteries in the following lesson all follow the instructions listed below.

### Turn Battery On

- 1. **Press** the battery's power button **briefly**.
  - 2. **Multiple lights** will appear and stay on.
  - 3. The battery is now on.
- NOTE:** Some batteries have a timer after which they will shut off if not powering a garment.



### Turn Battery Off

- 1. **Press and hold** the battery's power button for 3-5 seconds.
- 2. Battery lights will turn off.
- 3. The battery is now off.



### Check Charge Level





- 1. **Same as turning battery on.**
- 2. The number of lights correspond to the charge level.
  - 4 = 100% Charged
  - 3 = 75% Charged
  - 2 = 50% Charged
  - 1 = 25% Charged



*See the following lesson for a list of all batteries that operate in this way.*

# Powersheer® Battery Models

Battery Group: Press Briefly to Turn On

| 7.4V (All 2020 & Newer Models)  |   | On / Charge Level  | Off  |
|---|---|--|--|
|    | MW74V040<br>(MWCB74V04020)  | <div><div><div></div><div></div><div></div><div></div></div>100%</div> <div><div><div></div><div></div><div></div><div></div></div>75%</div> <div><div><div></div><div></div><div></div><div></div></div>50%</div> <div><div><div></div><div></div><div></div><div></div></div>25%</div> | <div><div><div></div><div></div><div></div><div></div></div></div> |
|    | MW74V023<br>(MWCB74V02322)  | <div><div><div></div><div></div><div></div><div></div></div>100%</div> <div><div><div></div><div></div><div></div><div></div></div>75%</div> <div><div><div></div><div></div><div></div><div></div></div>50%</div> <div><div><div></div><div></div><div></div><div></div></div>25%</div> | <div><div><div></div><div></div><div></div><div></div></div></div> |
|  | MW74V022<br>(MWCB74V02220)  | <div><div><div></div><div></div><div></div><div></div></div>100%</div> <div><div><div></div><div></div><div></div><div></div></div>75%</div> <div><div><div></div><div></div><div></div><div></div></div>50%</div> <div><div><div></div><div></div><div></div><div></div></div>25%</div> | <div><div><div></div><div></div><div></div><div></div></div></div> |
| 5V (2022 and Newer)   |   | On / Charge Level  | Off  |
|  | MW05V047<br>(MWCB05V04720)<br><br><u>2020 Model</u> : Double click to turn off. | <div><div><div></div><div></div><div></div><div></div></div>100%</div> <div><div><div></div><div></div><div></div><div></div></div>75%</div> <div><div><div></div><div></div><div></div><div></div></div>50%</div> <div><div><div></div><div></div><div></div><div></div></div>25%</div> | <div><div><div></div><div></div><div></div><div></div></div></div> |

## Battery Error

Indicator: 

All LED's flash 4 or 5 times and battery does not work.

Meaning:

This indicates a battery protection issue.  
The battery needs to be plugged into the charger to reset.

# Operating Batteries

## Battery Group: Press & Hold to Turn On

There are three primary groups of batteries.

The batteries in the following lesson all follow the instructions listed below.

### Turn Battery On

1. **Press and hold** the battery's power button for **3-5 seconds**.
2. **Only** the **100%** will appear and stay on. (Some models flash.)
3. The battery is now on.

**NOTE:** Some batteries have a timer after which they will shut off if not actively powering a garment.



### Turn Battery Off

1. **Press and hold** the battery's power button for 3-5 seconds.
2. Battery light will turn off.
3. The battery is now off.



### Check Charge Level

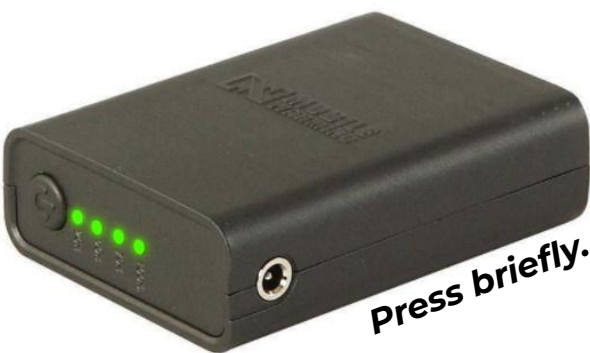
1. **Press** the battery's power button only **briefly**.
2. **Multiple lights** will appear and then shut off.
3. The number of lights correspond to the charge level.

#### Four Lights:

- 4 = 100% Charged
- 3 = 75% Charged
- 2 = 50% Charged
- 1 = 25% Charged

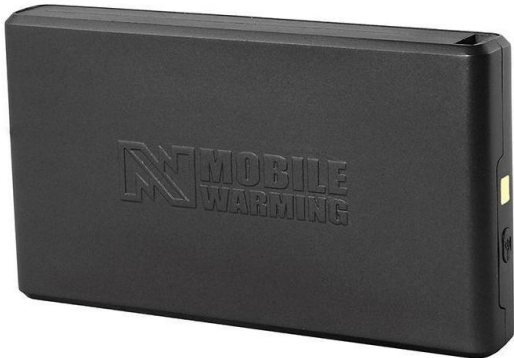
















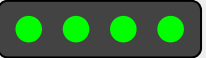





















#### Three Lights:

- 3 = 100% Charged
- 2 = 65% Charged
- 1 = 20% Charged



Battery Models

Battery Group: Press & Hold to Turn On





| 12V   | On   | Off  | Charge Level   |
|---|--|--|--|
| <div><div>MW12V52<br/>(MW12BC)</div></div>           | <div><div>100% Flashes</div></div>                        | <div></div>   | <div><div>100%</div><div>75%</div><div>50%</div><div>25%</div></div>         |
| 7.4V  | On   | Off  | Charge Level   |
| <div><div>MW74V22<br/>(MW74SBC)</div></div>          | <div></div>   | <div></div>   | <div><div>100%</div><div>75%</div><div>50%</div><div>25%</div></div>        |
| 3.7V  | On   | Off  | Charge Level   |
| <div><div>MW37V22-N<br/>(MWCB37V22220)</div></div> | <div><div><div>25% Flashes<br/>for BT</div></div></div> | <div></div> | <div><div>100%</div><div>75%</div><div>50%</div><div>25%</div></div> |
| <div><div>MW37V122<br/>(MWCB37V42221)</div></div>  | <div></div>   | <div></div> | <div><div>100%</div><div>65%</div><div>20%</div></div>  |
| <div><div>MW37V022<br/>(MWCB37V32221)</div></div>  | <div></div>   | <div></div> | <div><div>100%</div><div>65%</div><div>20%</div></div>  |
| <div><div>MW370</div></div>                        | <div></div>   | <div></div> | <div><div>100%</div><div>65%</div><div>20%</div></div>  |

