

Cricket[®]



www.somaxis.com

Cricket[®] User Guide v1.0

for Cricket[®], Model# C1



halosphere.somaxis.com
User Name: _____
Password: _____

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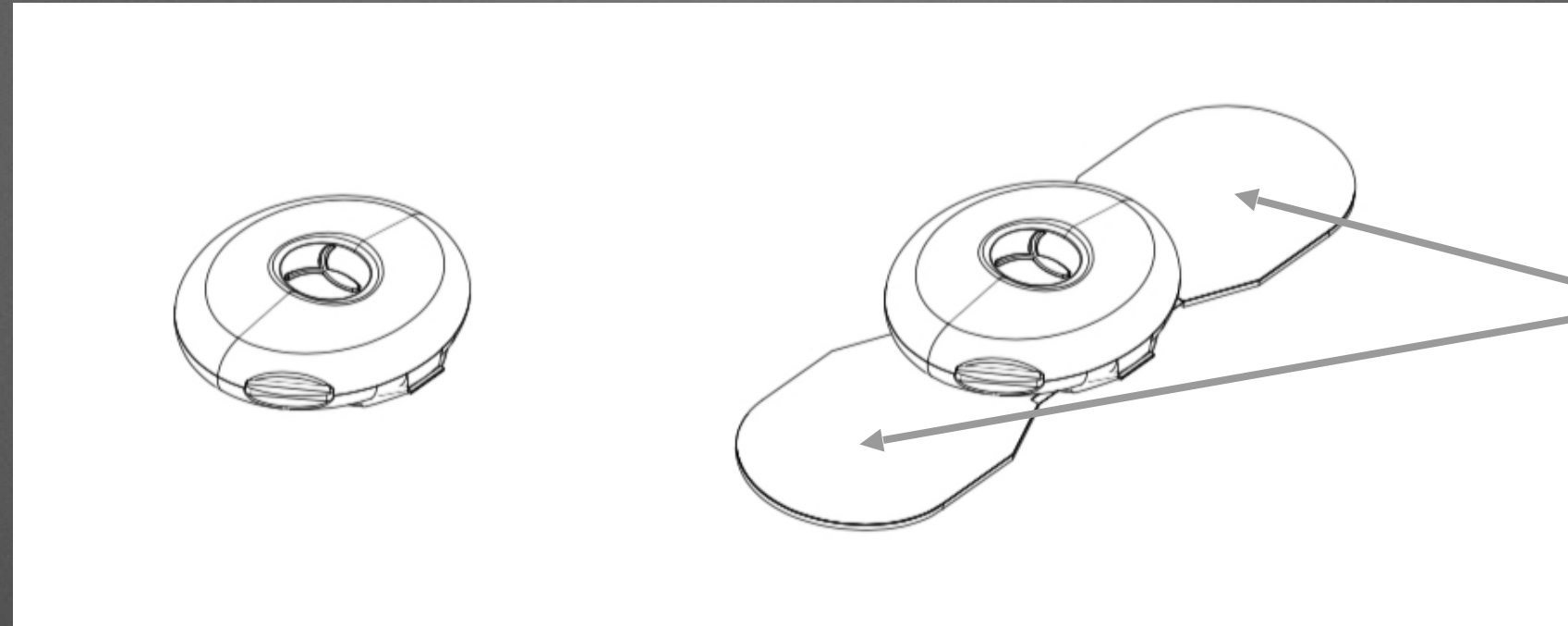


Cricket[®] is a wearable device that can measure signals from your **muscles, heart, brain, movement, and body position**. From these input sources, data is encrypted and sent to the iOS app Chirp where it is used to calculate a range of **biometric data markers**. Some of these biomarkers are associated with **health**, some with **fitness**, and some more specifically have to do with **stress** and learning **behavior change**.

