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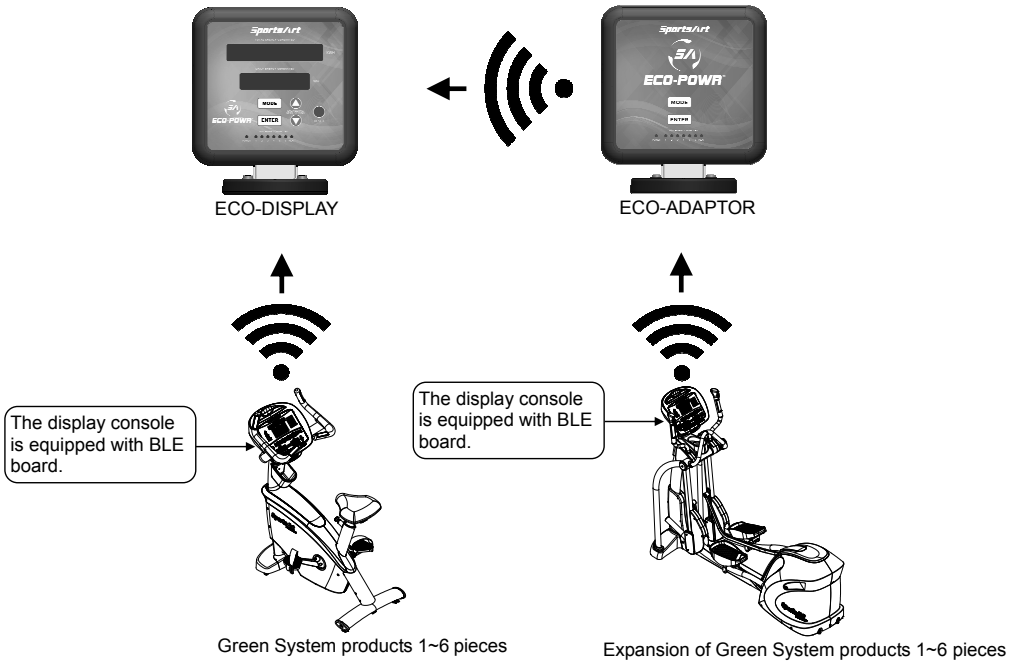
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*We reserve the right to revise this manual at any time without notice.

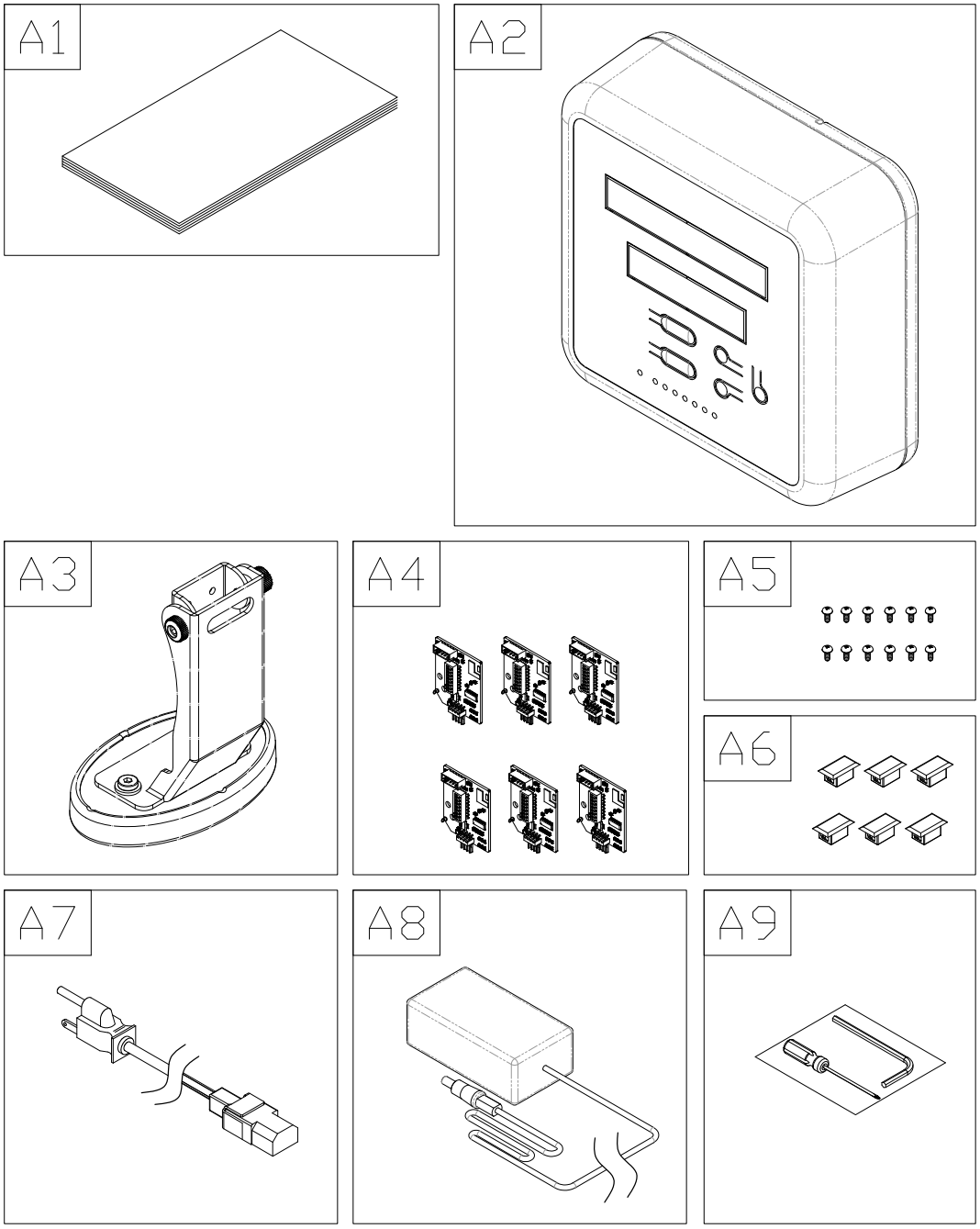
# 1. INTRODUCTION

ECO-DISPLAY is designed specifically for SportsArt ECO-POWR™ fitness product. It can record and display Total Energy Generated and Daily Energy Generated. A maximum of ECO-POWR™ fitness products per ECO-DISPLAY is six. For more than six products, please add ECO-ADAPTOR. Please familiarize yourself with this Owner's Manual and thereby get optimum enjoyment and benefit from this product.