# Battery Models

Battery Group: No Buttons/LEDs

Instructions:

These batteries do not have a power button. Their wall chargers show a green light to indicate when they are fully charged. These batteries do not require turning on before powering a garment.

| 7.4V   | On  | Off | Charge Level       |  |
|--|-----|-----|--------------------|--|
|  <div>MW74V22-LC<br/>(MW74SBC-LC)</div> | N/A | N/A | On Wall<br>Charger |  |
|  <div>MW74V22-SF</div>                | N/A | N/A | On Wall<br>Charger |  |
|  <div>MWBT2</div>                     | N/A | N/A | On Wall<br>Charger |  |
| 7.4V   | On  | Off | Charge Level       |  |
|  <div>MWBT1</div>                     | N/A | N/A | On Wall<br>Charger |  |



# Powersheer® Batteries with Built-In Nightsheer® LED Flashlights

Below Powersheer® Batteries have built in LED Flashlights.



**Model:**  
**MW74V040**  
(MWCB74V04020)

## How to turn ON Nightsheer® LED flashlight:

1. **Press and release** the battery's power button **2 times quickly**.
2. The Nightsheer® LED flashlight will turn ON.
3. To cycle through the 3 modes (High, Low, SOS), **press and release** the battery's power button briefly.
4. To TURN OFF the Nightsheer® LED flashlight, **press and release** the battery's power button **2 times quickly**.



**Model:**  
**MW12V52**  
(MW12BC)

## How to turn ON Nightsheer® LED flashlight:

1. **Press and release** the battery's **Light ON/OFF** button **once briefly**.
2. The Nightsheer® LED flashlight will turn ON.
3. To TURN OFF the Nightsheer® LED flashlight, **press and release** the battery's **Light ON/OFF** button **once briefly**.

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# Operating Garments

# Turning on Mobile Warming® Garments

The majority of Mobile Warming® garments operate in the same way.

Most garments released in **2020 or earlier** required the garment to be **manually turned on**.

Most garments released in **2021 or later** **turn on automatically** when connected to a **live battery**.



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Most garments released in **2020 or earlier** required the garment to be **manually turned on**.

Most garments released in **2021 or later** **turn on automatically** when connected to a **live battery**.

## Exceptions



### Fieldsheer Heated Glove (2020)

Operates like a +2021 garment.  
Garment automatically turns on  
with the battery.



### All Socks

Do not have a garment button. Rather  
they are controlled by the sock battery. We  
will cover this in detail later in this course.



### All Insoles

Do not have a removable battery. They are  
turned on through the insole's button.  
We will cover this in detail later in this course.



# Turning on 2020 or Older Garments

Product year can be determined by the product's SKU. See the *Product Knowledge* course for more details.

MWP19W05-01-01 = **2019**

MWMV040107**20** = **2020**

MWJ18W06-07-03 = **2018**

MWMJ122204**20** = **2020**



## #1 Plug the battery into the garment's power cable.

### Location

- Outerwear = Inner Pocket in Right Hand Pocket
- Baselayer Shirts = Main Right Pocket
- Pants = Main Pant Pocket
- Gloves = Wrist Pocket



## #2 Turn the battery on according to the previous section.



## #3 Press and hold the garment's power button for 3-5 seconds.

### Indicator:

- The garment button will turn red.
- Bluetooth garments may also flash blue.



# Turning on 2021 or Newer Garments

Product year can be determined by the product's SKU. See the *Product Knowledge* course for more details.

MWMV043403**21** = **2021**  
MWMJ350104**21** = **2021**

MWUH080100**22** = **2022**  
MWUG253404**22** = **2022**



## #1 Plug the battery into the garment's power cable.

### Location

- Outerwear = Inner Pocket in Right Hand Pocket
- Baselayer Shirts = Main Right Pocket
- Pants = Main Pant Pocket
- Gloves = Wrist Pocket



## #2 Turn the battery on according to the previous section.



## #3 Garment will automatically turn on!

### Indicator:

- The garment button will turn red.
- Bluetooth garments may also flash blue.