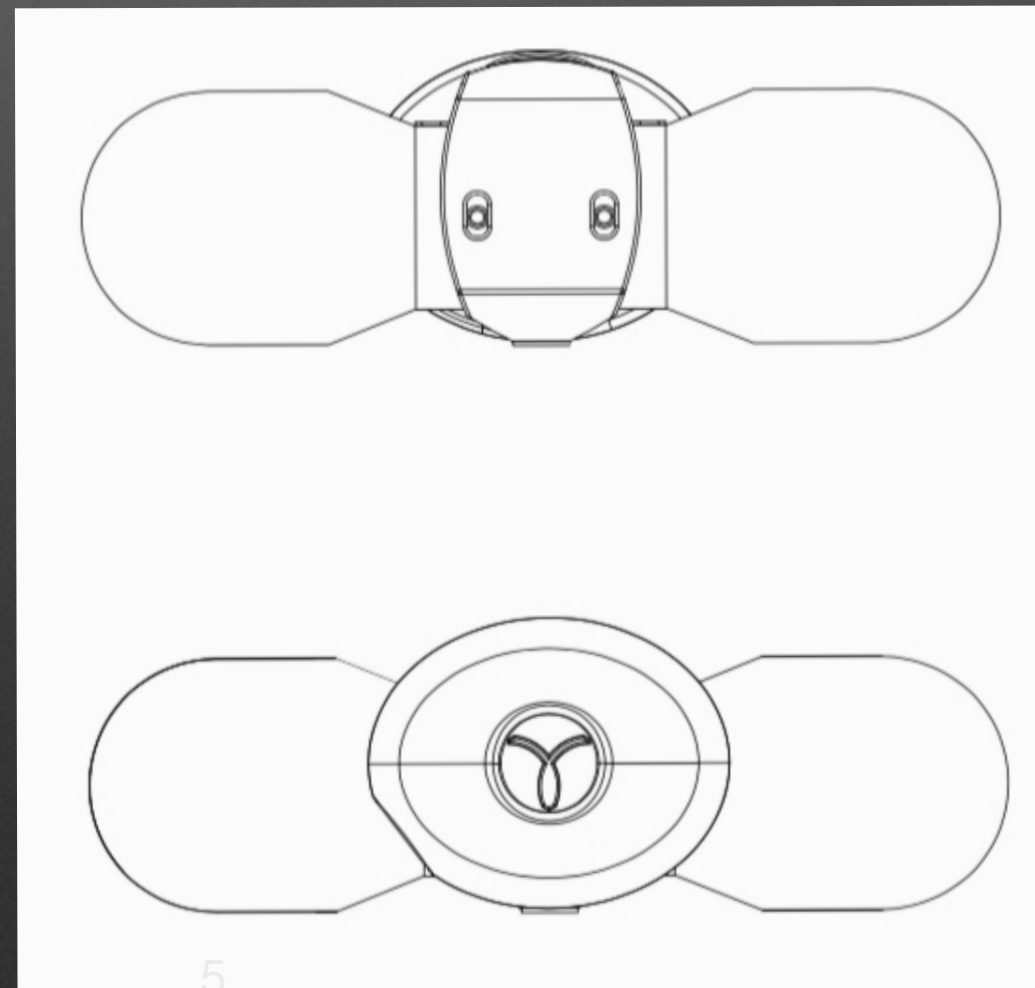
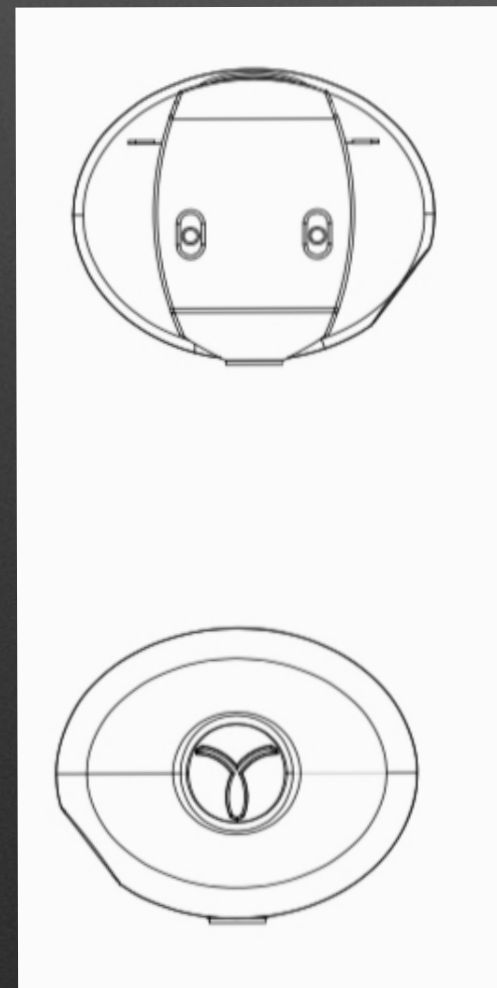
Encrypted data is accessible on the cloud:
halosphere.somaxis.com

Cricket[®] can be worn with a compatible Patch

Cricket[®]



Patch



What's in the box:



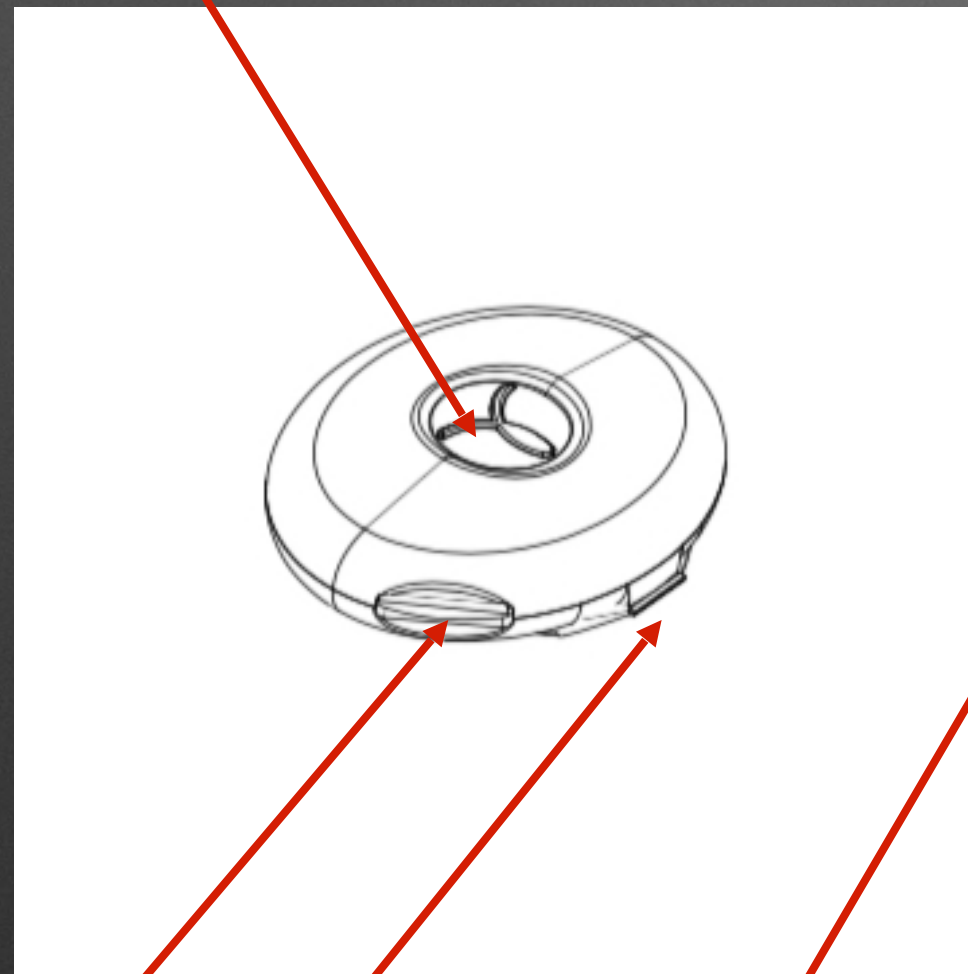
Carrying Case
for maximum:
3 Crickets[®]
2 USB plugs

