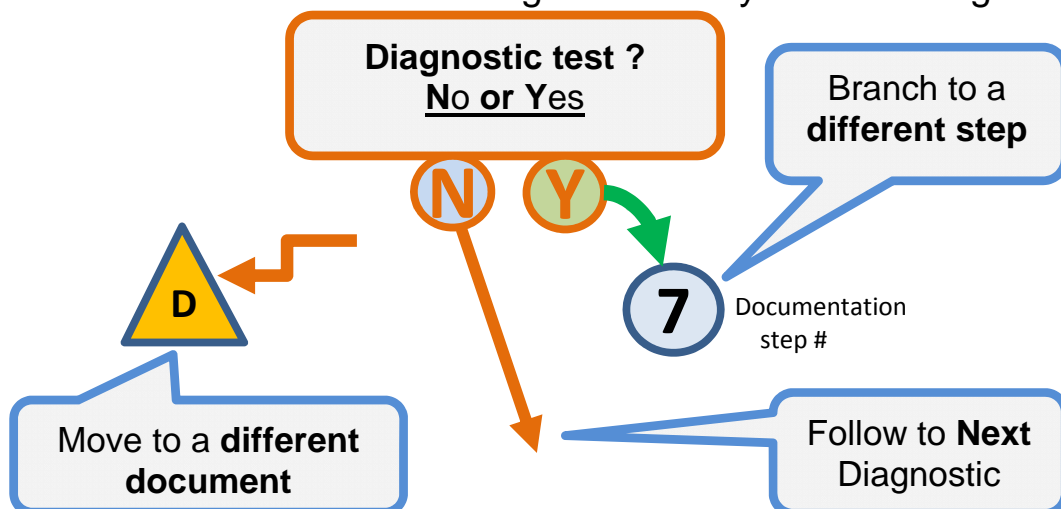# handibot ®
smart power tool

TROUBLESHOOTING
Hooking-Up and Linking

1 This document is intended to help solve **problems with hooking-up** to your Handibot.

Sample of how diagnostics work …

It is organized as a branching, diagnostic tree to help you work through the issue you are having.

Diagnostic test ?
No **or Y**es

N **Y**

Branch to a **different step**

7 Documentation step #

D

Move to a **different document**

Follow to **Next** Diagnostic

(2) There are **two** general sections:

- **Section A**. Problems <u>Hooking-Up in AP mode</u>; meaning, not being able to make the basic link to your tool from your device; or not able to get back to the basic AP link.

- **Section B**. Problems <u>Hooking-Up to your Network</u>; in this case, you are able to link to your tool in AP mode, but not able to get the tool to go onto your network.

* To diagnose Network problems **(B)**, bring up your Handibot in AP mode and jump to <u>Section B</u> of this document, page **(10)**

(3) <u>**Section A**</u>. Problems <u>Hooking-Up in AP mode</u>: not being able to make the basic link to your tool from your device; or not able to get back to the basic AP link.
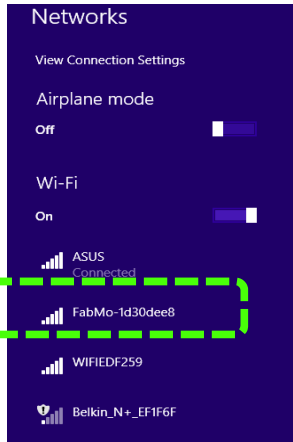
> **Preliminary Checks**
> - **Re-Power Your Tool:** Turning your Handibot OFF then ON will give all process a chance to re-start and clear; Wait 2 min to allow everything to shake out …
> - **Device Wireless(Wi-Fi):** Make sure your device's wireless system is turned on and enabled.

Ok, let's go to work on fixing that AP mode link …

4 Open your device's wireless manager. <u>Do you see your Handibot listed</u>?

N Y

Networks

View Connection Settings

Airplane mode
Off

Wi-Fi
On

ASUS
Connected

FabMo-1d30dee8

WIFIEDF259

Belkin_N+_EF1F6F

Hold **Green Button** on tool down for 8 sec. Wait 2 min & refresh WiFi Manager. <u>Does Tool Appear</u>?
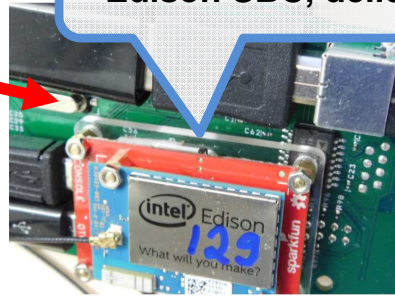
N Y

7

(skip to: **Open Dashboard**)

---

5 Let's try forcing an AP connection from the SBC.

*Small black button on Edison SBC, delicate

intel Edison
129
What will you make?