# Changing Heat Settings



**Press the garment button once**  
to change heat settings for garments of any year.



**Red = 100% Heat**



**Orange = 75% Heat**



**Green = 50% Heat**



**Blue = 25% Heat**

# Turning Off Garments

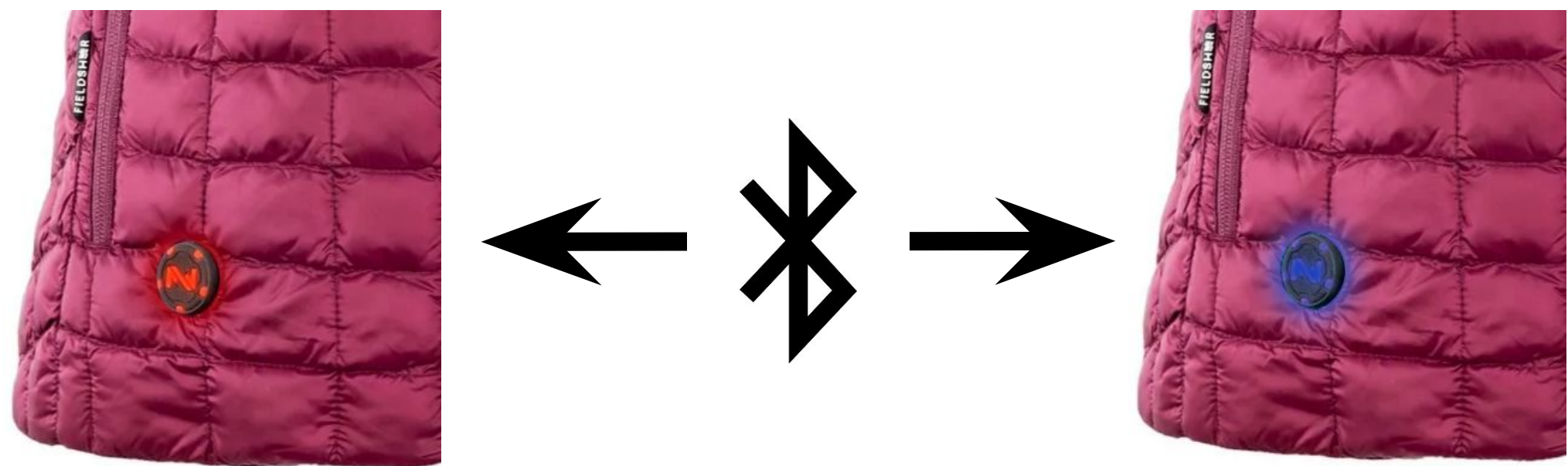


**Press and hold the garment's control button**  
to turn off garments of any year.





# Bluetooth Indicator



**Bluetooth enabled** garments will occasionally flash blue. They also have a slightly larger controller button than non-Bluetooth garments. These garments can be controlled with Fieldsheer’s proprietary **MW Connect™** app.

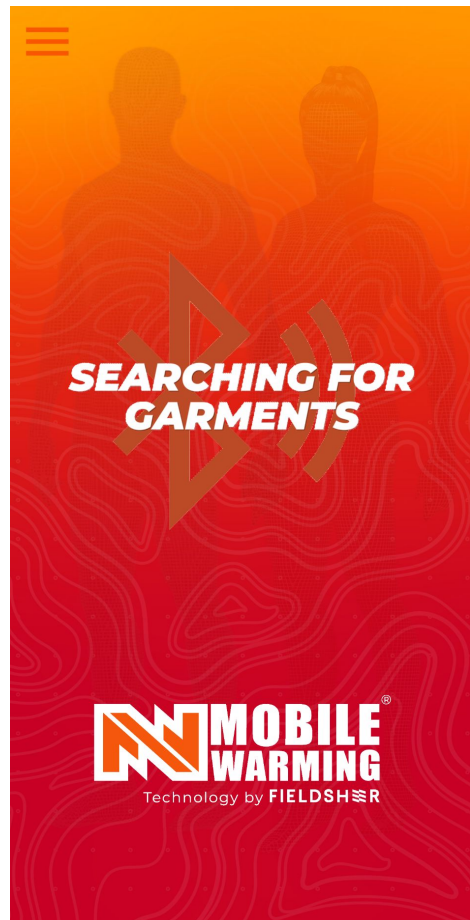




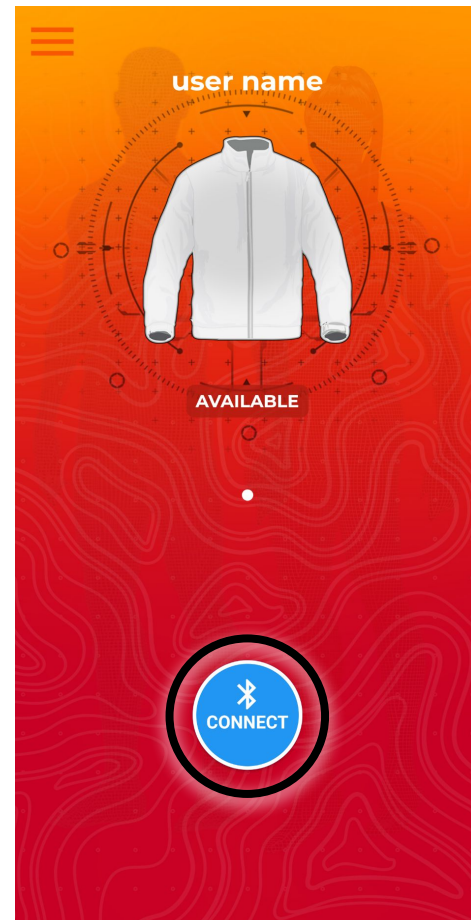
# Using the MW Connect™ App

## Connect

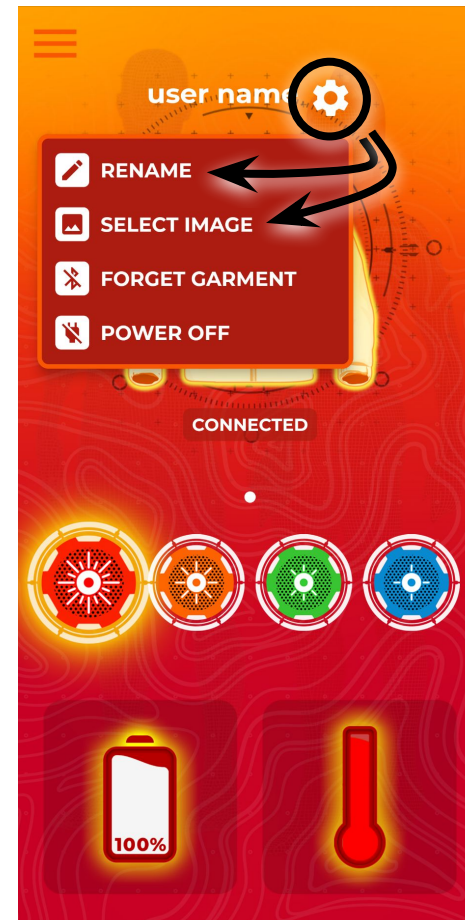
Open the MW Connect™ app and manually turn on your garment.



Once your item appears on the screen, tap "CONNECT".