## ECO-DISPLAY SYSTEM STRUCTURE



# 2. LIST OF PARTS




| Assembly Parts | | | | | |
|---|---|---|---|---|---|
| **No.** | **Name** | **Qty.** | **No.** | **Name** | **Qty.** |
| A1 | Owner's manual | 1 | A6 | Hole Plug | 6 |
| A2 | ECO-DISPLAY | 1 | A7 | Power cord | 1 |
| A3 | Stand Base | 1 | A8 | Power adapter | 1 |
| A4 | BLE Device | 6 | A9 | Hardware kit | 1 |
| A5 | Phillips screw M4*L12 | 12 | | | |

# 3. ASSEMBLE THE PRODUCT

Follow instructions below to assemble this product. Note that in this manual the words “left” and “right” are used to refer to the product and its parts. As such, these designations correspond to the “left” and “right” sides of a person in position to exercise on this product. Also, for brevity, the word “screws” is used where screws, washers, and other hardware may be involved.

## STEP 1 Install the ECO-DISPLAY

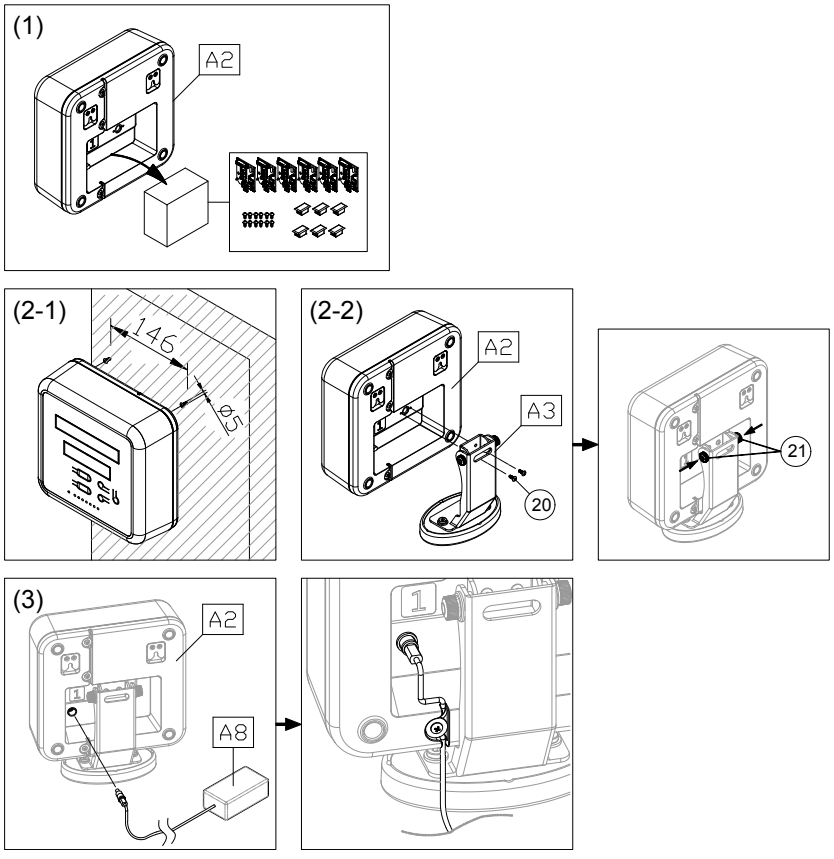
Please follow instructions (1) through (3) to install ECO-DISPLAY as desired.

(1) Take out the hardware kit as needed from the ECO-DISPLAY (A2).
*(Note: One Green System fitness product needs one BLE Device (A4), two Phillips screws (A5) and one Hole Plug (A6).)*

(2-1) Securing the ECO-DISPLAY to a wall
Using a bit, drill two holes in the wall where the ECO-DISPLAY will be installed. Make sure two holes are placed 146 mm apart. Make sure to use screws (n5) that are strong enough to support ECO-DISPLAY securely. (At least 5KG or above.)

(2-2) Mounting the ECO-DISPLAY on a table
Remove screws (20) from the ECO-DISPLAY (A2) and then secure the stand base (A3) to the ECO-DISPLAY (A2) with screws (20).
*(Note: Make sure tighten screws (21) to avoid the ECO-DISPLAY may flip over.)*

