



Daemon3D Print

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The Offline Guided Setup

This offline setup will walk you through connecting your printer to your computer updating firmware, loading filament and getting your first print started.

We recommend going through this setup if you're having issues following the setup through MakerBot Mobile or if you do not have access to the internet.

Guided Setup Steps

1. The printer's control panel will display a welcome screen introducing you to the Guided Setup. Press the dial to select **Press Dial to Continue**.
2. You will then want to select **Get Started** and then **Begin Setup**.
3. From here, you will deviate from the normal guided setup. Press the bottom button on the side of the screen that corresponds with the three horizontal lines and select **Skip this Step**.
4. Press the bottom button again, select **Skip this Step**, and then select **Skip Anyway**.
5. You will then be directed to attach your Smart Extruder+. Attach the Smart Extruder+ that arrived with your printer.
6. After selecting **Continue**, select **Start Calibration**. This process will take 3-5 minutes.
7. Now select **Start Filament Loading**, and load the printer's spool of filament into the back drawer.
8. Select **Filament is Loaded**.
9. The Smart Extruder+ will begin heating up to 215 degrees C. Once it reaches its target temperature, the printer will ask you to load filament. *Do not load filament until the printer prompts you to do so.*
10. Once filament is extruding from the bottom of the Smart Extruder+, select **Filament is Extruding**.
11. Select **Begin Test Print** and then **Print**.
12. After your print completes, you will be prompted to update your printer's firmware. Select **Update Firmware**. Once the update completes, you are ready to continue printing!

The Guided Setup



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The first time you turn on your MakerBot Replicator+, you will be guided through the initial setup process using the MakerBot Mobile app and the Replicator+ control panel to connect your Replicator+ printer to a Wi-Fi network. The first run experience will serve as the primary connection in connecting your Replicator+ to an internet connection.

This setup will walk you through pairing your mobile device to your printer, connecting the printer to a Wi-Fi connection, and loading filament. From there, it will prompt you to print a preloaded example print. Press the dial to get started.

Guided Setup Steps

1. The control panel will display a screen describing the functionality of the menu buttons. Push the dial to **Begin Setup**.
2. The control panel will display a screen to visit www.makerbot.com/getstarted for support and ask that you download the MakerBot Mobile App. Download the MakerBot Mobile App on your mobile device. Select **App is Ready** with the dial on your MakerBot Replicator+ to begin setup.
3. Open MakerBot Mobile on your mobile device and log in with your MakerBot credentials. If you do not already have a MakerBot account, create one.
4. Tap the Printers icon, or tap the Navigation button and tap **Printers**.
5. You will be taken to the **My Printers** screen, which will list any saved printers and will allow you to connect to new printers.
 1. For IOS users, tap the **Add a Printer** button, if there are no printers on your list.
 2. For Android users can also tap the Floating Action Button to add a printer.
6. Tap **Setup a New Printer**.
7. Select the type of printer you wish to connect to. For this example, we will tap **Replicator+**. Instruction on the Replicator+ control panel will also display these steps. Note: If you've selected the wrong printer type, you can always go back and choose the correct supported printer.
8. You will see a message telling you to connect your mobile device to your local Wi-Fi network, reminding you to remove packaging clips and to make sure the MakerBot Replicator+ is plugged in and powered on. Tap **Printer is On** on your mobile device or select **Ready to Pair** on the MakerBot Replicator+.
9. Tap **Connect to Printer** to begin the pairing process and connect to the MakerBot Replicator+'s hotspot when the hotspot is active.
 1. For IOS users, open Wi-Fi Settings, find the hotspot that Replicator+ created in your Wi-Fi settings and connect to it. When you are connected to the hotspot, return to the app. The hotspot should be