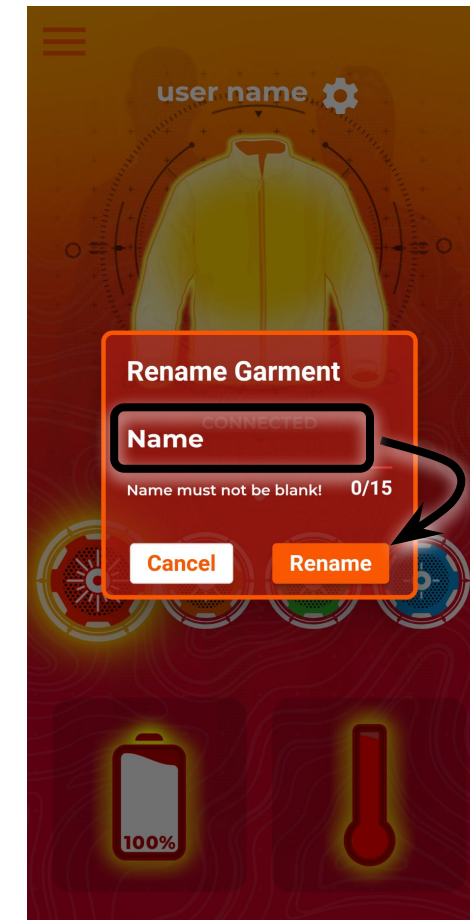
Tap on the Gear Icon, then "RENAME" or "SELECT IMAGE".



## Personalize (Optional)

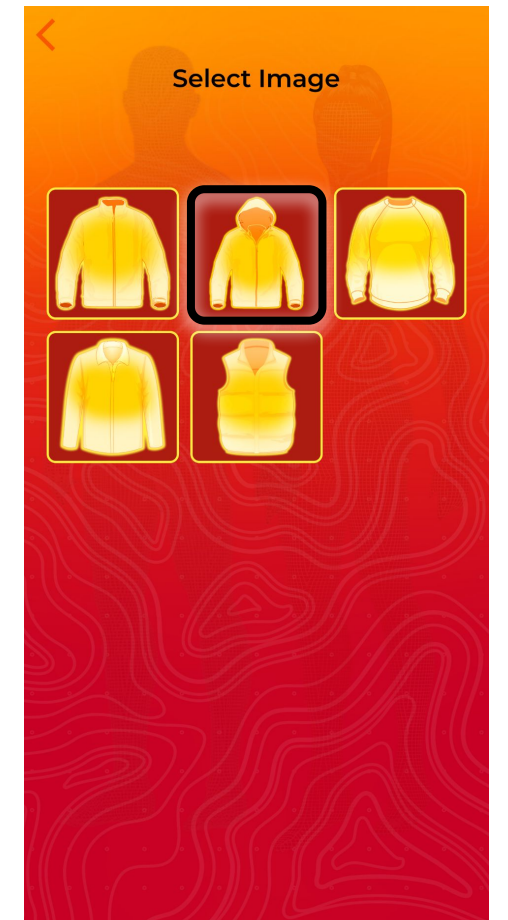
"RENAME"

Enter a name 1-15 characters long.



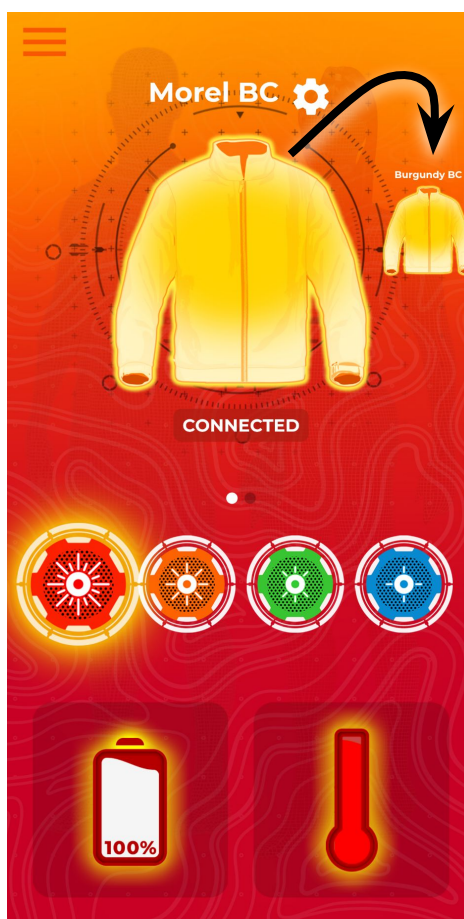
"SELECT IMAGE".

Choose your desired image.



## Change Heat Setting

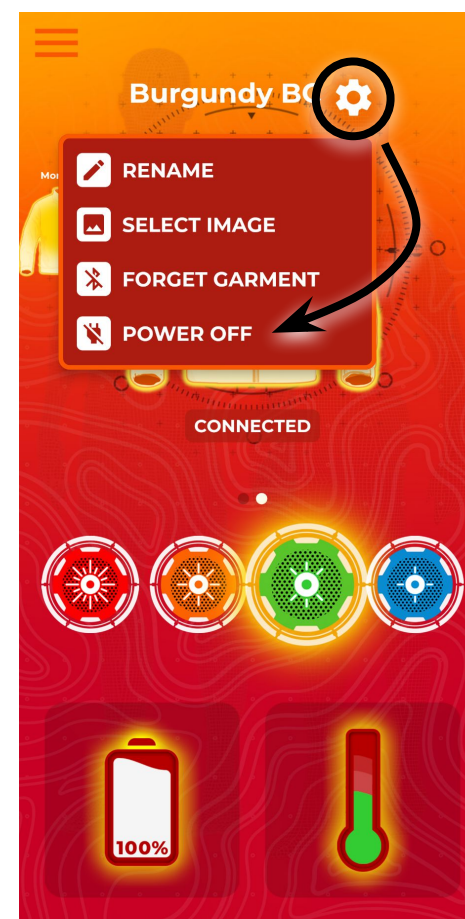
Tap on the desired garment.



Tap on the desired heat setting.



Tap on the Gear Icon & the "POWER OFF" option.



Confirm "POWER OFF".