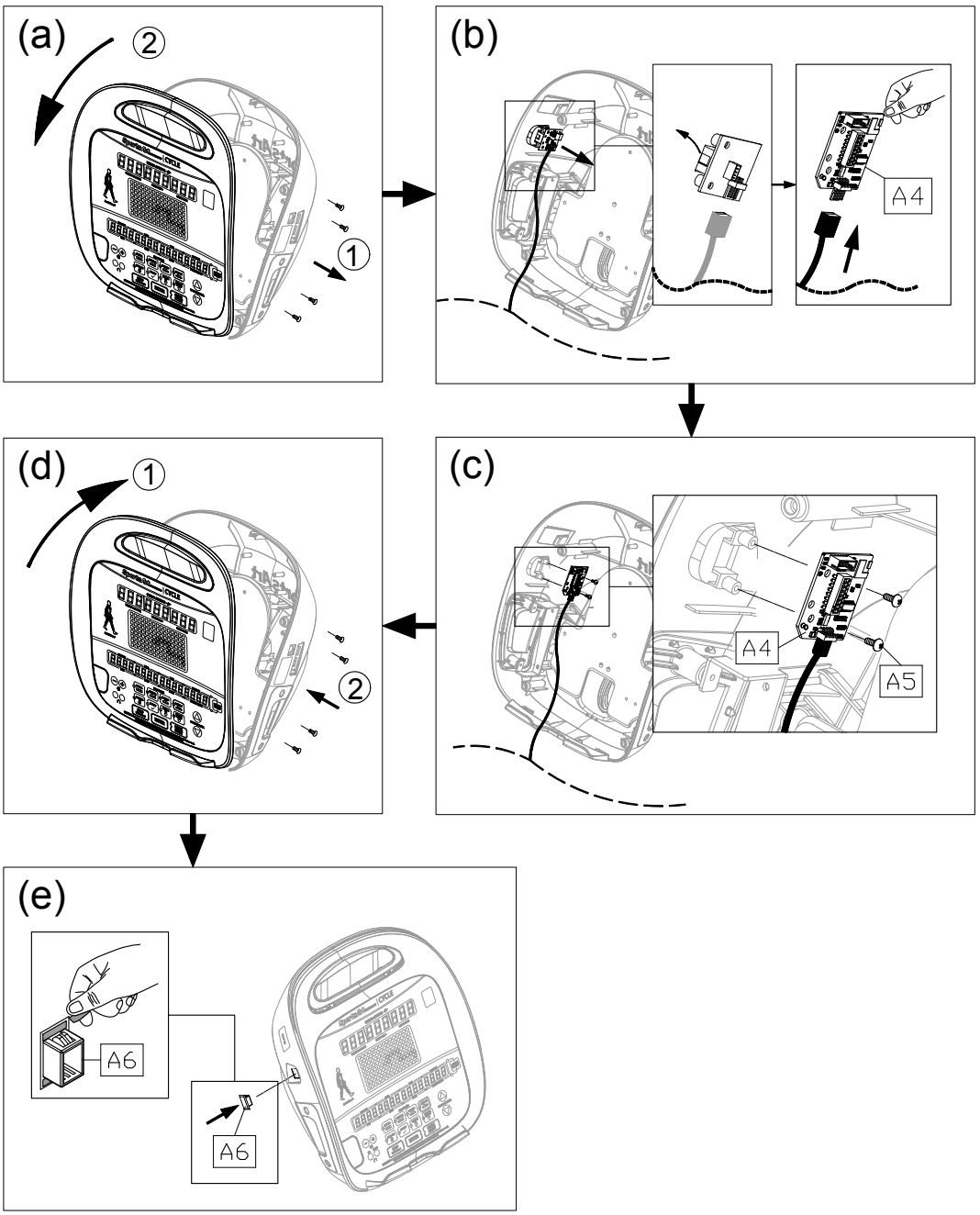
(3) After the installation is completed, insert the power adapter (A8) into place on the ECO-DISPLAY (A2) and then tuck the wire into place on the back of the ECO-DISPLAY.



## STEP 2 Install the BLE Device (For G545/G845/G575/G875)

(a) Remove screws holding the display covers together and then remove the display upper cover from the top.
(b) Remove the CSAFE board and insert the BLE Device (A4) instead as shown.
(c) Secure the BLE Device (A4) to the display lower cover with screws (A5) removed from the hardware kit as shown.
(d) Finally, place the display upper cover back into place and secure the covers together with previously removed screws.
(e) Peel off the double-side tape from the hole plug (A6) and insert it onto the place as shown.

*Note: All Green System fitness products are installed in the same position.*



## STEP 3 Install the BLE Device (For G510)

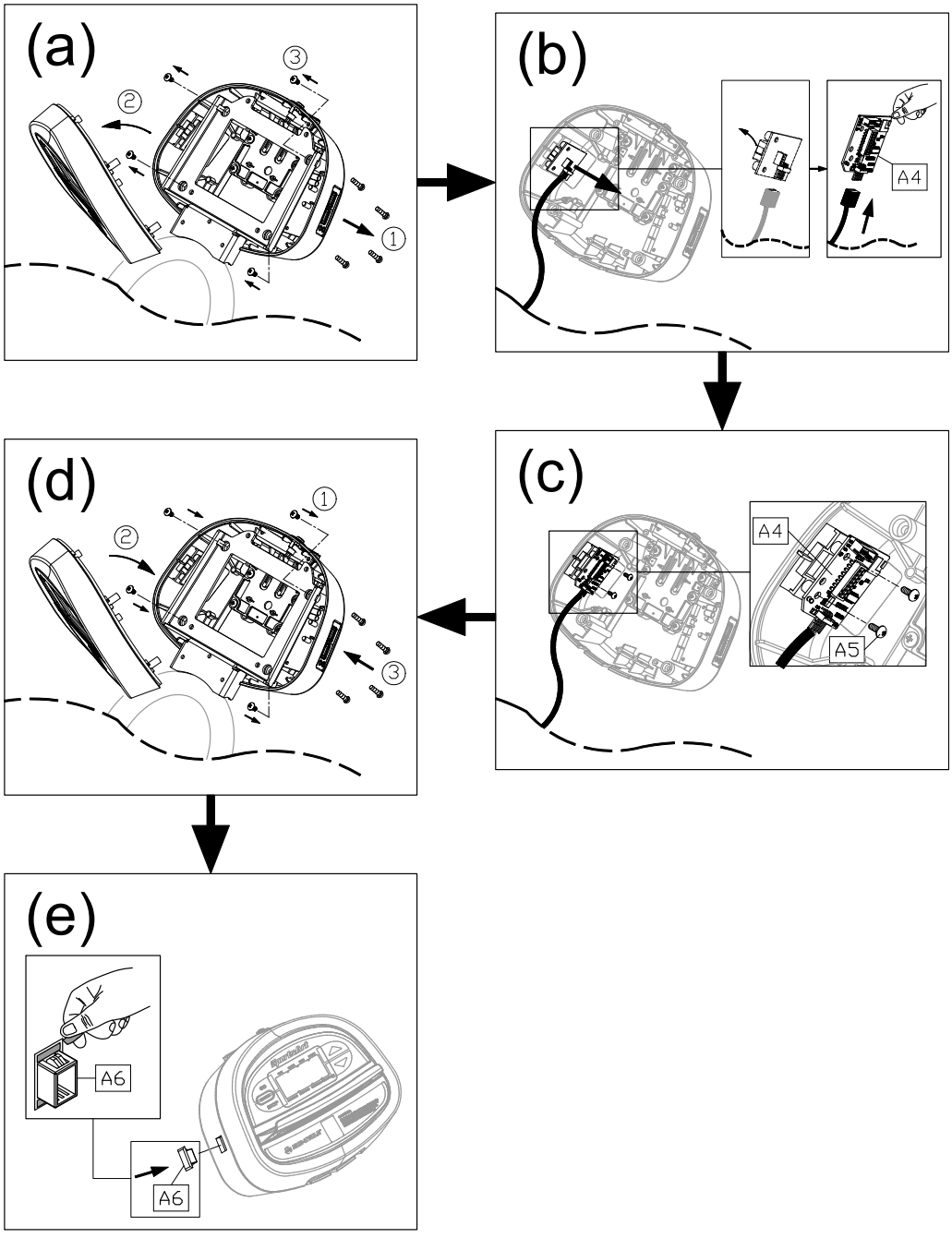
(a) Remove screws to remove the display upper cover and then remove screws holding the display lower cover and then remove the display lower cover.

