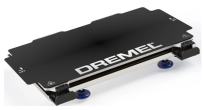
DREMEL

DREMEL 3D45 Flexible Build Plate Operating



DREMEL 3D45 Flexible Build Plate Operating Instruction Manual

Contents

DREMEL®

DREMEL 3D45 Flexible Build Plate Operating

DREMEL 3D45 Flexible Build Plate Operating/Safety Instructions

General Safety Warnings
WARNING: Read all operating/safety instructions in the manual and familiarize yourself with the Dremel 3D45 before setup and use. Failure to comply with the warnings and instructions may result in fire, equipment damage, property damage, or personal injury.

READ ALL INSTRUCTIONS

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

- Keep the build plate holder away from cardiac pacemakers. The magnets of the build plate holder generate a field that can impair the function of cardiac pacemakers.
- Keep the build plate holder away from magnetic data medium and magnetically sensitive equipment. The effect of the magnets of the build plate holder can lead to irreversible data loss.
- **CAUTION:** Always work in a well-ventilated area. Inhalation of vapors or oil mist may cause mild irritation of the nose, throat, and respiratory tract.
- **CAUTION:** DO NOT USE a metal scraper to remove printed objects from the flexible build sheet. Doing so will damage your build sheet.

Installation
WARNING: Ensure the 3D45 is cooled down to at least 60°C (140°F).
Your flexible build plate kit comes with an aluminum build plate with magnetic surface and a 2-sided flexible (PEI) build sheet.

1. Remove the glass build plate. Do not drop the build plate. Tempered glass plate may break and result in personal injury.
2. Insert the aluminum build plate (magnet side up) at an angle, aligning the notched tabs in the back then pressing down on the front until the tabs snap in to place. **FIG. 1.**
3. Insert the flexible sheet at an angle, notched tabs first, towards the back of the build plate then lay flat. The

Dremel logo should be positioned towards the front of the printer. **FIG. 2.**

Change Printer Settings

1. Complete a leveling check with the new flexible build plate and sheet in place.
2. Change the Z-offset. From the home screen click **TOOLS > CALIBRATE > NOZZLE GAP CALIBRATION > Add +0.2mm > ACCEPT.**
3. Run a test print. If the test print doesn't adhere well, repeat step 5 and reduce the existing setting by -0.1mm.

Removing Printed Objects
WARNING: Do not flex the build plate with the object pointing towards yourself or others. Objects flying off the build plate may result in personal injury.
CAUTION: Avoid scratching the build sheet when removing objects. Scratches in the build sheet will result in improper object creation.
CAUTION: The build sheet will be hot after printing. Allow the build sheet to cool or wear gloves before removing it from the printer.

1. Once your print is complete and has cooled, remove the build sheet from the printer by pulling it up off the magnet plate by its side handles.
2. To remove the printed object, flex the build sheet with the object pointed away from yourself or others. Push on the back of it with your thumbs using your other fingers to hold onto the handles. **FIG. 3.**
3. The object will release and can easily be pulled off by hand. For thin or small parts, flexing the build sheet may not be enough to release the object. In these cases, you may use a plastic putty knife or your fingernails to unhinge and remove it.

DO NOT USE a metal scraper as it will ruin the PEI surface of your build sheet.

Removing Supports (If needed)
Use needle nose pliers to remove internal supports or hard-to-reach areas.

Cleaning & Maintenance
Oil build-up from your fingers may diminish first layer adhesion. Clean the build sheet as needed using alcohol wipes or Windex.

Contact Information
Call Toll Free for Consumer Information & Service Locations: **1-844-4DRML3D (1-844-437-6533)**
Visit **3piTech.com** for more information.

Specifications

Item	Description
Build Plate	Aluminum with magnetic surface
Build Sheet	2-sided flexible (PEI)

FAQ

1. What should I do if the print doesn't adhere well?

Repeat the leveling check and adjust the Z-offset by reducing it by -0.1mm.

2. Can I use a metal scraper to remove objects?

   No, using a metal scraper will damage the PEI surface of the build sheet.

3. How do I clean the build sheet?

   Use alcohol wipes or Windex to clean the build sheet.

3D45 Flexible Build Plate Operating/Safety Instructions

General Safety Warnings

WARNING Read all operating/safety instructions in the manual and familiarize yourself with the Dremel 3D45 before setup and use. Failure to comply with the warnings and instructions may result in fire, equipment damage, property damage, or personal injury.