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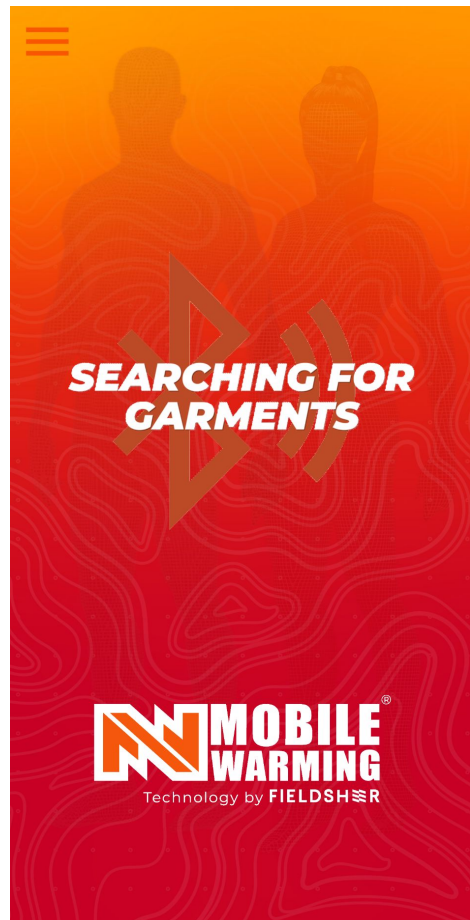
MOBILE WARMING MOBILE COOLING



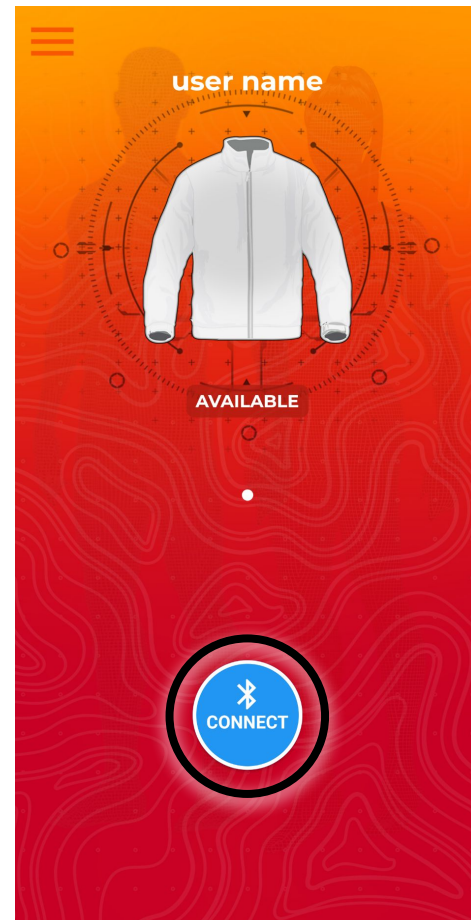
# Using the MW Connect™ App

## Connect

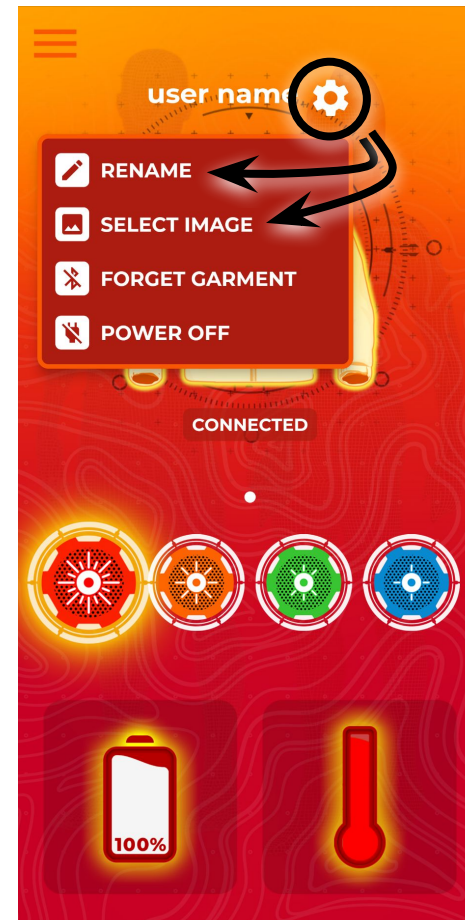
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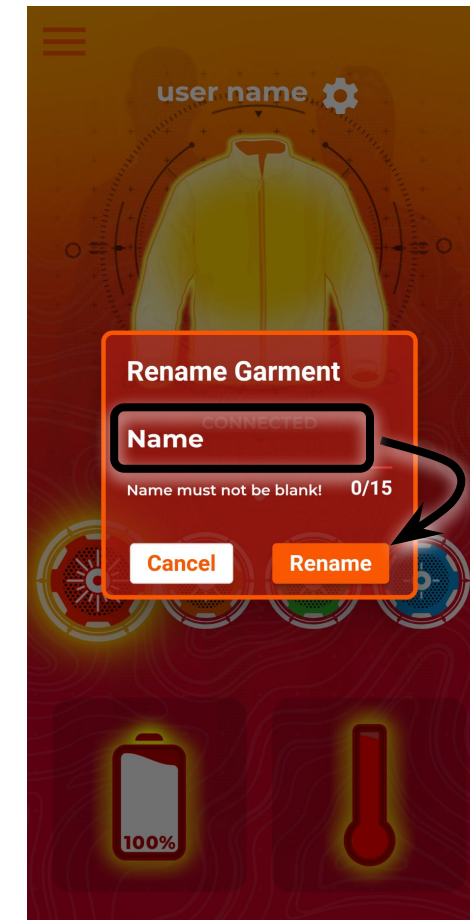
Tap on the Gear Icon, then "RENAME" or "SELECT IMAGE".



## Personalize (Optional)

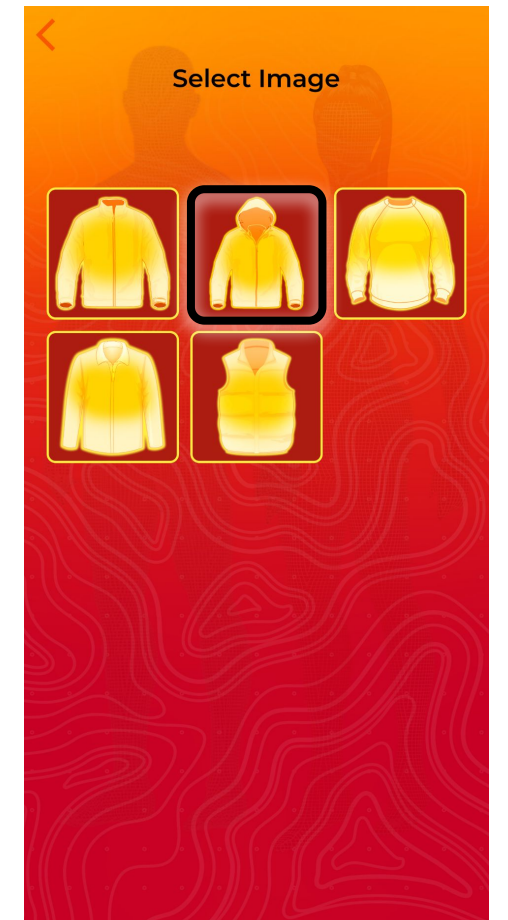
"RENAME"

Enter a name 1-15 characters long.