4 Patches

Pro Tip: Do not discard the box. You can remove and store the packaging insert and use the box to store extra sensors, accessories, etc.

Physical Features

Button + LED



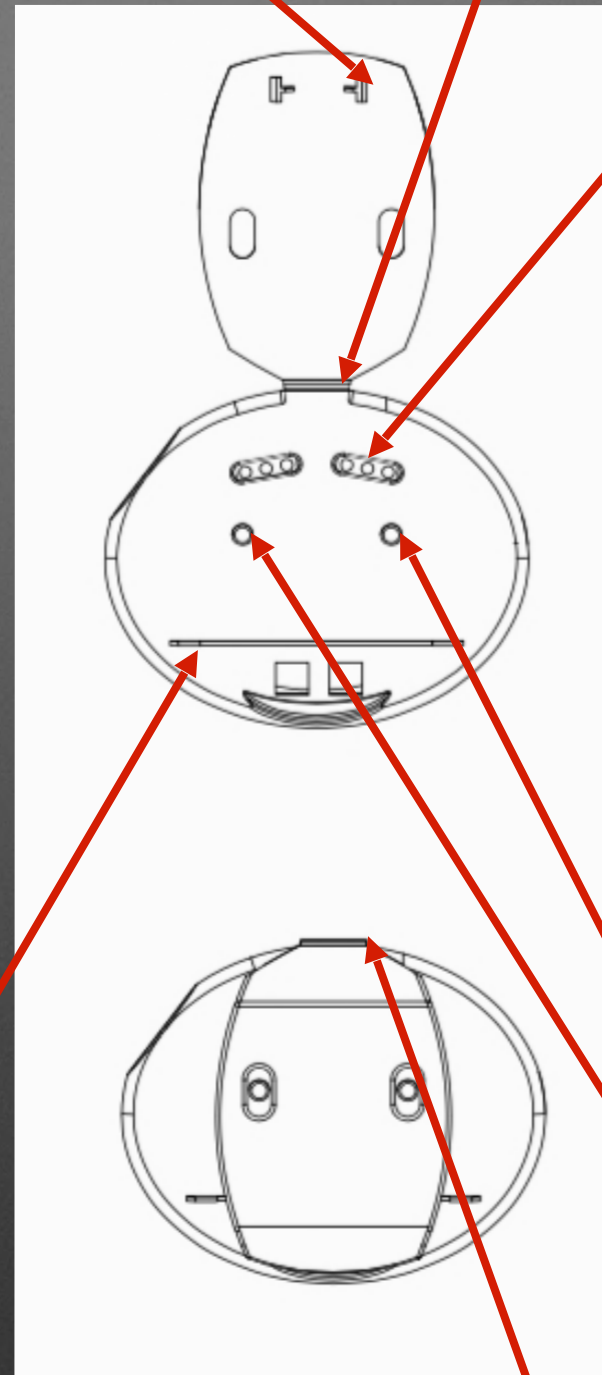