(b) Remove the CSAFE board and insert the BLE Device (A4) instead as shown.

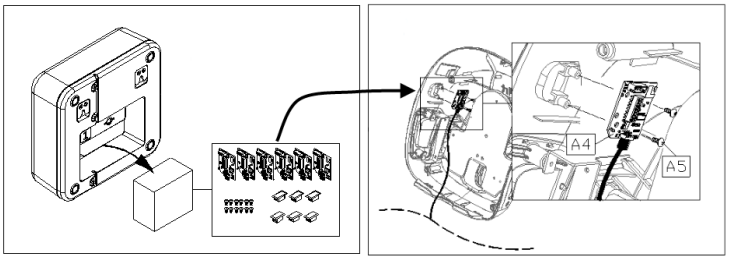
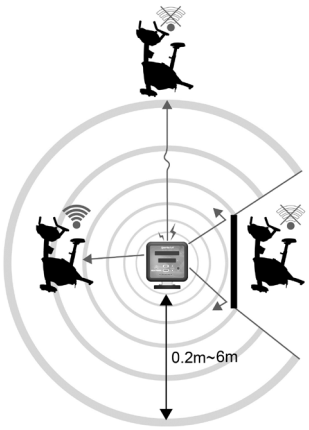
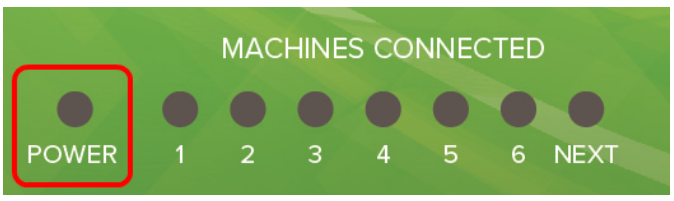
(c) Secure the BLE Device (A4) to the display lower cover with screws (A5) removed from the hardware kit as shown.

(d) Finally, place the display upper/lower cover back into place and secure the covers together with previously removed screws.

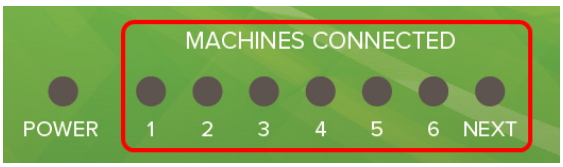
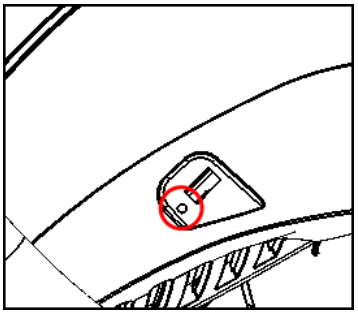
(e) Peel off the double-side tape from the hole plug (A6) and insert it onto the place as shown.



## STEP 4 Activation Checklist

| No. | Item | Confirmed |
|---|---|---|
| 1 | All assembly and adjustment tasks been completed according to the instruction manual.<br>Inspection Focus: Take out the BLE device board from the ECO-DISPLAY and secure it onto the display lower cover as below shown.<br> | Completed<br>☐ |
| 2 | All security locks, assembling screws and nuts are tightened securely. | Completed<br>☐ |
| 3 | Any abnormal damage to external appearance. | Completed<br>☐ |
| 4 | ECO-DISPLAY can typically communicate with exercise equipment located within a radius of 6 meters range without obstructions nearby.<br> | Completed<br>☐ |
| 5 | Please check if the machine operates properly.<br>Inspection Focus: Ensure the POWER LED indicator light up.<br> | Completed<br>☐ |

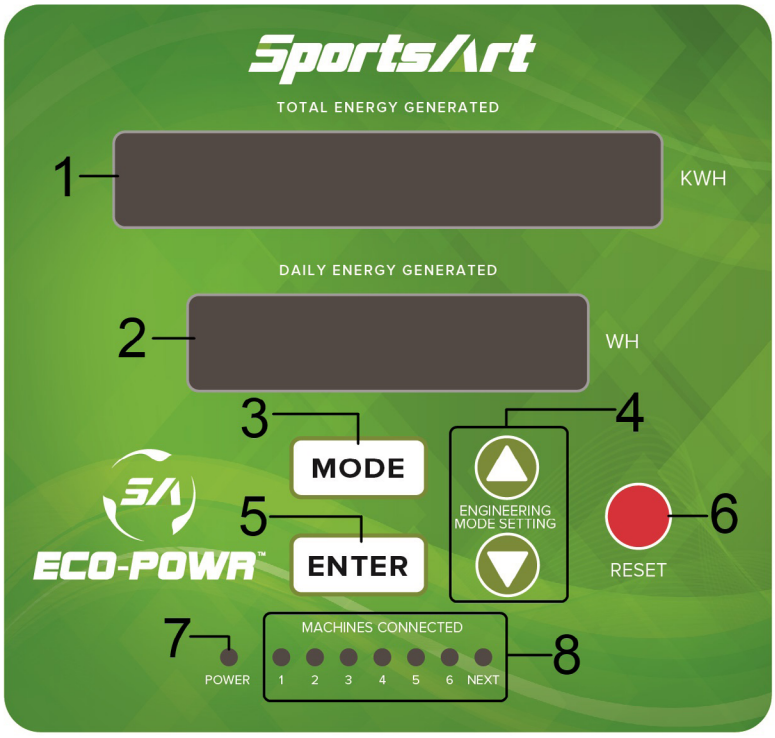
## STEP 4 Activation Checklist (Continued)