READ ALL INSTRUCTIONS

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE
Keep the build plate holder away from cardiac pacemakers. The magnets of the build plate holder generate a field that can impair the function of cardiac pacemakers.
Keep the build plate holder away from the magnetic data medium and magnetically sensitive equipment. The effect of the magnets of the build plate holder can lead to irreversible data loss.

CAUTION Always work in a well-ventilated area. Inhalation of vapors or oil mist may cause mild irritation of the nose, throat, and respiratory tract.
CAUTION DO NOT USE a metal scraper to remove printed objects from the flexible build sheet. Doing so will damage your build sheet.

Installation

WARNING Ensure the 3D45 is cooled down to at least 60°C (140°F).

Your flexible build plate kit comes with an aluminum build plate with magnetic surface and a 2-sided flexible (PEI) build sheet.

1. Remove the glass build plate. Do not drop the build plate. Tempered glass plate may break and result in personal injury.
2. Insert the aluminum build plate (magnet side up) at an angle, aligning the notched tabs in the back then pressing down on the front until the tabs snap in to place. FIG. 1.

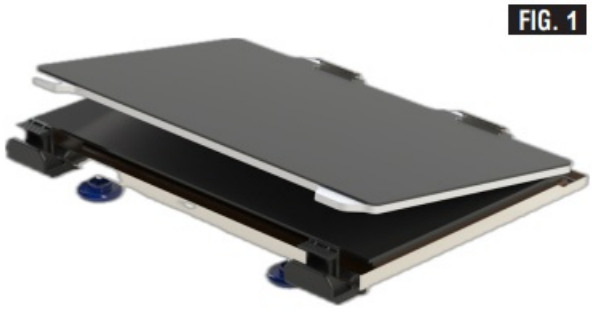
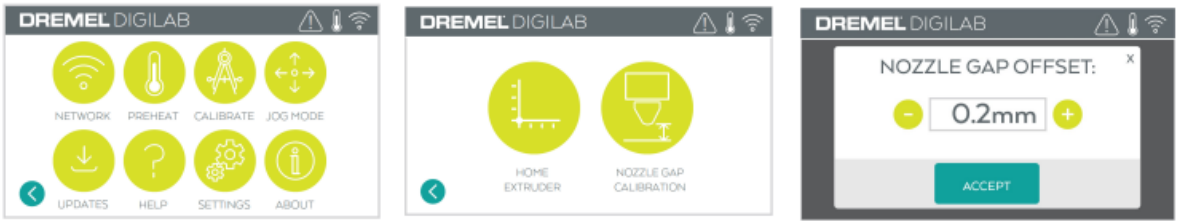


FIG. 1

3. Insert the flexible sheet at an angle, notched tabs first, towards that back of the build plate then lay flat. The Dremel logo should be positioned towards the front of the printer. FIG. 2

Change Printer Settings

1. Complete a leveling check with the new flexible build plate and sheet in place
2. Change the Z-offset. From the home screen click TOOLS > CALIBRATE > NOZZLE GAP CALIBRATION > Add +0.2mm > ACCEPT.
3. Run a test print. If the test print doesn't adhere well, repeat step 5 and reduce the existing setting by -0.1mm.



Removing Printed Objects

- WARNING Do not flex the build plate with the object pointing towards yourself or others. Objects flying off the build plate may result in personal injury.
- CAUTION Avoid scratching the build sheet when removing objects. Scratches in the build sheet will result in improper object creation.
- CAUTION The build sheet will be hot after printing. Allow the build sheet to cool or wear gloves before removing it from the printer.

Call Toll Free for Consumer Information & Service Locations

1. Once your print is complete and has cooled, remove the build sheet from the printer by pulling it up off the magnet plate by its side handles.
2. To remove the printed object, flex the build sheet with the object pointed away from yourself or others. Push on the back of it with your thumbs using your other fingers to hold onto the handles, FIG. 3.
3. The object will release and can easily be pulled off by hand. For thin or small parts, flexing the build sheet may not be enough to release the object. In these cases, you may use a plastic putty knife or your finger nails to unhinge and remove it.
   DO NOT USE a metal scrapper as it will ruin the PEI surface of your build sheet.

Removing Supports (If needed)
Use needle nose pliers to remove internal supports or hard to reach areas.

Cleaning & Maintenance

Oil build up from your fingers may diminish first layer adhesion. Clean the build sheet as needed using alcohol wipes or Windex.

Visit 3piTech.com for more information

Documents / Resources

	[DREMEL 3D45 Flexible Build Plate Operating] [pdf] Instruction Manual 3D45, 3D40, 3D45 Flexible Build Plate Operating, 3D45, Flexible Build Plate Operating, Build Plate Operating, Plate Operating

References

- User Manual