Hinge

USB Micro "B" 2.0 & 3.0

Clasp / Lock

Hinge

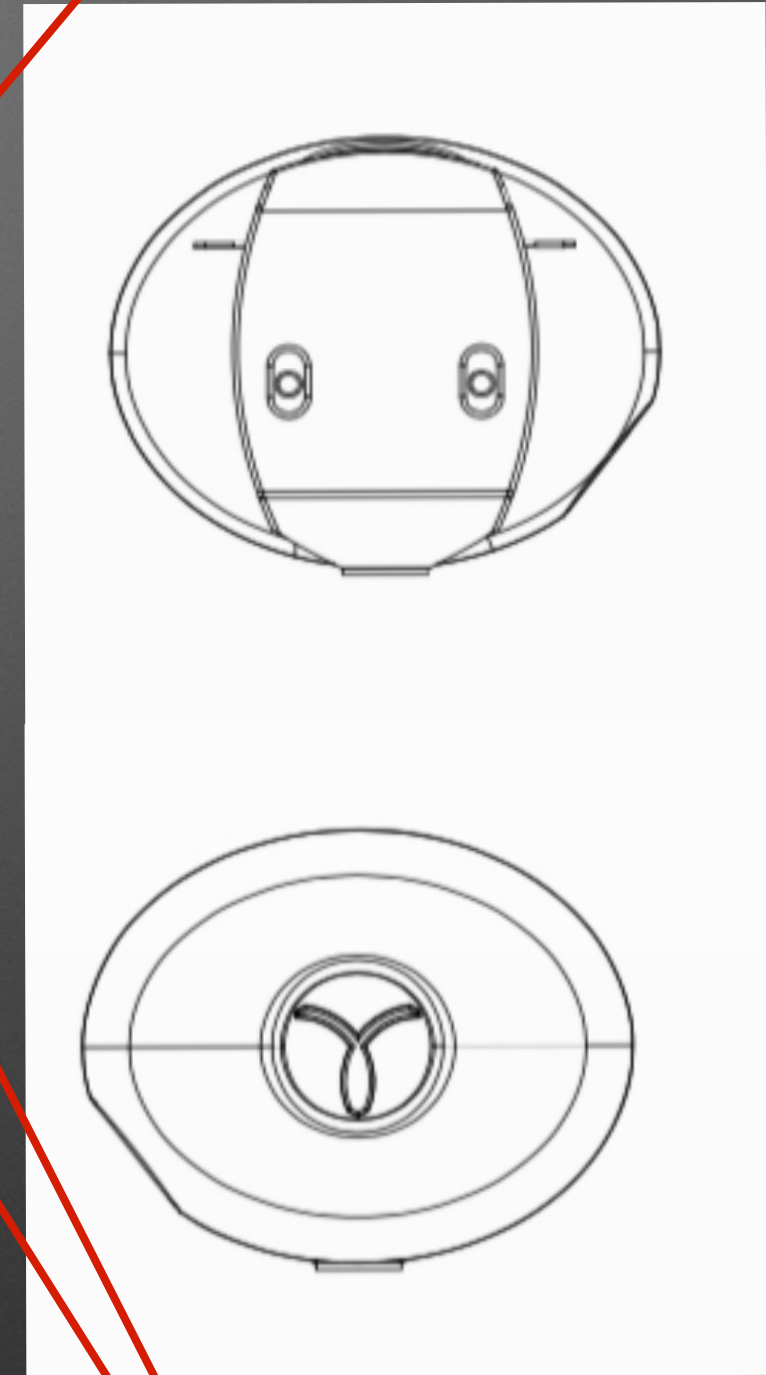
Gold Pins



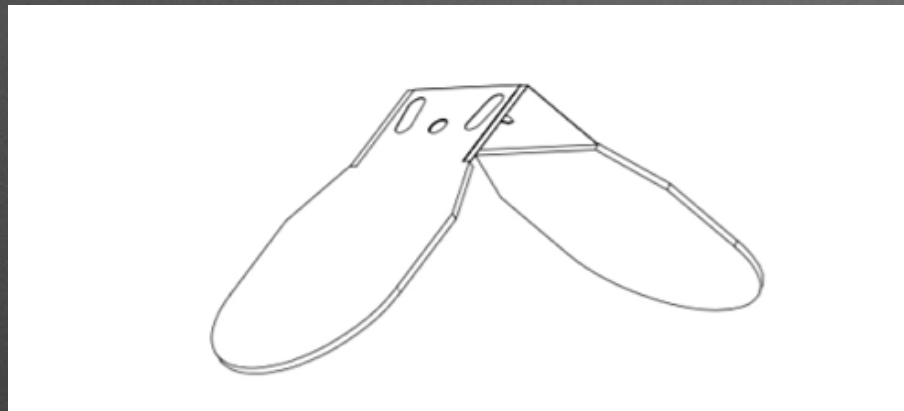
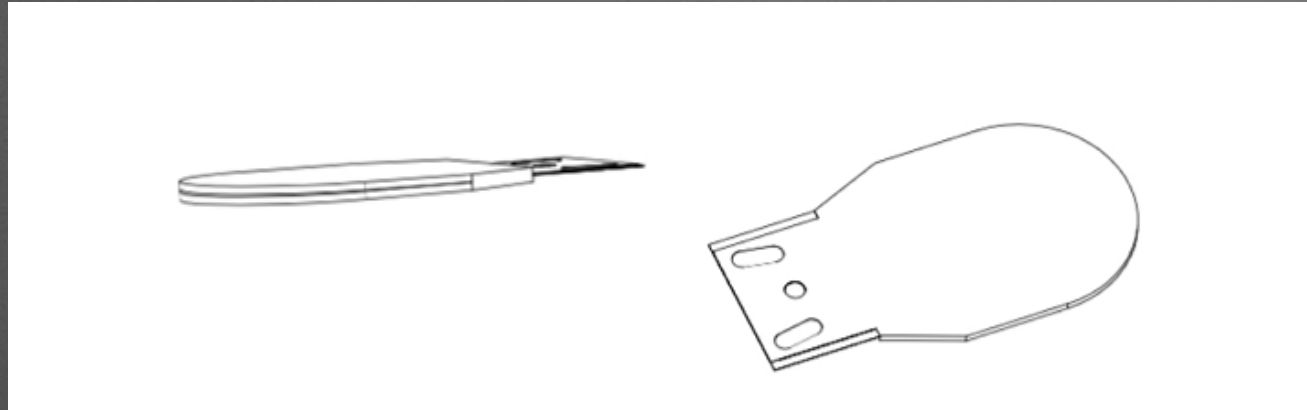
Guiding line for patch