| No. | Item | Confirmed |
|---|---|---|
| 6 | Please check if the machine is worked with the latest version of software.<br>Inspection Focus: Upgrade your software to the latest version if necessary. Restart your machine after updating software.<br>G545/G845/G575/G875 Software version requirement: SA_5 - 4E or above.<br><br>G510 Software version requirement: G510 - 3A or above.<br> | Completed ☐ |
| 7 | Please check if the connection is working properly.<br>Inspection Focus: It associated LED indicator will light up, if the working properly.<br><br>MACHINES CONNECTED<br><br>BOOTLOAD | Completed ☐ |

# 4. OPERATE THE PRODUCT

While the ECO-DISPLAY and SportsArt ECO-POWR™ product are started, the ECO-DISPLAY will start to record and display the amount of energy that the SportsArt ECO-POWR™ product has generated within the usage period.

## OPERATION ECO-DISPLAY Information

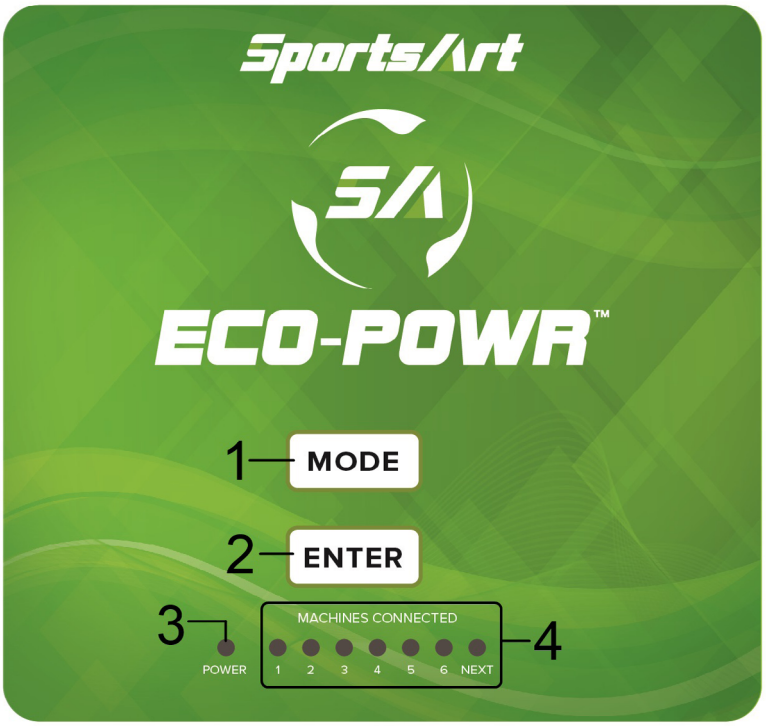



| No. | Name | Function |
|---|---|---|
| 1 | Total Energy Generated | Displays the grand total of energy that multiple ECO-POWR™ products have generated. This accumulated value will be stored in memory, it cannot be reset to zero. The default setting is 0 when the ECO-DISPLAY is started. The unit of measure is KWh (kilowatt hour). |
| 2 | Daily Energy Generated | Displays energy that multiple SportsArt ECO-POWR™ products have generated per 24 hours. The unit of measure is Wh (watt hour).<br>(1) The default setting is 0 when the ECO-DISPLAY is started. This accumulated value will store in memory for 24 hours, it resets to zero each 24 hours.<br>(2) This accumulated value can also be reset manually. Press and hold the RESET key for 3 seconds to reset the accumulated value to zero and it will be reset to zero each 24 hours automatically. |

## OPERATION ECO-DISPLAY Information (Continued)

| No. | Name | Function |
|---|---|---|
| 3 | Mode | This function is for use by technicians. |
| 4 | The Engineering Mode Setting | This function is for use by technicians. |
| 5 | Enter | This function is for use by technicians. |
| 6 | Reset | Reset daily energy generated value to 0. |
| 7 | Power LED | LED lights to indicate power on. |
| 8 | Machines connected LEDs | LEDs light to indicate each machine is connected to ECO-DISPLAY with its corresponding number. NEXT LED lights to indicate ECO-ADAPTOR is connected to ECO-DISPLAY. |

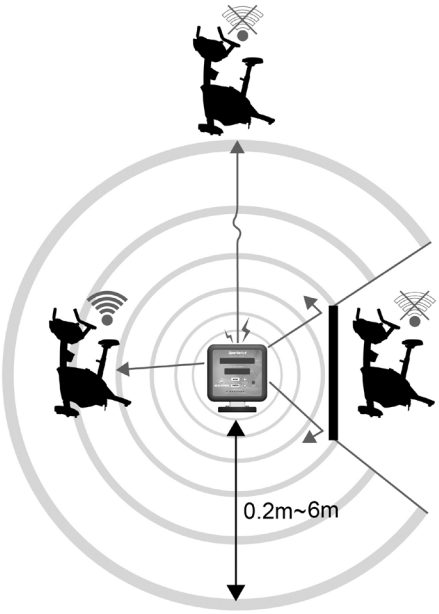
## OPERATION ECO-ADAPTOR Information




| No. | Name | Function |
|---|---|---|
| 1 | Mode | This function is for use by technicians. |
| 2 | Enter | This function is for use by technicians. |
| 3 | Power LED | LED lights to indicate power on. |
| 4 | Machines connected LEDs | LEDs light to indicate each machine is connected to ECO-DISPLAY with its corresponding number. NEXT LED lights to indicate ECO-ADAPTOR is connected to the next ECO-ADAPTOR. |

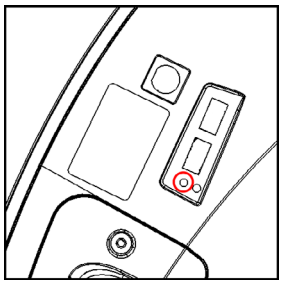
## OPERATION ECO-DISPLAY Coverage Area

ECO-DISPLAY can typically communicate with exercise equipment located within a radius of 6 meters range without obstructions nearby.