- named MBS_{Setup}XXXX, where XXXX is the last 4 digits of the Replicator+ serial number.
2. For Android users, the app will automatically connect to the hotspot. If there are multiple hotspots detected, you will be presented with a list of hotspots to which you can connect. The name of the hotspot is also displayed on the control panel.
 10. Your mobile device will attempt to authenticate and pair with the MakerBot Replicator+. When finished you will see a message on your mobile device and the MakerBot Replicator+'s control panel stating the pair was successful. *Note: if you can't see your printers' hotspot, make sure your printer is in hotspot mode and is beaming out its signal.*
 11. With your mobile device now paired to the MakerBot Replicator+, tap **Name Printer**. Give your printer a name and tap **Continue**.
 12. After your printer is named, select the Wi-Fi network that you would like your MakerBot printer to be connected to. Once you have selected the Wi-Fi network, type in the Wi-Fi network password if necessary.
 13. Please wait for your mobile device to find your printer before continuing the setup process. When connected to the Wi-Fi network, the MakerBot Replicator+ control panel and the MakerBot Mobile App will show a message confirming that you have successfully connected your printer to the selected Wi-Fi network. *Note: If your Wi-Fi fails to connect and you receive an error, try restarting the pairing process. You shouldn't run into any issues the second try.*
 14. Tap **Begin Calibration** and then **Start Calibration** to begin the calibration process on the MakerBot Replicator+. Follow the instructions on the control panel and attach the Smart Extruder+ so that it magnetically snaps into the extruder carriage. The mobile app will prompt you to confirm that the Smart Extruder+ is attached. *Note: If any filament is already loaded, you will be prompted to remove filament. Tap Remove Filament Now, to unload filament.*
 15. When calibration is complete, tap **Start Filament Loading** on your mobile device to load filament. Note the status of your extruder on your mobile device while your extruder heats up.
 16. The control panel will prompt you to place the spool and feed filament through the guide tube on the control panel. When finished loading the filament, tap **Filament is Loaded** on your mobile device.
 17. Grasp the filament and push it into the Smart Extruder+ when prompted. Make sure to push the filament through the entire Smart Extruder+, not only through the PTFE tube. When filament is extruding from the nozzle, tap **Filament is Extruding** on your mobile device.
 18. Now that filament is loaded, you can begin your first print! Tap **Begin Test Print** on your mobile device. You will see a 3D rendering of the test print. Select **Print** on the MakerBot Replicator+ or tap **Start Test Print** on your mobile device. Make sure the build plate is clear of any objects or debris before printing. *Caution: Never turn off the MakerBot Replicator+*



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immediately after completing a print. Always allow the Smart Extruder to cool to 50 °C before powering down.

19. The test print will take about 20 minutes. When printing is complete, remove the build plate from the Replicator+ and then remove the object from the build plate.
20. Insert the build plate back into the MakerBot Replicator+ and push the dial on the Replicator+ to select **Continue**.
21. The MakerBot Replicator+ will then check to see if your firmware is up to date. If an update is available, download it. If your firmware is already up to date, select **Done**.

Printer setup is now complete.

Where is my Printer's Serial Number?

Your serial number is located on the outer right side of your MakerBot Replicator+. Your serial number begins with "R5A," followed by a seven-digit combination.

Connecting to your MakerBot Replicator+ via Wi-Fi

Via MakerBot Print:

1. Locate the USB cable that came with your MakerBot Replicator+.
2. Insert the USB-B end of the cable into the port on the side of your printer and insert the USB-A end of the cable into one of the USB ports on your computer. We do not recommend connecting with USB hubs or extension cords.
3. Power on your printer and open MakerBot Print on your computer.
4. Your printer will take a few minutes to boot up. Once the light on the printer's action button has stopped blinking, you should the printer appear on MakerBot Print.
5. The Replicator+ will show up under Printers. Select it to access the Printer's menu.
6. Select **Utilities > Network Preferences**.
7. Select your Wi-Fi network from the dropdown menu and input your password.
8. Once connected to the Wi-Fi network, disconnect your USB cable. You are now successfully connected via your network.

Via MakerBot Mobile:

1. Open the MakerBot Mobile App and log in with your credentials on your mobile device.
 1. For iOS users, tap **Add a Printer**.
 2. For Android users, tap the **Printers** icon, or tap the Navigation button and tap Printers.
2. You will be taken to the **My Printers** screen, which will list any saved printers and will allow you to connect to new printers.
 1. For iOS users, tap **Add+**.



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2. For Android users, tap **Add a printer** or tap the **Floating Action Button** to add a printer then tap **Connect to a Networked Printer**.
3. Scroll through the list of available printers already connected on the specified network and tap on a printer.
4. You will see an information screen which lists the name of the printer, the printer type, and the printer IP address. Once you have found the correct printer, tap **Use This Printer**.
5. Push the dial on the MakerBot Replicator+ control panel to authenticate the connection. On the MakerBot Mobile App, you will see the live camera feed and print state from the MakerBot Replicator+.

Connecting to your MakerBot Replicator+ via USB

How to Connect via USB

1. Locate the USB cable that came with your MakerBot Replicator+.
2. Ensure your MakerBot Replicator+ is on.
3. Insert the USB-B end of the cable into the port on the side of your MakerBot Replicator+ and insert the USB-A end of the cable into one of the USB ports on your computer. We do not recommend connecting with USB hubs or extension cords.
4. Open MakerBot Print. The software will automatically detect your 3D printer.
5. When your MakerBot Replicator+ is connected to MakerBot Print the name of your MakerBot Replicator+ will appear with a dot next to it in the Devices menu. You will also see a USB icon in the bottom left corner of the MakerBot Print window.