Hinge

Guiding Nubs



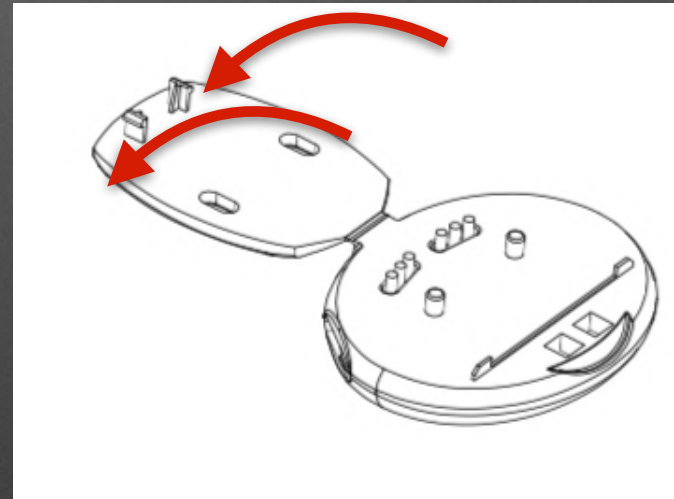
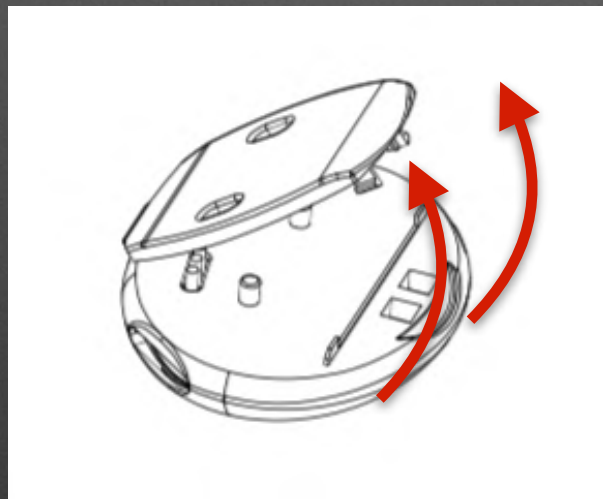
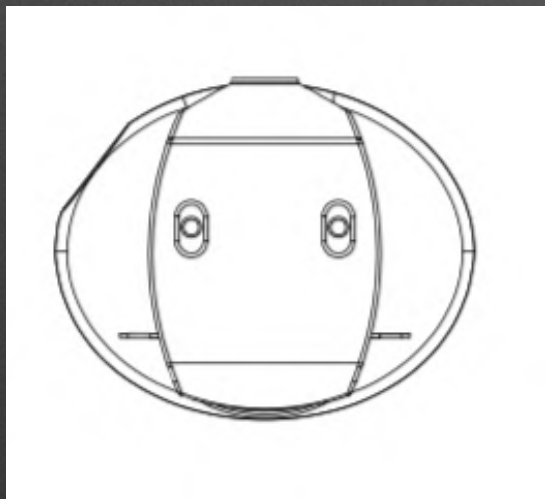
Patches



1. Remove from bag
2. Separate from backing to unfold
3. Sticky side faces skin

Load a Patch:

First, open the hinge...