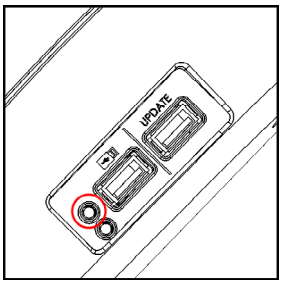



**Caution**

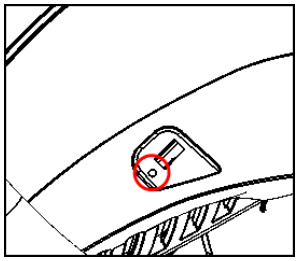
1. The building of the space affects wireless communication range and signal strength. Make sure the distance is less than a radius of 6 meters range. Shorten the distance, when the connection is not available.
2. The coverage area of ECO-ADAPTOR is same as ECO-DISPLAY.
3. G545/G845/G575/G875 Software version requirement: SA_5 - 4E or above.
4. G510 Software version requirement: G510 - 3A or above.
5. BOOTLOAD LED lights to indicate the machine is connected to ECO-DISPLAY. For the location of BOOTLOAD LED, please see below shown.

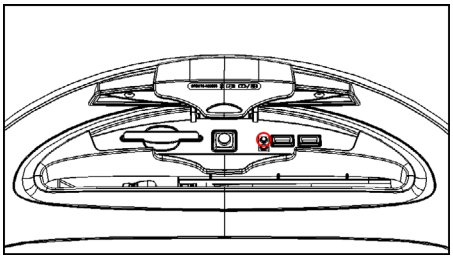


**G545/G845**




**G510**





**G575/G875**

## OPERATION ECO Display Information and Settings

ECO Display information and setting allow you to change default settings and review some historical data of this product. To access machine information and settings, press and hold the MODE key for 3 seconds.
*Note: ECO-ADAPTOR cannot access information and settings.*

Machine Information and Settings:

**(1) ECO-DISPLAY Version**

Total Energy Generated window will appear as “ECO1-XX” and Daily Energy Generate window will appear as “XXXXX”, where XX represent a version and XXXXX represent a date.
Press the ENTER key to view the BLE device (1-H1) version.

**(2) BLE device (1-H1) Version**

Total Energy Generated window will appear as “1-H1 : XX”, where XX represent a version.
Press the ENTER key to view the BLE device (1-H2) version.

**(3) BLE device (1-H2) Version**

Total Energy Generated window will appear as “1-H2 : XX”, where XX represent a version.
Press the ENTER key to view the ECO-ADAPTOR version.

**(4) ECO-ADAPTOR Version**

Total Energy Generated window will appear as “ECO2-XX” and Daily Energy Generate window will appear as “XXXXX”, where XX represent a version and XXXXX represent a date. If there is no ECO-ADAPTOR, where “XX” and “XXXXX” represent 00.
Press the ENTER key to view the Beep Sound Settings.

**(5) Beep Sound Settings**

Press the ▲/▼ keys to change the settings.
Press the ENTER key to make your selection and then to view the BONDEDLIST.

**(6) BONDEDLIST**

Total Energy Generated window will appear as “BLE LIST” and Daily Energy Generate window will appear as “X Y”, where X represent the connected quantity of 1-H1 and Y represent the connected quantity of 1-H2 . (Default setting X= 3, Y= 4). Press the ENTER key to exit.

## OPERATION Machine Information and Settings

**Note:**
The information of BLE ID and VERSION will be available when the BLE Device board is installed.

**ECO-POWR™ Cycles**
Machine information and settings allow you to change default settings and review some historical data of this product. To access machine information and settings, press the CHANGE DISPLAY key for 2 seconds.

Machine Information and Settings:
**(1) TOTAL DISTANCE**
Total distance will appear as “DIST - xxxxxx MILE or DIST - xxxxxx KM”.
Press the ENTER key to review total time.

**(2) TOTAL TIME**
Total time will appear as “TIME - xxxxxx HOUR”.
Press the ENTER key to review total energy produced.

**(3) TOTAL ENERGY PRODUCED**
Total energy produced will appear as “WATTS - XXXX.XX KWH”. Note that the units of measure are kilowatt hours.
Press the ENTER key to review the product serial number of this product.

**(4) PRODUCT SERIAL NUMBER**
The product serial number will appear as “S/N - xxxxxxx”.
Press the ENTER key to view the display program version.

**(5) DISPLAY PROGRAM VERSION**
Display program version will appear as “CTL SA_5 - xx”.
Press the ENTER key to review the micro inverter drive board version.

**(6) MICRO INVERTER DRIVE BOARD VERSION**
Micro Inverter drive board version will appear as “DRV MI-xx-yyyy”.
Press the ENTER key to review the drive board version.

**(7) BLE ID and VERSION** (Available with optional BLE Device.)
Exercise feedback window will appear as “BLE_Dev_Ver : xx”.
The Heart Rate window will appear the BLE ID as ”x-x”.
Press the ENTER key to exit the machine information and settings and return to Banner page.

You may press and hold the STOP key at any time to end the settings or finish the review and return to Banner page.

## OPERATION Machine Information& Settings (Continued)

**ECO-POWR™ Ellipticals**

Machine information and settings allow you to change default settings and review some historical data of this product. To access machine information and settings, press the CHANGE DISPLAY key for 2 seconds.

Machine Information and Settings:

**(1) TOTAL DISTANCE**

Total distance will appear as “DIST - xxxxxx MILE or DIST - xxxxxx KM”.
Press the ENTER key to review total time.

**(2) TOTAL TIME**

Total time will appear as “TIME - xxxxxx HOUR”.
Press the ENTER key to review total energy produced.