Connecting to your MakerBot Replicator+ via Ethernet

How to Connect via Ethernet

1. Locate an Ethernet cable.
2. Connect one end of the cable to the Ethernet port at the back of your MakerBot Replicator+. Connect the other end to a wall jack or router used by your local area network.
3. Make sure your computer is connected to the same local area network. MakerBot Print will automatically detect your MakerBot Replicator+. When your MakerBot Replicator+ is connected to MakerBot Print, the name of your MakerBot Replicator+ will appear with a dot next to it in the Devices menu. You will also see a LAN icon in the bottom left corner of the MakerBot Print window.

Once your MakerBot 3D printer is connected, you can use remote monitoring to access your 3D printer over any network.



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Changing Filament

How to Change Filament

The easiest way to change the filament for your MakerBot Replicator+ is to use the control panel.

1. Select **Filament > Unload Filament**.
2. The Smart Extruder+ will start to heat up. When the extruder is fully heated, it will go through a two-part unloading process. Remove the filament from the extruder only when prompted by the control panel.
3. Open the filament drawer and remove the old spool. Be careful to keep the spool tightly wound as you pull the filament free of the guide tube. Place the new spool in the filament drawer.
4. Select **Filament > Load Filament**.
5. Wait for the Smart Extruder+ to heat.
6. Cut the end of your new filament to create a clean edge.
7. Grasp the top of the extruder assembly and push the filament into the loading tube in the extruder until you can feel the motor pulling the filament in.
8. Wait until you see plastic emerging from the extruder nozzle before pressing the control panel dial to finish the filament load process.

Note: If you're changing colours, you'll need to run the extruder for a few moments to clear out the old colours before finishing the filament load process.

Changing Filament During a Print

To replace a spool that's running low, or to create a print with layered colours, you can change filament during a print. Go to **Menu > Print** and select **Change Filament**. This will pause your print and take you directly to the **Filament** menu. Then follow the steps above before resuming your print. If you're up to date with the latest firmware a software, you can also allow your Smart Extruder+ to run out of filament. This will cause your MakerBot Replicator+ to run the **Unload Filament** script. When the extruder has finished unloading, wait for it to cool to at least 50°C. Remove the last piece of filament from the extruder, then select **Load Filament**. When you have finished the load sequence, go to **Back to Menu > Resume**.

Loading Filament

The MakerBot Replicator+ is optimized for large (0.90 kg) and small (0.22 kg) spools of MakerBot PLA filament.

Installing a Filament Spool

Open the filament drawer by pulling up the back section of the frame of the MakerBot Replicator+. Position the filament spool so that it will unwind counter clockwise and fit the spool onto the filament spindle. Be careful not to let the filament loosen or tangle on the spool.

Detach the free end of the filament from the spool and insert it into the filament guide tube at the upper right corner of the filament drawer. Push filament through the tube until the free end emerges from the end of the guide tube.

Hold the top of the filament drawer with one hand and depress the latch on the filament drawer. Slide the filament drawer closed.

Loading Filament into the Smart Extruder+

1. Use the control panel dial to select Filament > Load Filament.
2. Wait for the extruder to heat.
3. Cut the end of your filament to create a clean edge. You can use scissors or wire cutters to cut a clean edge on the end of your filament. You don't want to load anything with a bulged, twisted or sharp edge.
4. Grasp the top of the extruder assembly and push the filament into the extruder's loading tube until you can feel the motor pulling the filament in. If you're running into a problem during this process, unload the filament and repeat step 3. It may help to press the lever on the side of the extruder and gently feed filament towards the hot end at this point.
5. Wait until you see plastic emerging from the extruder nozzle before pressing the control panel dial to finish the filament load process.
6. Fit the filament guide tube securely into the extruder's loading tube.

How to Install the Extruder

Unwrap the Smart Extruder+ and press it against the back of the extruder carriage, with the connector pins facing the front of the MakerBot Replicator+. Magnets will lock the extruder into place.

Note: It might not be obvious where to attach the extruder if the gantry is positioned all the way at the back of the printer. When your MakerBot Replicator is paused or not printing, use both



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hands, one at each end of the gantry, and apply equal pressure to move the gantry forward. It is not safe to manually move the gantry when your 3D printer is printing.

When the extruder is in place, check the control panel screen. If the extruder icon on the home screen looks normal, your extruder is connected properly. If you see a silhouette of the extruder icon, select it to run the extruder attachment script. The carriage motor will turn to ensure that the extruder fits snugly against the extruder carriage.

Changing Extruders

You can install or change extruders at any time as long as your MakerBot Replicator+ is turned on. If your MakerBot Replicator+ is printing, navigate to the Print/Options menu and select **Pause**. Wait for the extruder to cool to at 50°C. Remove the extruder and replace it with the new one, then select **Attach Smart Extruder**. Once you have attached the new Smart Extruder+, navigate to the Print/Options menu and select **Resume** to resume printing.