1: Flip the Cricket[®] over

2: Use your fingernail to open the hinged piece

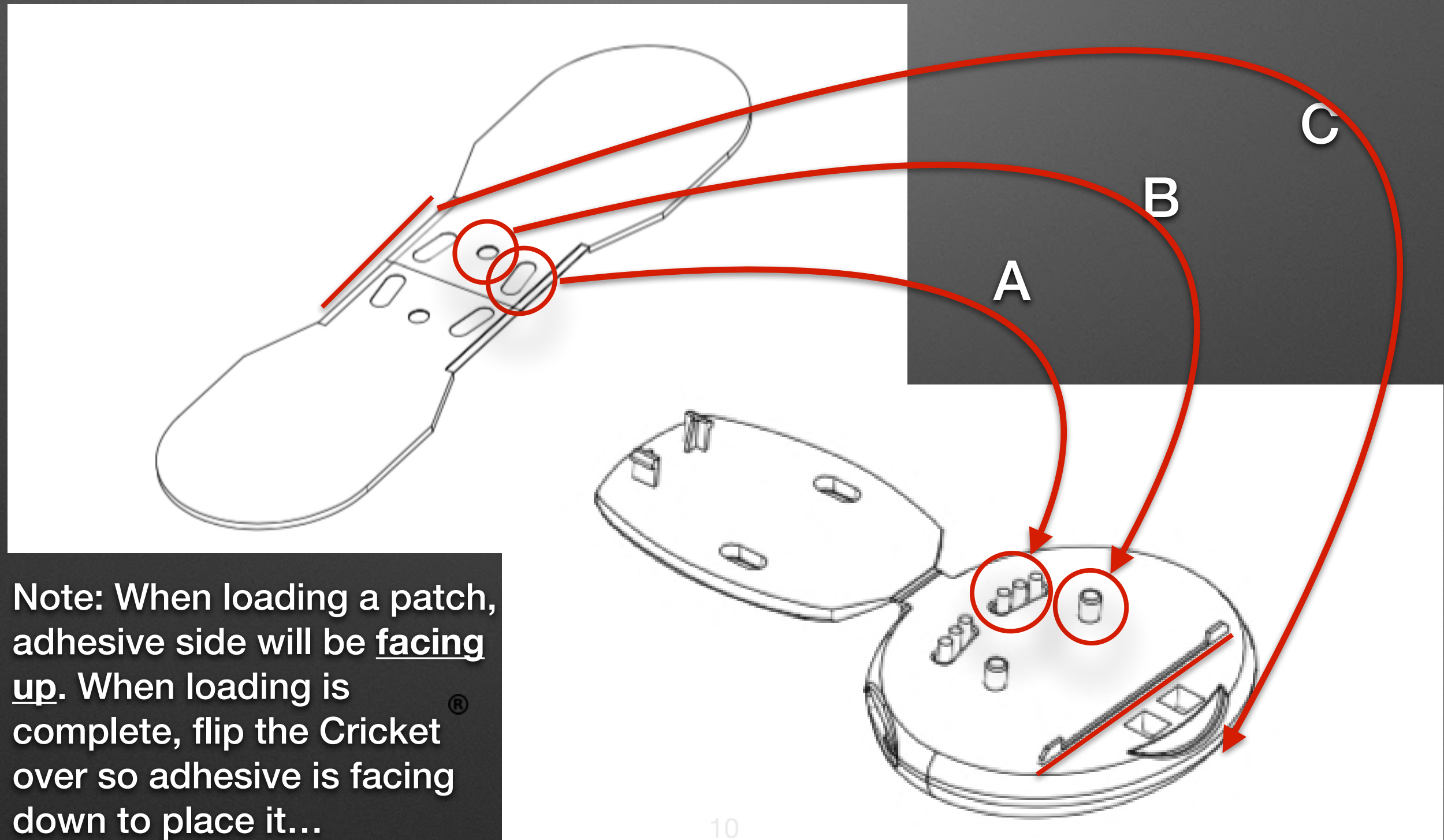
3: Insert patch

Line up:

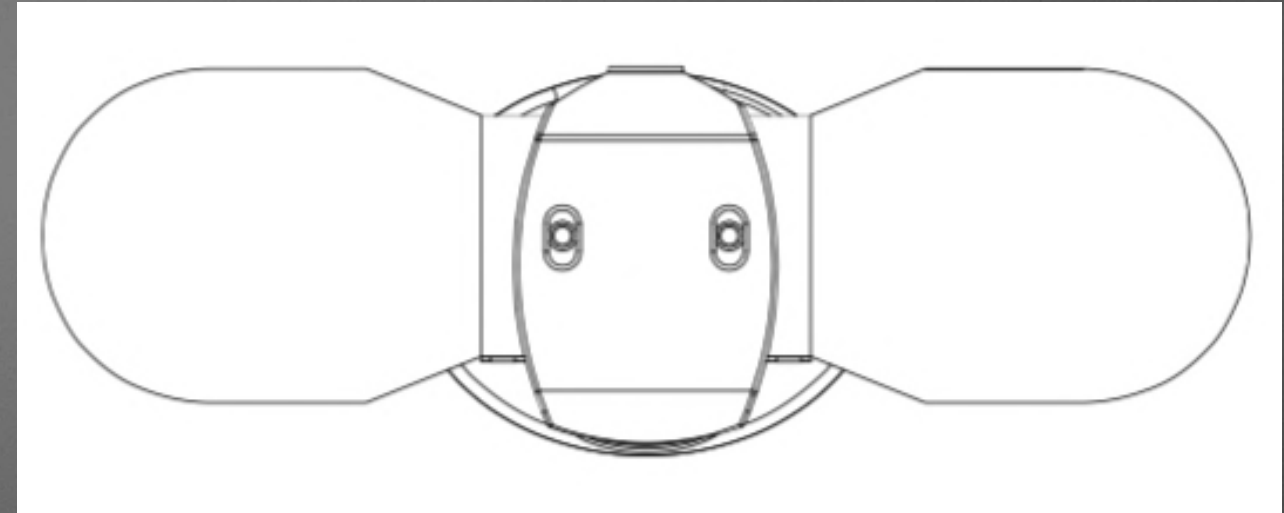
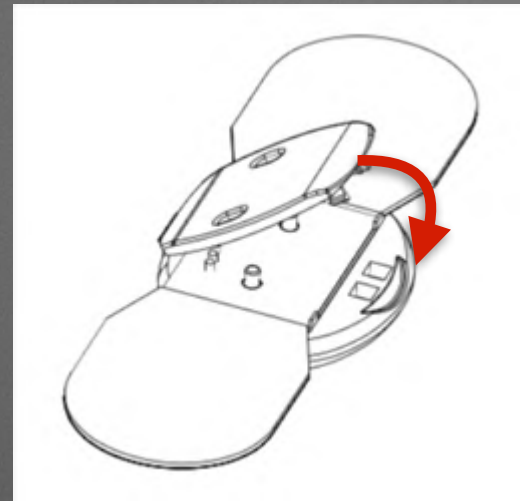
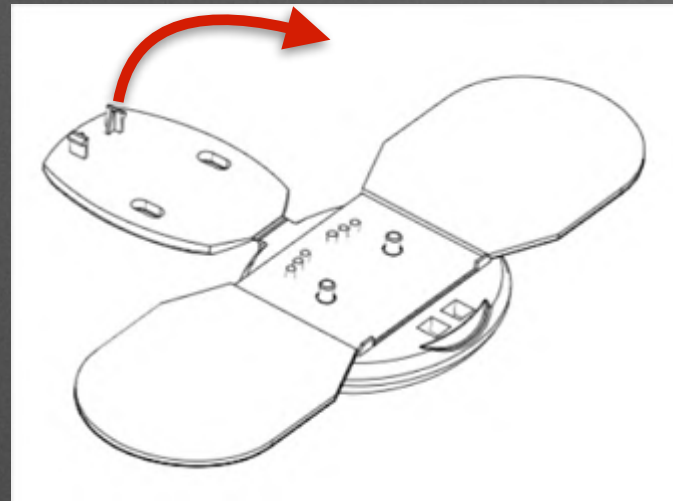
A. Black ovals **FACING** gold pins

