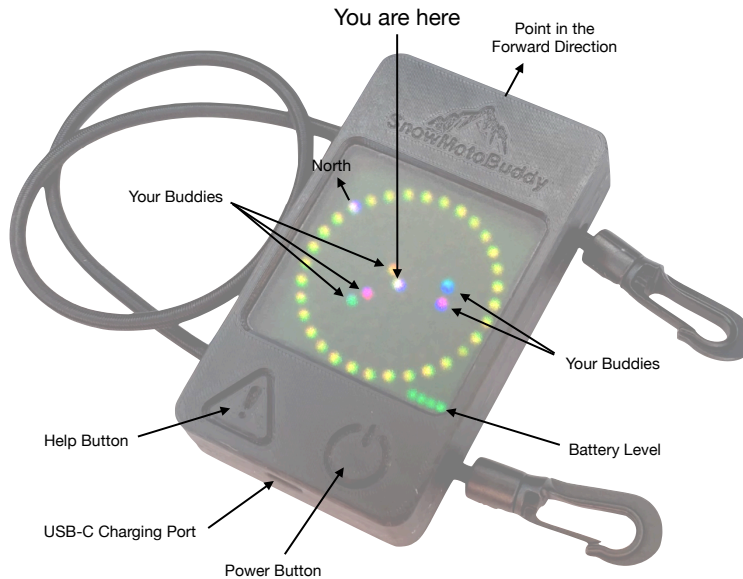


# SnowMotoBuddy™ Users Guide



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# Charging

Please fully charge your SnowMotoBuddy before using for the first time. The SnowMotoBuddy has a long-life battery and built-in smart battery charger which will not over-charge the battery if left plugged in.

When charging, the battery indicators show:

on	on	on	on	fully charged (not charging)
on	on	on	on	more than 80% charged
off	on	on	on	more than 50% charged
off	off	on	on	less than 50 % charged
off	off	off	on	less than 25% charged
on	on	on	on	battery or charger problem

Turn-off your SnowMotoBuddy before attaching to a USB-C charging cord. When charging, the battery indicator will blink, and the rest of the display will be blank.



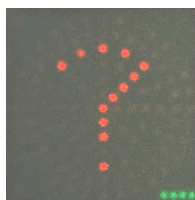
When fully charged, the battery indicator will stop blinking and the left battery dot will be blue.

# Powering On

Firmly press and release the lower right corner on the power logo. Very briefly the top dot will blink blue, followed by a display of concentric circles.

# Blinking Question Mark?

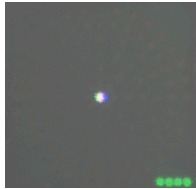
A blinking red question mark means the GPS is determining your current location.



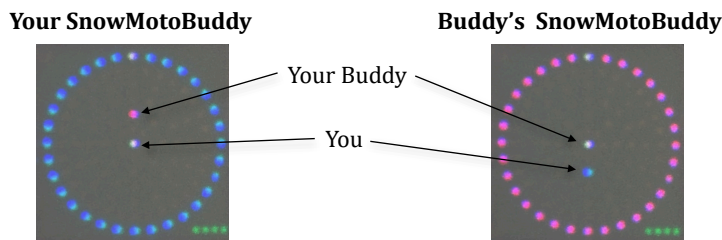
The GPS requires an unobstructed view of the sky to quickly determine your location. This can take from a few seconds to a few minutes. (If you are inside a building, it may never find your location)

## You Are Here

The center white dot is always you, at your current location.



When SnowMotoBuddy is powered on, it listens to make sure that someone isn't already using using your color, otherwise it chooses another color. The outer ring shows what color your SnowMotoBuddy is. Your buddies will see you on their screens as a dot of the same color.



In this case, your color is blue, and your buddy's color is magenta.

## Your Buddies

The dots between your center white dot and your colored ring, are your buddies. Buddies that are closer to the center dot are closer to you. Each buddy can be identified with a unique color, however, colors are re-used after 17 or more buddies.

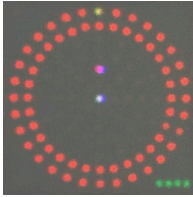
Your buddy's dot will blink white every time you receive that buddy's location. If you stop hearing from your buddy after a few minutes, his dot will blink blue instead of white.