**(3) TOTAL ENERGY PRODUCED**

Total energy produced will appear as “WATTS - XXXX.XX KWH”. Note that the units of measure are kilowatt hours.
Press the ENTER key to review the product serial number of this product.

**(4) PRODUCT SERIAL NUMBER**

The product serial number will appear as “S/N - xxxxxxx”.
Press the ENTER key to view the display program version.

**(5) DISPLAY PROGRAM VERSION**

Display program version will appear as “CTL SA_5 - xx”.
Press the ENTER key to review the micro inverter drive board version.

**(6) MICRO INVERTER DRIVE BOARD VERSION**

Micro Inverter drive board version will appear as “DRV MI-xx-yyyy”.
Press the ENTER key to review the drive board version.

**(7) DRIVE BOARD VERSION**

The drive board version will appear as “GE_INCL - XX”;
Press the ENTER key to view the BLE ID version.

**(8) BLE ID and VERSION** (Available with optional BLE Device.)

Exercise feedback window will appear as “BLE_Dev_Ver : xx”.
The Heart Rate window will appear the BLE ID as ”x-x”.
Press the ENTER key to exit the machine information and settings and return to Banner page.

You may press and hold the STOP key at any time to end the settings or finish the review and return to Banner page.

## OPERATION Machine Information & Settings (Continued)

**ECO-POWR™ G510**

Machine information and settings allow you to change default settings and review some historical data of this product. To access machine information and settings, press the ENTER key for 3 seconds.

**Machine Information and Settings:**

**(1) UNITS**

The default unit is English. The display will show “LB” for English and “KG” for Metric. Press ▲/▼ keys to toggle between the two settings. When your preference appears, press the ENTER key to make your selection and then view total distance.

**(2) TOTAL DISTANCE**

According to the speed unit setting, total distance will appear as either “DISTANCE – XXXXXX MILE” or “DISTANCE – XXXXXX KM”. Press the ENTER key to view total time.

**(3) TOTAL TIME**

Total time of use will appear as “TIME – XXXXXX HOUR”. Press the ENTER key to view total energy produced.

**(4) TOTAL ENERGY PRODUCED**

Total energy produced will appear as “ENERGY- XXXX.XX KWH”. Note that the units of measure are kilowatt hours. Press the ENTER key to proceed to view the display board version.

**(5) DISPLAY PROGRAM VERSION**

The display program version will appear as “CTL G510 – XX”, where XX represents either letters or numbers. Press the ENTER key to view the drive board program version.

**(6) DRIVE BOARD VERSION**

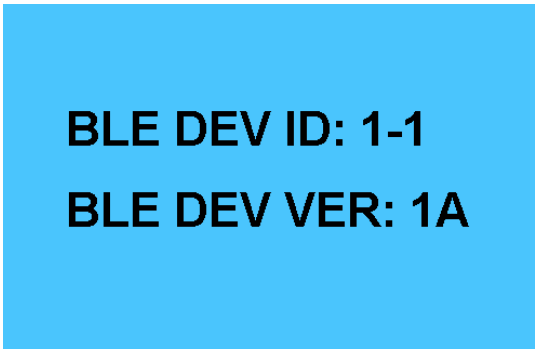
The drive board version will appear as “MI - xx-xxxx”;
Press the ENTER key to view the SA WELL+ board version.

**(7) SA WELL+ BOARD VERSION** (Available with optional SA WELL+)
SA WELL+ board version will appear as “SA WELL+ x.x.x x.x.x x.x.x”.
Press the ENTER key to view the product serial number.

**(8) PRODUCT SERIAL NUMBER**

The product serial number will appear as “S/N - xxxxxxx”.
Press the ENTER key to view the BLE ID version.

**(9) BLE ID and VERSION** (Available with optional BLE Device.)
The BLE ID and version will appear as below shown.



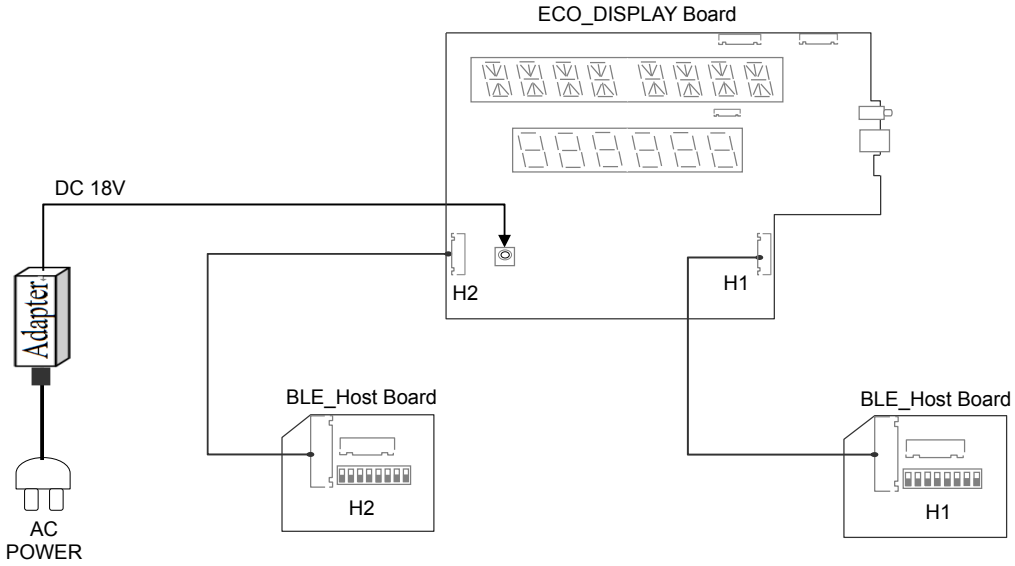

Press the ENTER key to exit the machine information and settings and return to Banner page.