B. Round holes + black guiding nubs

C. Bottom of patch with guiding line



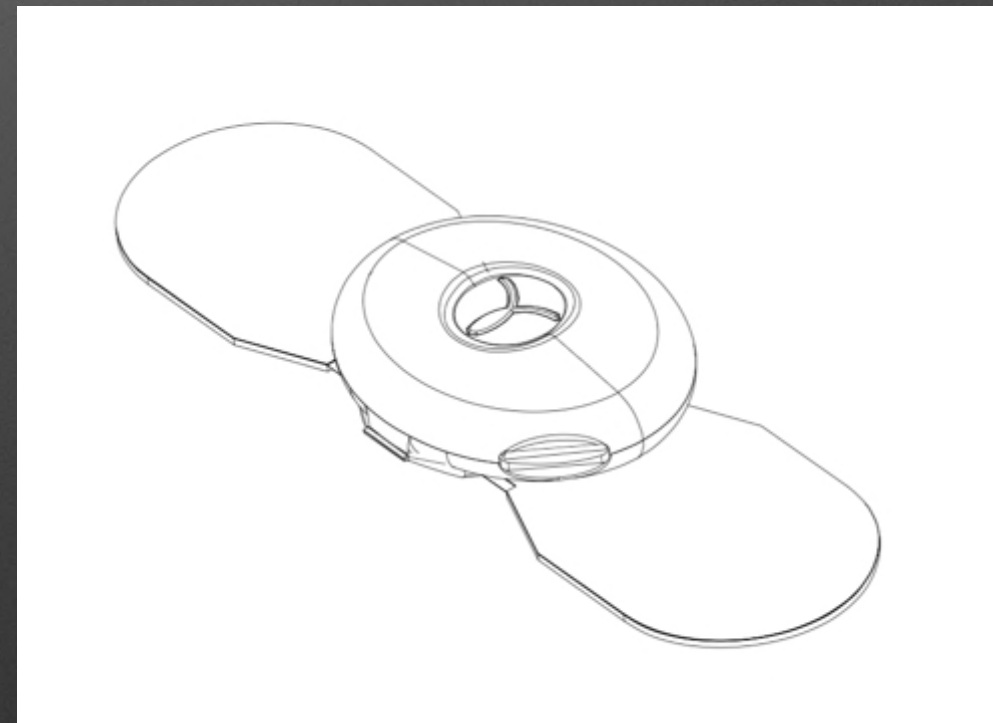
Note: When loading a patch, adhesive side will be facing up. When loading is complete, flip the Cricket[®] over so adhesive is facing down to place it...



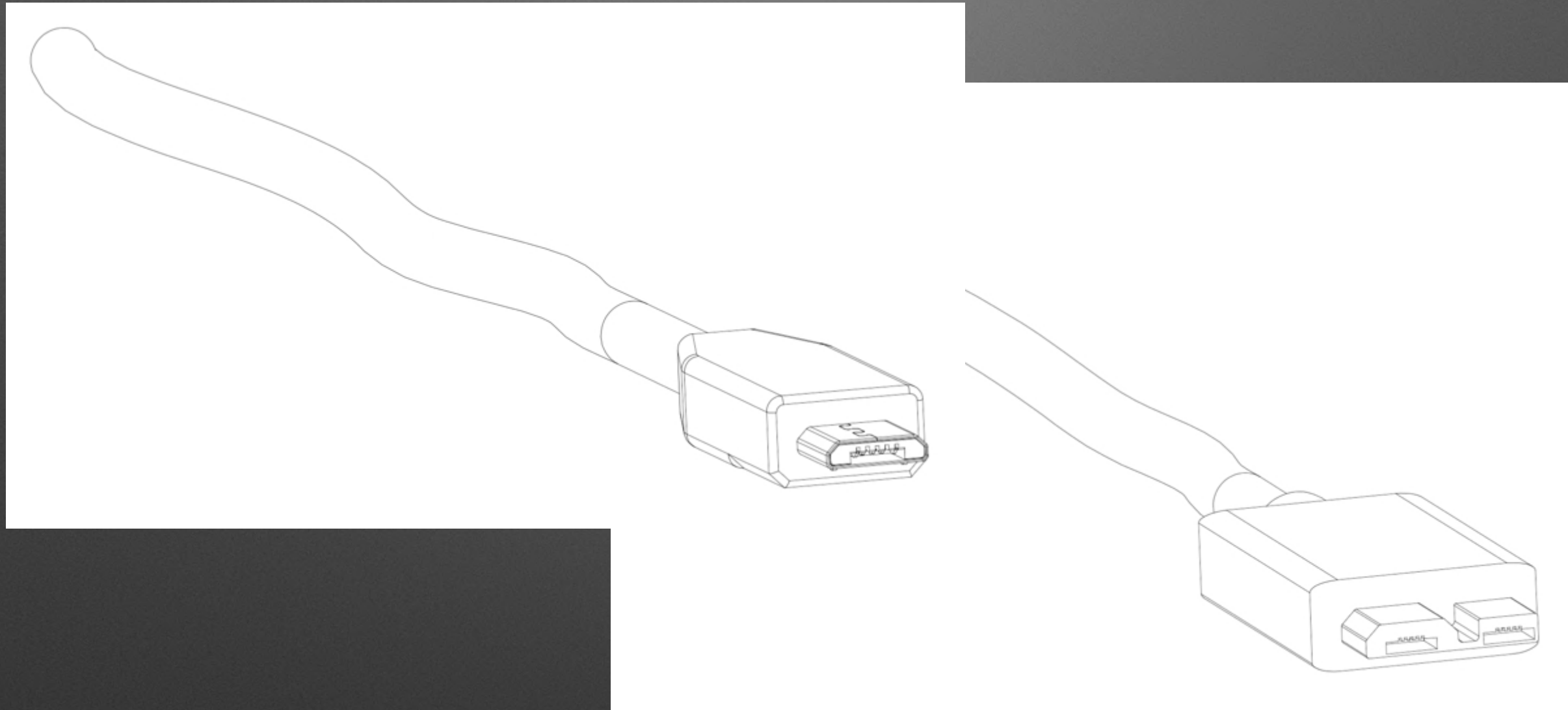
4: Close the lid until it clicks and locks in.