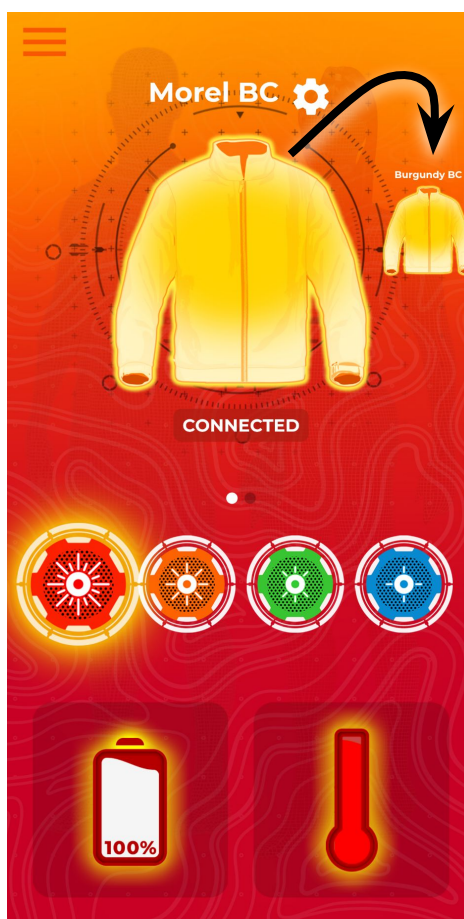
"SELECT IMAGE".

Choose your desired image.



## Change Heat Setting

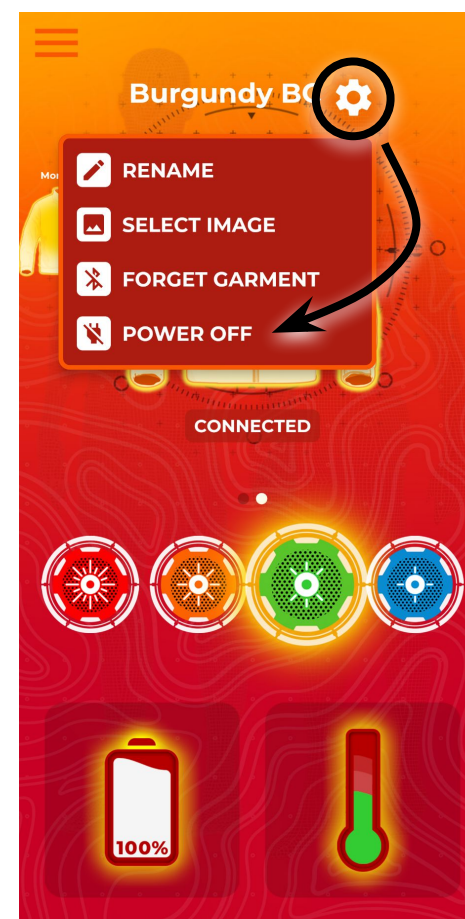
Tap on the desired garment.



Tap on the desired heat setting.



Tap on the Gear Icon & the "POWER OFF" option.



Confirm "POWER OFF".



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# Operating Garments: Summary



1. **Connect a fully charged battery to the garment.**

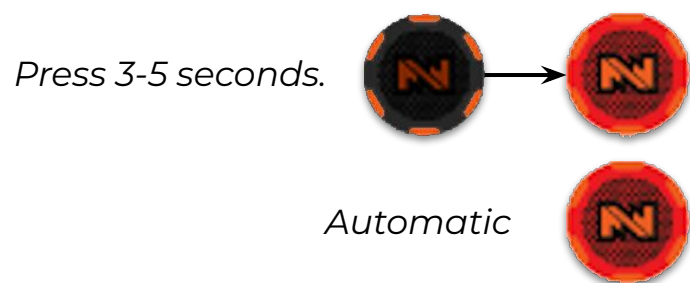
Press briefly.

Press 3-5 seconds.

Automatic **(No LEDs)**

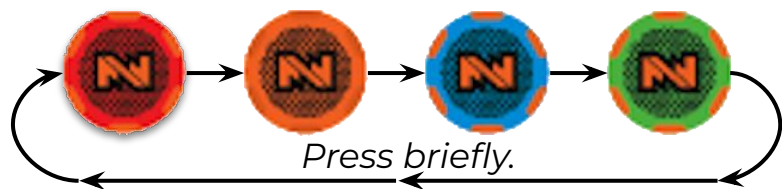
2. **Turn on the battery** by following the instructions below based on battery type:

- a. Press battery button briefly.
- b. Press and hold battery button for 3-5 seconds.
- c. No turn on required.



3. **Turn on the garment** after connecting to a battery that is turned on.

- a. **2020 & Older** - Press and hold the garment's power button for 3-5 seconds.
- b. **2021 & Newer** - No turn action required.



4. **Change heat setting:**

- a. **Manual Method** - Briefly press the garment button.

Starts On = Red (100%)

1st Press = Orange (75%)

2nd Press = Green (50%)

3rd Press = Blue (25%)

4th Press = Red (100%)



- b. **Bluetooth Method** (BT Models Only) - Within the MW Connect™ app, tap on the garment icon. Select the color of the desired heat setting.

5. **Turn off garment:**

- a. **Manual Method** - Press and hold the battery button for 3-5 seconds.

- b. **Bluetooth Method** (BT Models Only) - Select the “Gear Icon” and “Power Off” from MW Connect™ app.



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# Operating Socks

# Mobile Warming® Socks: **Battery & Heat Zone Locations**



Mobile Warming® Socks come with two small batteries that connect at the top of each sock.  
Each sock has a heating panel located on the underside of the toes.

## Battery Location

Outside Cuff of Sock



## Heat Zone:

Under Toes



# Mobile Warming® Socks: **Battery Compatibility**

Nearly all Mobile Warming® socks are compatible with our other sock batteries.  
The only sock which is not compatible with any other battery is the 2019 Standard Sock.  
The only battery which is not compatible with other socks is the MW370 battery.