Press the black button on the Edison 3 times in 5 sec. Wait 2 min & refresh WiFi Manager. <u>Does Tool Appear</u>?
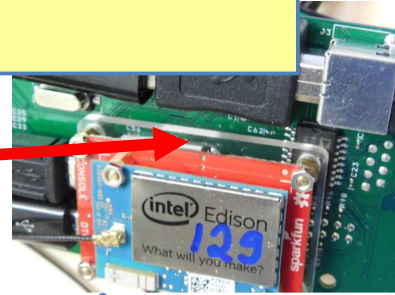
N Y

To access Edison:
  - (flat Edison mounting) remove clear electronics enclosure
  - (right-angle Edison mounting) remove clear electronics enclosure; and remove yellow rear-panel below it
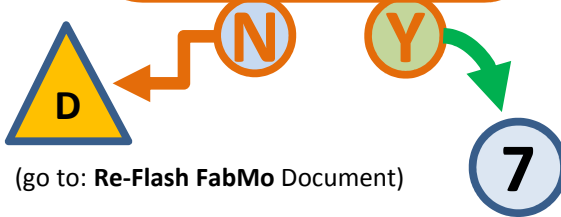
7

(skip to: **Open Dashboard**)

6

Where We're At:
- **Assuming there is no problem with your device,** it looks like the system on your FabMo Unit may have become corrupted.
- We'll try a **Factory Reset** of the Card to restore the unit to its original condition.

Press and hold the black button **on the Edison for 10 sec. Wait 2 min & refresh WiFi Manager. Does Tool Appear?**
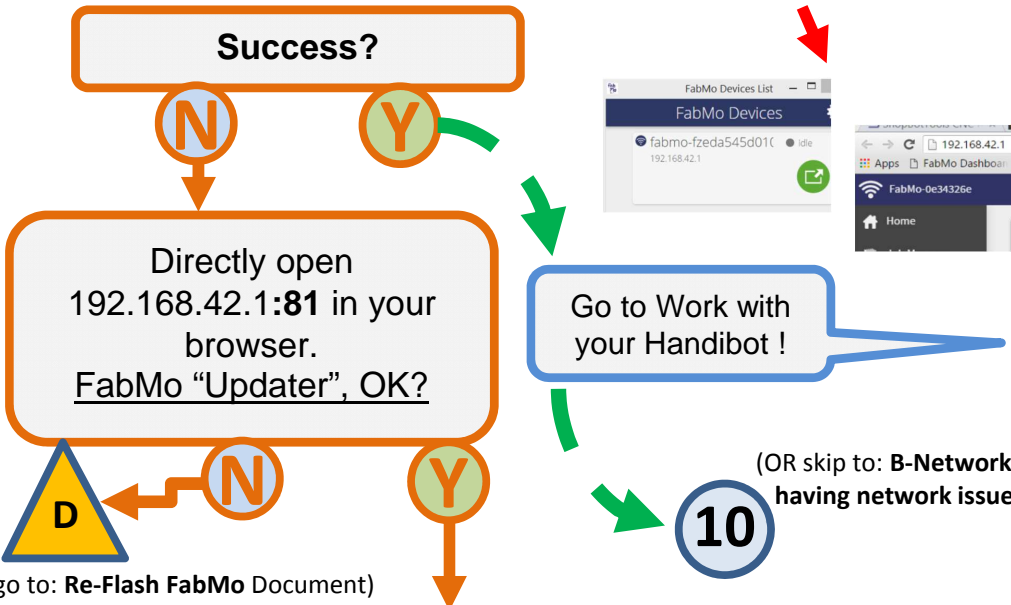

*Access the Edison as described in previous step

N → **D**

(go to: **Re-Flash FabMo** Document)
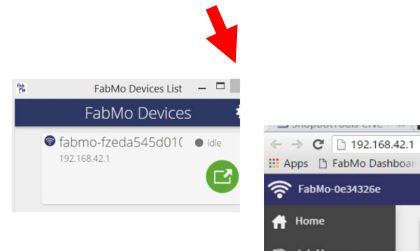
Y → **7** (skip to: **Open Dashboard**)

---

7 At this point, you are **able to see your Handibot** in the WiFi Manager of your device.

Open the Dashboard using your FabMo Minder or by going directly to 192.168.42.1 in your browser.