Buddies that are directly above the center dot are directly in front of you. To go find a buddy, turn until their dot is directly above the center dot and keep their dot directly above the center until you find them.

# Getting Attention

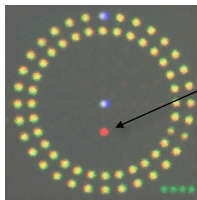
The Help button sends a message to your other buddies that you may need assistance. Your screen's outer two rings show red when your Help button is pressed.

Your Help button is pressed



Your buddies will see their outer two rings yellow, and, your dot will rapidly blink red.

Buddy view of you when your Help button is pressed



Your dot rapidly blinks red

In this case, your buddy would turn around and head in the opposite direction to reach you.

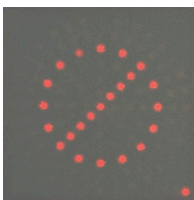
Pressing the Help button again will remove the red rings, and stop alerting your buddies.

# Battery Display

The four indicators in the lower right show remaining battery level:

on	on	on	on	more than 90% charged
on	on	on	on	more than 80% charged
off	on	on	on	more than 50% charged
off	off	on	on	less than 50% charged
off	off	off	on	less than 25% charged

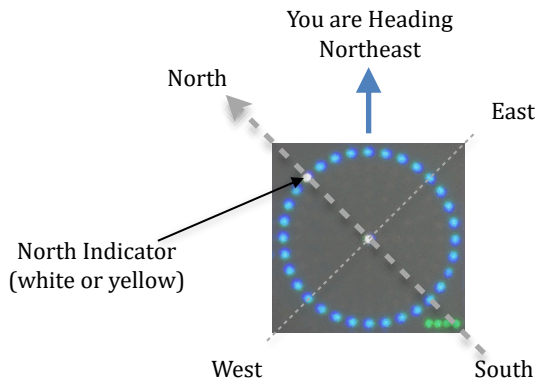
Once the battery gets very low below this, a red zero will be displayed on the screen.



After 10 seconds the SnowMotoBuddy will power-off to prevent excessive battery drain. Pressing the Help button before power-off will allow normal operation until the usable battery is exhausted.

## North Indicator

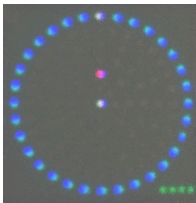
Along the outer ring you there is one dot that is yellow or white. Drawing an imaginary line from your center white dot thru this dot will point in the northerly direction.



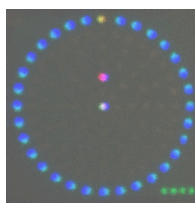
When you are moving, the North Indicator will appear white and continue to point North as you turn, similar to a compass ring.

When you are not moving, or moving very slowly, the North Indication will be yellow and does not change as you turn, therefore cannot be relied on to point North.

Moving, heading North



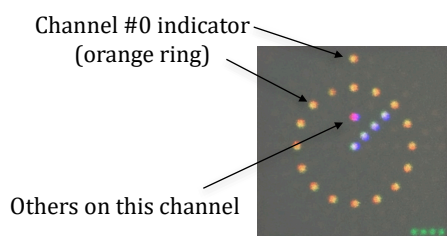
Not Moving, last heading was North



However, if you come to a stop in a straight line, and do not turn the SnowMotoBuddy, your vehicle, or handlebars, the North Indicator will correctly point in the Northerly direction.

# Changing Channels

If different groups are operating in one area, you can keep their buddies separate by group switching to a different radio channel. To do so, turn the SnowMotoBuddy off, then, press and hold the Help Button while powering-on, then release the help button. The display will show an orange dot top center, and small ring of the same color. This is showing that channel #0 is selected.



Any others operating on the channel are displayed as buddy dots.