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |
| Standard<br>(2019)  | Premium<br>(2019)   | Thermal<br>(2021)   | Merino<br>(2021)  | Pro Compression<br>(2021)   | Costco Merino BT<br>(2021)  | Premium 2.0 Merino<br>(2021)  |
|  |  |  |  |  |  |  |
| MW370<br><u>Controls:</u><br>•Manual<br>•Remote                                     | MW37V22-N<br><u>Controls:</u><br>•Manual<br>•Bluetooth                              | MW37V022<br><u>Controls:</u><br>•Manual   | MW37V122<br><u>Controls:</u><br>•Manual<br>•Remote                                    | MW37V22-N<br><u>Controls:</u><br>•Manual<br>•Bluetooth                                | MW37V22-N<br><u>Controls:</u><br>•Manual<br>•Bluetooth                                | MW37V22-N<br><u>Controls:</u><br>•Manual<br>•Bluetooth                                |

**Not interchangeable.**

**Batteries and socks are interchangeable.**



# Closer Look at Sock Batteries

Below are the Mobile Warming® sock batteries. Take a careful look at the kind of controls each battery offers.

These batteries can be substituted for each other, with the exception of the MW370 battery.

The MW370 battery and the Standard Sock are only compatible with each other.



**Bluetooth Battery**  
MW37V22-N  
(MWCB37V22220)



Premium  
Thermal  
Merino  
Compression  
Costco Heated  
Premium 2.0 Merino

**Not:** Standard Sock



**Wireless Battery**  
MW37V122  
(MWCB37V42221)



Premium  
Thermal  
Merino  
Compression  
Costco Heated  
Premium 2.0 Merino

**Not:** Standard Sock



**Standard Battery**  
MW370



Standard Sock

**Not:**  
Thermal  
Merino  
Compression  
Costco Heated  
Premium 2.0 Merino



**Non-Wireless**  
MW37V022  
(MWCB37V32221)



Premium  
Thermal  
Merino  
Compression  
Costco Heated  
Premium 2.0 Merino

**Not:** Standard Sock





# Turning on Mobile Warming® Socks



**#1 Plug the battery into the garment's power cable.**

Location: Top of each sock cuff.



**#2 Press and hold the battery's button for 3-5 seconds to turn on both the battery and garment.**

Note: There is no "garment" button.



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# Socks: **Changing Settings and Turning Off**

## Battery Button



1. **Change Heat Setting:** Briefly press the battery button.  
The battery LED will move to a lower setting, indicating the heat level.
2. **Turn Off:** Press and hold battery button for 3-5 seconds.



## Remote Control



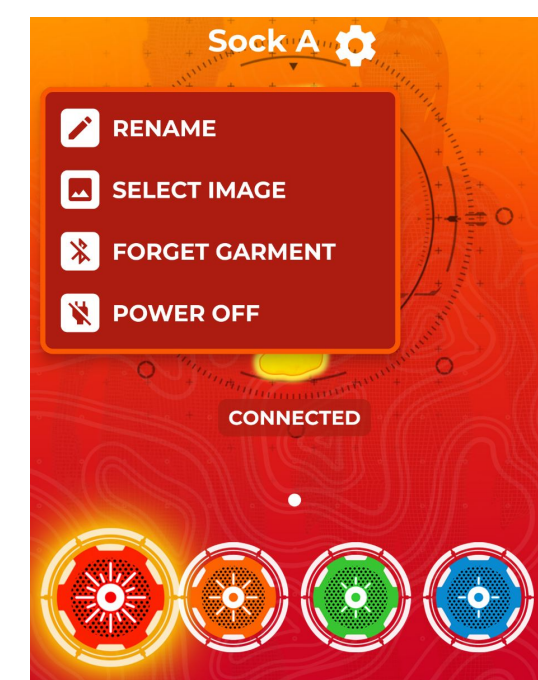
1. **Change Heat Setting:** Press the desired setting on the remote.
  - a. H = High
  - b. M = Medium
  - c. L = Low
2. **Turn Off:** Press the power button on the remote.



## MW Connect™ App



1. **Change Heat Setting:**
  - a. Pair the socks with the phone in the MW Connect™ App.
  - b. Select the sock image.
  - c. Select the color of the desired heat setting.
    - i. Red = 100%
    - ii. Orange = 75%
    - iii. Green = 50%
    - iv. Blue = 25%
2. **Turn Off:**
  - a. Tap the gear icon.
  - b. Select "POWER OFF".



*For more information, see separate material on using the MW Connect™ app.*



# Using Mobile Warming® Socks



1. **Connect a fully charged battery to the sock.**

Press 3-5 seconds.



2. **Turn on the battery & socks:** Press and hold the battery button for 3-5 seconds.

3. **Change heat setting:**

Press briefly.



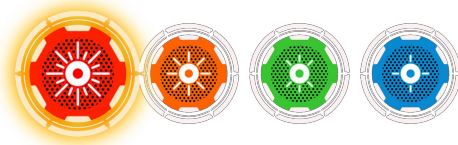
a. **Battery Button Method** - Briefly press the battery's power button.

Press briefly.



b. **Remote Method** (Some Models) - Press the desired setting on the remote.

Tap in the app.



c. **Bluetooth Method** (Some Models) - Select the color of the desired heat setting.

4. **Turn off socks:**

Press 3-5 seconds.



a. **Battery Button Method** - Press and hold the battery button for 3-5 seconds.

Press briefly.



b. **Remote Method** (Some Models) - Press the power button on the remote.

Tap in the app.



c. **Bluetooth Method** (Some Models) - Select the "Gear Icon" and "Power Off" from

MW Connect™ app. Both socks will turn off.

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# Operating Insoles

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# Mobile Warming® Insoles

Our Mobile warming insoles have a non-removable battery, charge with a micro USB, and heat under the toes. They can be cut down to the appropriate shoe size by following the guides on the bottom of the insoles

## Cutting Insoles

should only be done on the two engraved lines. Insoles should not be cut on or below the gray material.



## Standard Insoles:

Charger input and power button located on the back.



## Premium Insoles:

Charger input and power button located on the side.