Success?

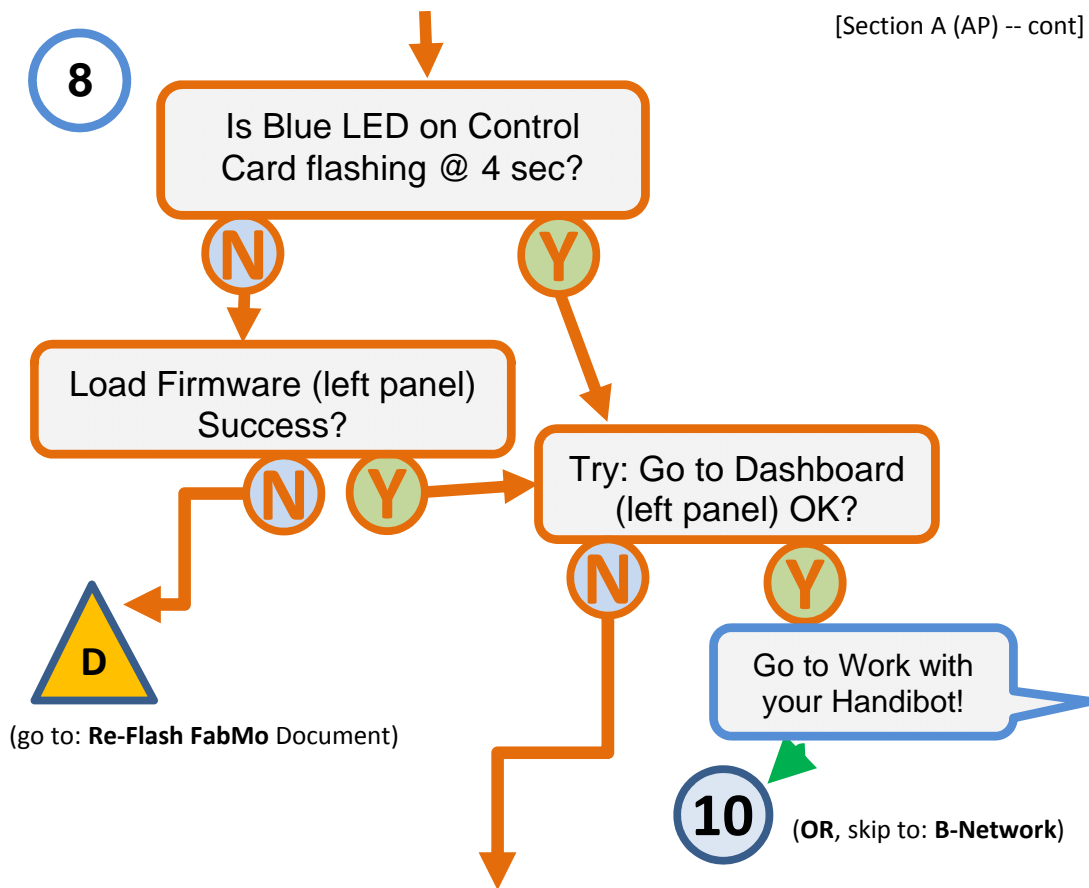**N** → Directly open 192.168.42.1**:81** in your browser. FabMo "Updater", OK?

Y → Go to Work with your Handibot !

N → **D**

(go to: **Re-Flash FabMo** Document)

Y →

10

(OR skip to: **B-Network if also having network issue**)

8

Is Blue LED on Control Card flashing @ 4 sec?

N → Load Firmware (left panel) Success?

Y → Try: Go to Dashboard (left panel) OK?

Load Firmware (left panel) Success?

N → **D**

(go to: **Re-Flash FabMo** Document)

Y → Try: Go to Dashboard (left panel) OK?

Try: Go to Dashboard (left panel) OK?

N →

Y → Go to Work with your Handibot!

10 (**OR**, skip to: **B-Network**)

9

There's one last thing we can try here:

- **Attempting to get onto the internet from the Updater itself** and the trying again to start the update process.
- **Use Network function on the left-side menu** to get on the internet and attempt the update.
- **It this does not work**, then you will need to reflash the full image on your Handibot.