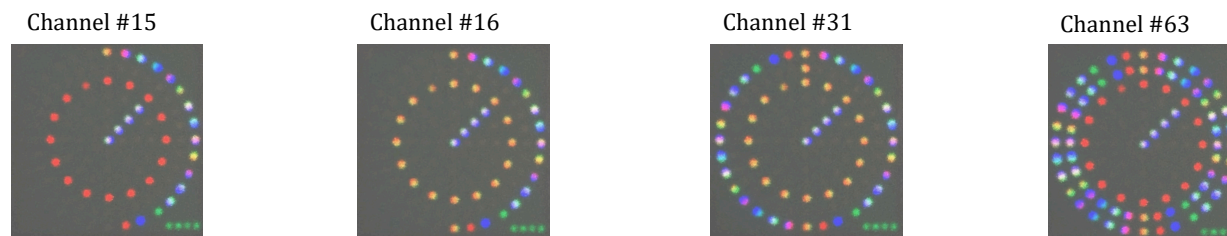
To use this channel, press and hold the Help Button until the display changes.

To cancel changing the channel, press the power button.

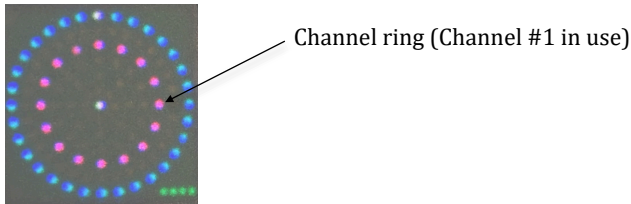
Each time you press the Help button, the channel changes to the next channel. All the buddy dots are cleared, and then any others operating on this next channel are displayed as buddy dots.

There are a total of 64 channels to choose from (0 thru 63). If you go past channel #63, you will start back at channel #0.

SnowMotoBuddy can only hear other buddies that are on the same channel.



If you are using a channel other than channel #0, the small channel indication ring will show for a short time after power-on as a reminder.



Since the colors repeat for channel numbers greater than 16, see the Q&A for setting the channel number manually.

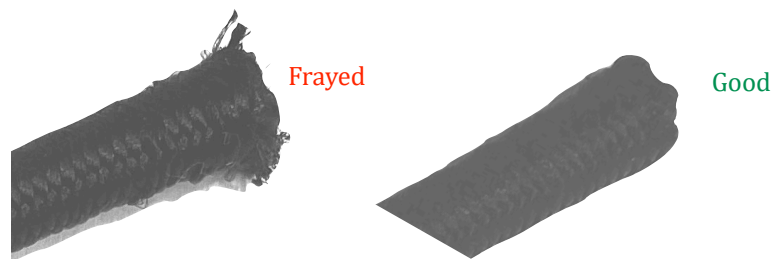
## Track Log

While you are using your SnowMotoBuddy, your GPS track is saved to a file. To access your track log, connect your SnowMotoBuddy to your computer using a USB cable. Your computer will mount a disk named "TRACK LOGS". During movement, updates are saved to a file containing today's date. These files are KML formatted, and double clicking them should open them in Google Earth or other application supporting KML. When your volume gets full, the older KML files are deleted to make room for new track logs, so don't forget to save your track logs to your computer.

## Bungee Cords

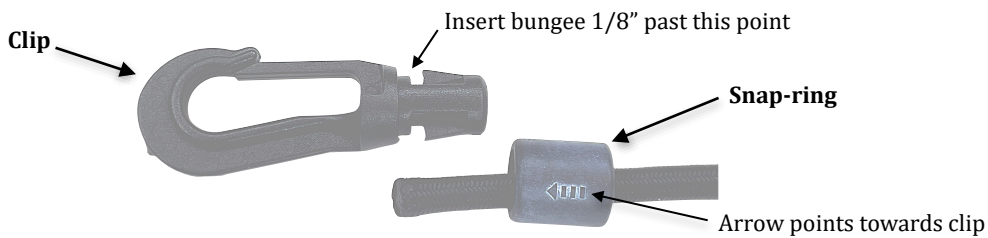
Your SnowMotoBuddy comes with a 24" long bungee cord and two clips to allow quickly mounting on any machine without additional mounting hardware.

Depending on your machine, you may prefer the loop on the left or right side. To connect the clips to the bungee cord, make sure the ends of the bungee cord are not frayed.