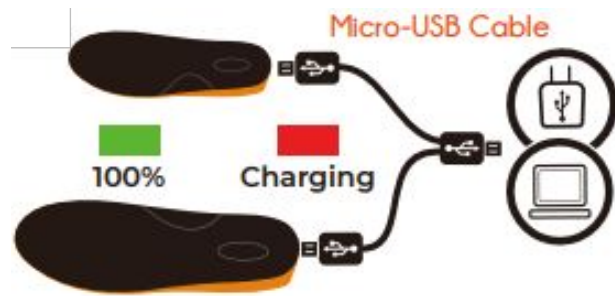
## Heat Zone:

Under Toes



# Using Mobile Warming® Standard Insoles

**Note:** Insoles do not have a removable battery.



**1. Fully charge the insoles.** Plug the USB directly into the back of the insoles.

**Location:** Back of Insoles

**Indicator Light:**

Green = 100% charged.

Red = Not fully charged.

**2. Check insole charge level:** Charge level can be viewed only while charging.

**3. Turn on, change heat setting, turn off:**

a. **Manually:** Press the insole button briefly.

1st Press = Green (Low Setting, 25%)

2nd Press = Orange (Medium Setting, 65%)

3rd Press = Red (High Setting, 100%)

4th Press = Off

b. **Remote:** Press the desired button the remote briefly.

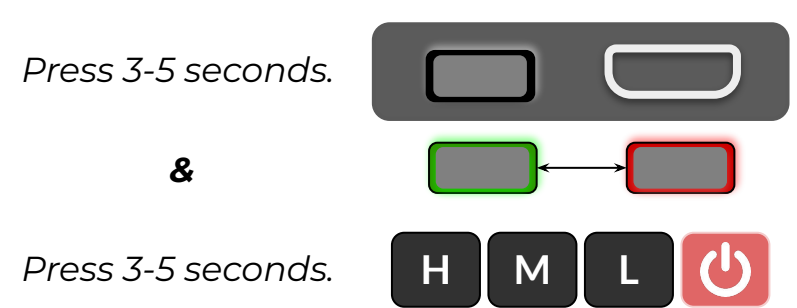
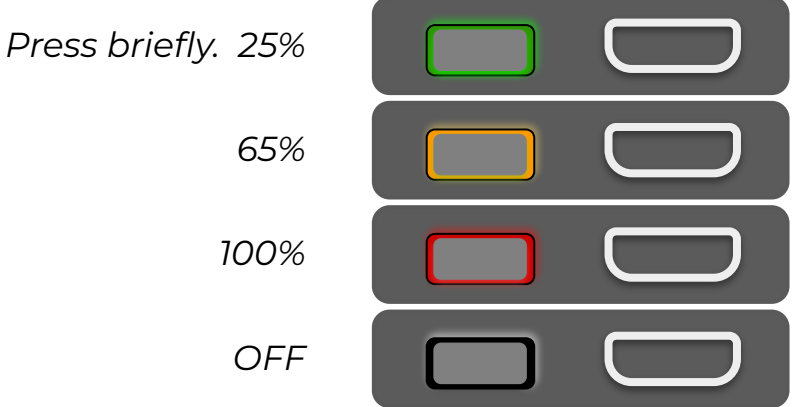
H = High (Red, 100%)

M = Medium (Orange, 65%)

L = Low (Green, 25%)

⏻ = Off (No LED)

**Note:** If the insoles have been used recently, they can be turned on by pressing H, M, or L on the remote. If remote times out, turn on insoles manually.



**4. Re-pair remote and insoles:**

a. Press and hold the insoles' power buttons for 3-5 seconds.

(Light will flash between green and red.)

b. **At the same time**, press and hold any button on the insole remote.

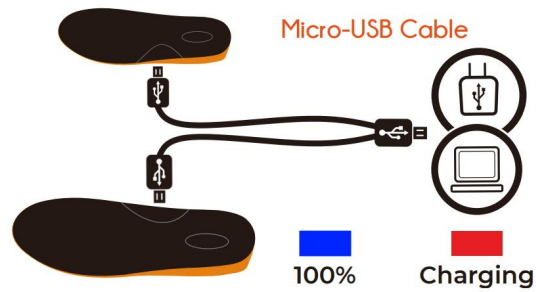
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# Using Mobile Warming® Premium Insoles

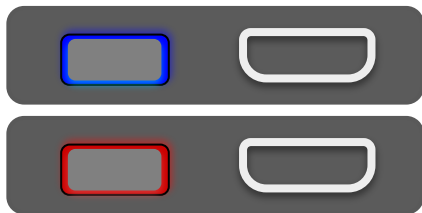
Note: Insoles do not have a removable battery.



1. **Fully charge the insoles.** Plug the USB directly into the insoles.

**Location:** Inner side of Insoles

Press briefly.

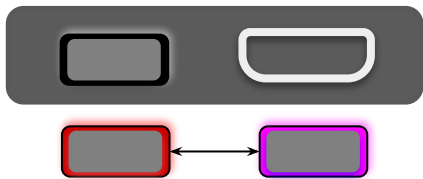


2. **Check insole charge level:** Press the power button briefly.

Blue = 100% charged.

Red = Not fully charged.

Press 3-5 seconds.



3. **Turn on the insoles:** Press and hold the insole button for 3-5 seconds.

**Light sequence:** Flash between red and purple.

4. **Change heat setting:**

a. **Manual** - Briefly press the battery's power button.

Starts On = Red (100%)

1st Press = Orange (75%)

2nd Press = Green (50%)

3rd Press = Blue (25%)

4th Press = Red (100%)

100%



75%



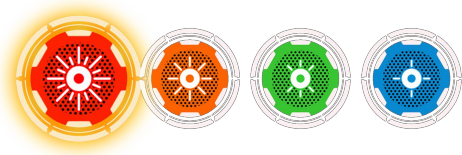
50%



Press briefly. 25%



Tap in the app.



b. **Bluetooth Method** - Within the MW Connect™ app, tap on the insole icon. Select the color of the desired heat setting.

Press 3-5 seconds.



Tap in the app.



5. **Turn off insoles:**

a. **Battery Button Method** - Press and hold the battery button for 3-5 seconds.

b. **Bluetooth Method** (Premium Model) - Select the “Gear Icon” and “Power Off” from MW Connect™ app. Both insoles will turn off.

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