Welcome, and Thank You!

Thank you for purchasing this Brickstuff product. We hope you enjoy using it as much as we enjoyed creating it. The parts in this box are only part of our story, only part of what we're working hard to develop. Our goal is to create the most flexible and exciting line of hobby lighting and automation products for you to use in all of your fantastic creations. All of these products will work together, and you won't need to be an electronics expert to use them. So keep building amazing things—we'll help you bring them to life.

Thanks again for supporting us. We couldn't do this without you!

--- The Brickstuff Team
info@brickstuff.com

Pico LED Light Board Starter Kit

INSTRUCTIONS FOR USE

Carefully remove all parts from the included re-sealable anti-static bag:

- Eight Pico LED Boards with connecting cables

- Seven Adapter boards (3x BRANCH04 and 4x BRANCH03)

- Seven connecting cables and self-adhesive mounting squares

Depending on the specific kit purchased, there may also be a power supply in the box, or you may have purchased a kit without a power supply.

PLAN:

Use care in handling the boards as they are fragile. Be especially careful when bending the connecting cable attached to the light board— the wires are soldered to the board but can come unattached with repeated bending and/or pulling. Make sure the light board will fit into the mounting area. If precise positioning is needed, use the included self-adhesive squares to secure the light board. If mounting in a LEGO® creation, make sure to thread the plug through any stud holes before mounting (the plug will fit through stud holes but the light board will not). Make sure all wires can reach their connecting adapter board without putting tension on the wires. If you are mounting the light boards into a creation that moves or has moving/articulated parts, make sure there is enough slack in the cables to allow the build to freely move without putting tension on the wires.
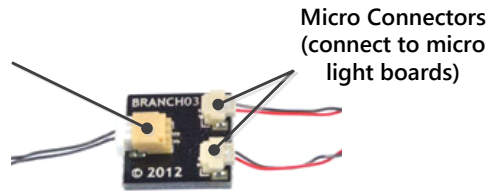
CONNECT:

Seven adapter boards are provided with this kit: the light boards have micro connectors which plug into the two micro plugs on the BRANCH03 adapter boards (micro connectors "click" into place when fully inserted). The larger connector on each BRANCH03 board connects either to another adapter board, an output on a Lighting Effect Controller, or to a power supply output. Use care when connecting plugs, as each will fit only one way. To remove micro plugs, pull gently while holding the red and black wire firmly.

> **WARNING: This product contains small parts and sharp parts. This product is not a toy. It is not intended for children under 13 years of age.**
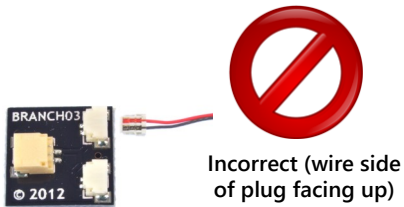
USAGE TIPS

Note that the cables included with this kit have two different size connectors: Pico LED Light Boards have micro connectors on the end of their attached connecting cable, and all other cables have standard-size connectors. **Do not try to insert a micro connector into a standard-size plug**— doing so may cause a short circuit and damage the parts in this kit, and could cause injury.
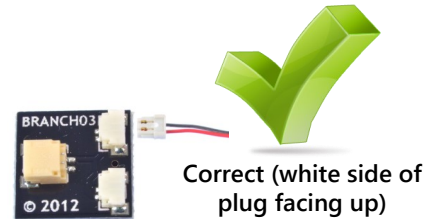
Large Connector (connect to other adapter boards, Lighting Effect Controllers, Power Supplies, or Battery Packs)

Micro Connectors (connect to micro light boards)

The BRANCH03 adapters in this kit are designed to convert the micro connectors to standard connectors. Make sure to insert the micro plugs into the correct connector on the BRANCH03 adapter board as shown in the photo above.

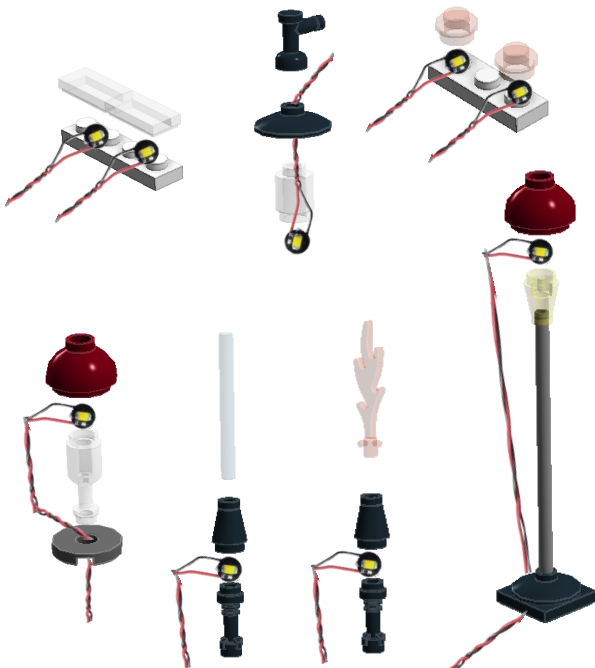Incorrect (wire side of plug facing up)

When inserting the micro plugs into the micro connectors, make sure to insert the right way (the plug will only fit one way). Note the appearance of the plug in the photos to the right. **Do not force!**
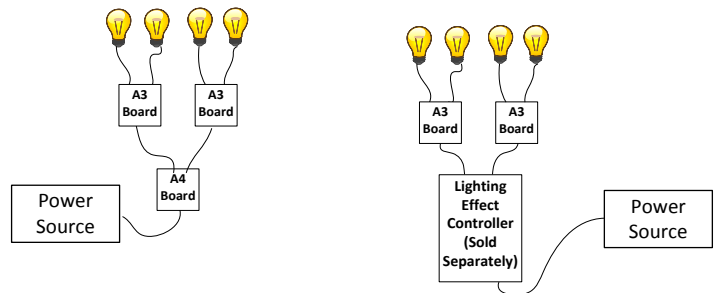
Correct (white side of plug facing up)

MOUNTING IDEAS

Pico LED Light Boards can be mounted just about anywhere. Because of their round shape, they will also fit inside round bricks. The wires are thin enough that LEGO® bricks, plates, or tiles can be snapped directly on top.

CONNECTING LIGHTS

Using a combination of BRANCH03 (A3) boards, BRANCH04 (A4) boards, and the connecting cables, you can connect your lights in many configurations— a 3xAA battery pack (if included with this kit) will power over 100 LEDs. Add a Lighting Effect Controller to make your lights flicker, flash, strobe, or pulse.

Use your imagination to add light to just about any LEGO® creation!