If frayed or cut, use a match or lighter to quickly and slightly melt the bungee end, then roll or pinch the end to ensure that the center rubber is not past the slightly melted outer braid and the bungee end is straight and smooth.

Slide the snap ring onto the bungee with the arrow pointing toward the clip.



Next push the bungee into the clip and firm pressure will usually suffice does not go fully into the clip, it will

Finally, slide the snap-ring fully onto stop turning.

until you see it go into the head of the clip. Twisting in fully seating the bungee into the clip. If the bungee fail to hold later.

the clip, and twist until a click is heard or you feel it

After passing the bungee thru the SnowMotoBuddy, attach the other clip.

To remove a clip from a bungee cord, twist snap-ring until it starts turning then slide it off the clip onto the bungee cord. Twist and pull the bungee cord until it frees from the clip.

## Attaching to your Machine

Your SnowMotoBuddy easily attaches by sliding the loop-end of the bungee cord over the handle bars, and securing with the clips.

Demonstration video: <https://www.youtube.com/watch?v=D2WZryhGX30>

Another way to attach is to pass the loop around the handle bars and then pass the SnowMotoBuddy thru the loop, and again securing with the clips.

The SnowMotoBuddy logo should be upright, and pointing in the forward direction of your vehicle.

Your SnowMotoBuddy is water and snow resistant, however repeated exposure to high-pressure water or snow during use will shorten it's life, therefore we recommend mounting on top of the handle bars to minimize unnecessary exposure.



# Troubleshooting

We expect that you'll have a trouble free experience with your SnowMotoBuddy.

If you are experiencing an issue, please contact us immediately so that we can help you get back to enjoying your device.

Here is some information that may help in determining an issue. If these don't help, contact [info@SnowMotoBuddy.com](mailto:info@SnowMotoBuddy.com).

**Symptom:** only a single colored dot appears at the center after powering-on.

A single dot at the top center is used to identify problems. When the device powers on, this dot will briefly blink blue. Other colors indicate non-normal conditions:

Blue - Normal - blinks at startup.

Red - The device has crashed on startup.

Orange - The device had a power failure during use.

Green - The device is missing an operating system.

**Symptom:** SnowMotoBuddy won't charge

Check: make sure that you have a USB-A charger and a USB-A to USB-C cable:



Try: a different SnowMotoBuddy or another device to verify that the charger and cable are working.

Try: another USB-A charger, or one that you know has worked before.

Your device won't charge if the battery is already very full... see Battery Display section.

## Q&A

**Q)** How can I change my channel without waiting for the sweep-hand thingy?

**A)** Connect your SnowMotoBuddy to your computer. Open the TRACK LOGS volume and edit the device\_id.txt file. The format of this file is "device\_id,channel". Device ID can be a number between 0 and 255. The channel can be a number between 0 and 63. If you make a mistake or provide data that isn't in this format and range, SnowMotoBuddy will reset the device\_id.txt file the next time it boots on battery and locates an unused ID on channel 0.

**Q)** Where can I find my serial number?

**A)** Connect your SnowMotoBuddy to a computer and you can find the serial number in the boot\_out.txt file on the TRACK LOGS volume.

**Q)** What is device\_id.txt file?

**A)** This file contains the saved device ID and channel#. When the SnowMotoBuddy is powered on, it tries to use the ID and channel# from this file. Deleting it will cause the SnowMotoBuddy to find a new ID on channel #0.

**Q)** Why does the North Indicator change between white and yellow?

**A)** SnowMotoBuddy uses the GPS to determine your heading, and it can only determine a heading when you are moving. The current heading is used for the North Indicator. When you go very slow or stop, the GPS can't calculate a good heading, and the dot becomes yellow to let you know that the GPS isn't providing a heading, and the North Indicator isn't being updated.

**Q)** Can I mount the SnowMotoBuddy anywhere and in any orientation?

**A)** It is best to mount the device so that the SnowMotoBuddy logo is upright and pointing in the forward direction on the handle bars. SnowMotoBuddy will function in any orientation, however, it maybe confusing if the logo isn't upright and in-line with the forward direction. Any location where direct spray from snow or water should be avoided. Rain or snow storms will not affect your SnowMotoBuddy.