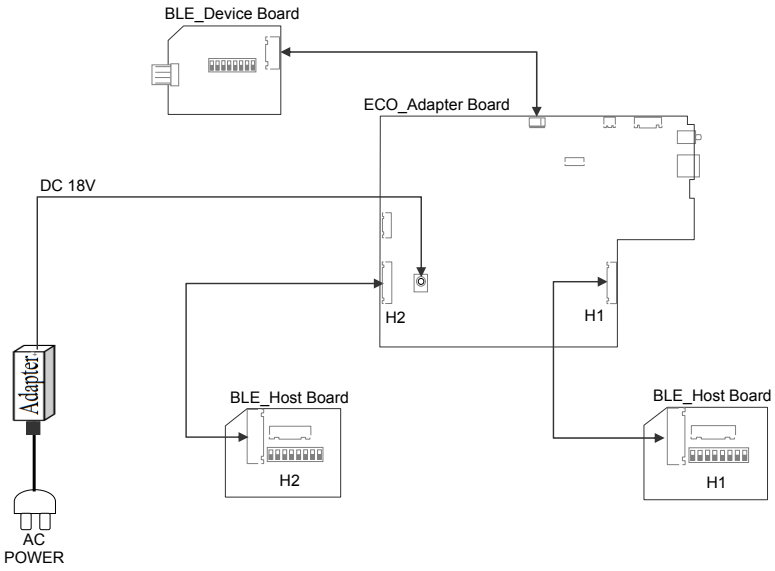

You may press and hold the STOP key at any time to end the settings or finish the review and return to Banner page.

# 5. BLOCK DIAGRAM

## ECO-DISPLAY

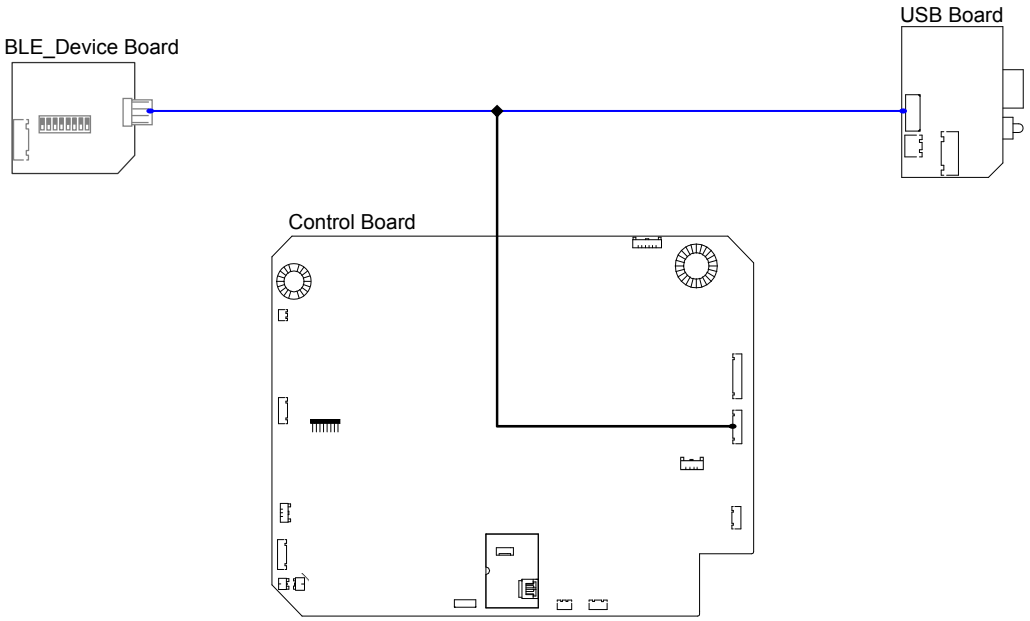



## ECO-ADAPTOR

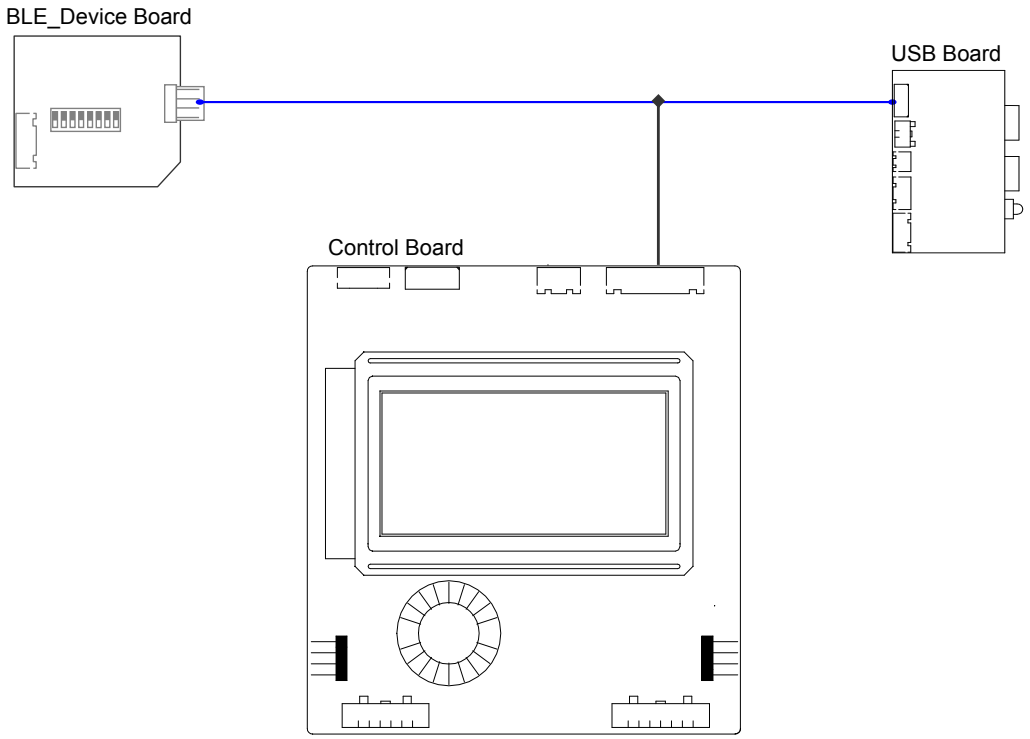


# BLOCK DIAGRAM (CONTINUED)

## G5X5/G8X5




## G510



**Your Authorized Distributor**