D

(go to: **Re-Flash FabMo** Document)

10 **Section B**. Problems <u>Hooking-Up to your Network</u>. You are able to link to your tool in Anchor Point (AP) mode, but not able to link your tool to your Network.
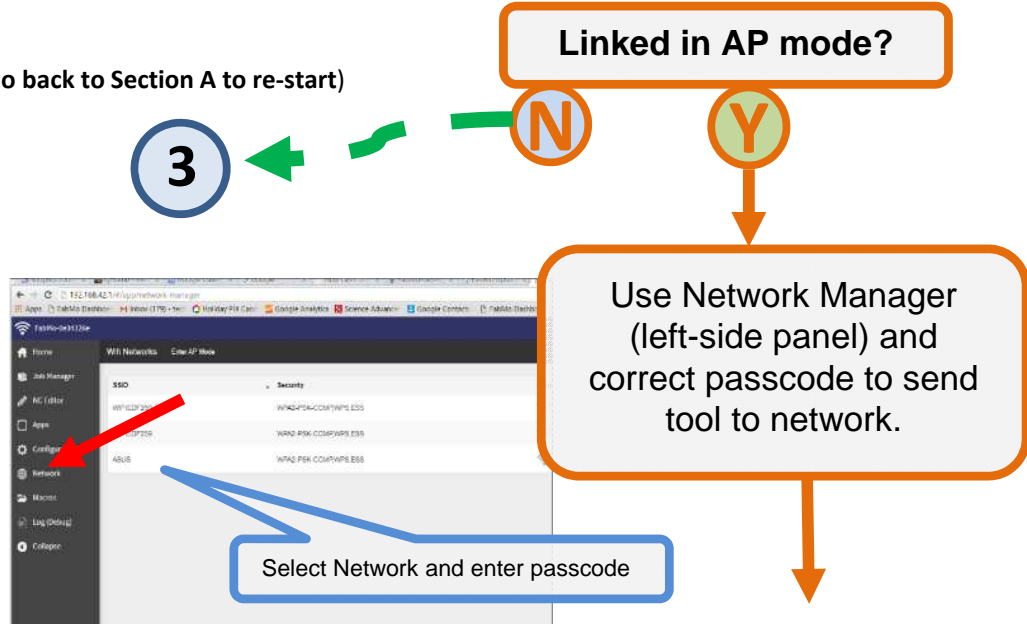
> Preliminary Checks
> - Make sure you have the **correct passcode** for your network; Handibot/FabMo will not currently link to a network that requires a user name.
> - **Get Handibot closer to your wireless router:** Your Handibot needs good signal strength to link and maintain a network connection.

Ok, let's get to work getting onto that network …

11 <u>Section B</u> of this document assumes as a Starting point that your are currently linked to your Handibot in **AP mode** with **FabMo Minder ava**ilable.

Linked in AP mode?

(**Go back to Section A to re-start**)

3 ← **N** **Y**

Use Network Manager (left-side panel) and correct passcode to send tool to network.

Select Network and enter passcode

12

Making Sure …
- Close the browser window and then make sure that your device has gone **back onto the network**. This usually happens automatically, but you may need to use its Wi-Fi manager to re-connect it.

Watch for your Handibot to appear in the FabMo Minder (give it 2 min). I've got my Handibot …!

N

Y

FabMo Devices List

FabMo Devices ⚙

fabmo-0e34326e ● idle

192.168.1.243

CLICK to **go to work** with your Handibot

13

Check your device wireless manager. Is Handibot/FabMo still showing in list?

N

Y

Probably on Network, but not being seen by FabMo Minder…
- Minder may not be identifying IP address?
  → use **Revert and Return** strategy to get IP

Not Joining Network, you're back in AP mode …
- Network is blocking access or not providing an IP address?
  → use router admin tools; or, try a different router
- Signal too weak?
  → try closer
- [Call us about network issue]

14

Revert & Return

Hold **Green Button** for 8 sec.
Has tool re-appeared in Network list in AP mode?

Y

Go **back to Dashboard in AP mode**.
Now check Network Manager History
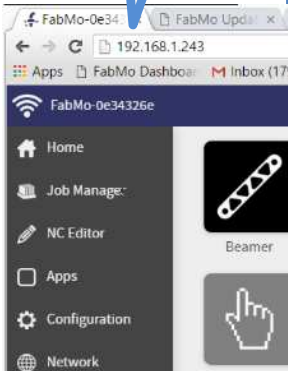for **IP address**.
Found?

N → [Call us about network issue]

Y

15

IP here

You've got the address, we can go back on network …
1. Save the IP address. You'll use it to access your tool.
2. Use FabMo Network Manager (left-side) to send tool back to your network (again).
3. Enter the IP address manually in your browser to log onto the tool.

Hope this got it for you?

N → [Call us about network issue]

Y → Go to Work with your Handibot!