5: Remove any backing still present on the Patch

6: Apply Cricket[®] + Patch to body (see recommended placements at somaxis.com/placements)



Charging & Data Synch



USB Micro “B”
2.0 or 3.0 are both ok

Safe Usage Limits & Operating Thresholds

1. Temperature:
 - A. 0°C - 40°C
 - B. 32°F - 105°F
2. Humidity: 0 - 90%
3. Elevation: 0 - 2 miles
4. Impacts: 0 - 16g
5. Battery: 1000 cycles
6. Hinge: 1000 cycles
7. Patch: 1 use; 24 hours max

Cricket is not certified for use as a lifesaving medical device. It should not be used to diagnose or treat medical conditions. It should not be used in place of medical advice. If you have any health concerns, speak with your primary care physician... and mention the Cricket to her - she may request that you share your data with her.

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.

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

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 for help.

RF exposure warning:

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Technical Specifications

1. EXG (memory mode, solo): 8000 s/s, 24-bit ADC, Gain 1x - 12x, Noise<3uV P-P
2. EXG (memory mode, +Gyr): 8000 s/s, 24-bit ADC, Gain 1x - 12x, Noise<3uV P-P
3. EXG (bluetooth mode, solo): 1,800 s/s, 24-bit ADC, Gain 1x - 12x, Noise<3uV P-P
4. EXG (bluetooth mode, +Gyr): 1,000 s/s, 24-bit ADC, Gain 1x - 12x, Noise<3uV P-P
5. Gyro 6-axis (memory mode, solo): 1,250 s/s, 16-bit ADC
6. Gyro 6-axis (memory mode, +EXG): 1,250 s/s, 16-bit ADC
7. Gyro 6-axis (bluetooth mode, solo): 300 s/s, 16-bit ADC
8. Gyro 6-axis (bluetooth mode, +EXG): 100 s/s, 16-bit ADC
9. Memory: 100 Megabits (usage time varies depending on mode)
10. Radio: Bluetooth LE (Bluetooth 4.0)
11. USB: Micro “B” 2.0 and 3.0 both supported;
 1. Supports USB battery charging
 2. Supports USB data synch
12. System Requirements:
 3. Cricket requires use of Patches as well as a USB Micro “B” 2.0 or 3.0 charger plug (both included with most starter kits).
 4. Cricket also requires use of Chirp or Halocline software clients to receive data;
 5. Chirp requires iOS 7.0+ running on iPhone, iPad mini, iPad, or iPod touch
 6. Halocline requires the use of any PC (Windows 7+) AND Bluetooth Dongle “Bluegiga BLED112”
 7. Halosphere is the integrated cloud service which connects to Chirp and Halocline and which processes and stores secure, encrypted data. Halosphere access requires the use of a web browser (Chrome, Firefox), and can be found at halosphere.somaxis.com
13. Battery: Internal lithium ion smart battery pack
14. Battery discharge time: About 5 days in “eco mode”, 10 hours in “realtime mode”
15. Charging time: 3 hours
16. Battery lifespan: 1000 cycles
17. Enclosure lifespan: 1000 cycles
18. Patch lifespan: 1 cycle (single use, 24 hours maximum duration; depending on oiliness of skin, amount of skin, and
19. Patch shelf-life: 2 years from packing date
20. Placement locations: Somaxis.com/placements

Testing & Licensing



Somaxis Electronics Tech Ltd.

Device Serial Number: _____

Model Number: Cricket_C001

FCC ID:2AHKFCRICKET2016DLE



Somaxis.com/licensing

Quick Start:

1. Download Chirp app from Apple's App Store
2. Turn on Cricket[®] (Press button / LED)
3. Run Chirp app
4. Press button / LED again if Cricket[®] falls asleep
5. Log into halosphere.somaxis.com to review your data and learn more about how to use your Chirp (iOS) and Halocline apps