

# T2 Magnetic Base Adaptor Guide

Clean removable magnets for miniature bases

## Instructions & Print Guide



### LINKS

Store: [MyMiniFactory Store](#)

Website: [PrintableMini.tools](#)

YouTube Channel: [PrintableMini.tools](#)

## Getting Started

The T2 Magnetic Base Adaptor is designed to glue to the underside of injection-moulded miniature bases.

It provides a clean method of magnetisation while allowing magnets to be changed, adjusted or removed at any time without damaging the miniature.

The adaptor consists of a T2 threaded magnet chamber set into a base ring. A flat threaded bolt - Star Bolt - retains the magnet in the chamber.

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## Choosing the Right Adaptor Height

Manufactured bases vary in size, shape and underside clearance, so measure the space available under your base before printing. Typically, this distance is about 2.75mm.

Adaptors are supplied in two pre-cut heights and a 3mm version that you can cut to height if needed.

- 2.5mm
- 2.75mm
- 3mm trim-to-fit version

**Important:** The magnet chamber should not sit proud of the base rim. It should be flush with the rim edge or recessed very slightly.

If the adaptor protrudes beyond the base rim, reduce the height by cutting the part in slicer software. Do not scale threaded parts.

Once you have adjusted an adaptor and test printed it to suit your base, save that version for future use.



## Magnet Choice

Your magnet choice will depend on the space available inside the fitted adaptor.

In many cases, usable magnet height is likely to be around 2mm, depending on the base depth.

The Magnet Ring parts house magnets from 3mm to 12mm diameter. The chamber alone can house magnets up to 15mm diameter.

For plastic miniatures, magnets around 5mm to 8mm diameter are likely to be suitable, depending on magnet height and strength.

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## Assembly

1. Clean off any proud print marks or injection moulding marks under the base to ensure it sits flat.
2. Select the adaptor height that fits your base.
3. Glue the adaptor to the underside of the base.
4. Place the magnet into a Magnet Ring inside the chamber.
5. Secure the magnet using the printed Star Bolt.
6. Use the Star Key to tighten, remove or adjust the Star Bolt as required.

Hand-tighten only. Do not overtighten.

The Star Bolt is intended to retain the magnet without permanent glue, allowing the magnet to be removed or changed later.

The Star Key can also house a magnet. This helps hold magnets during installation and helps keep magnet polarity consistent.



## Small magnets and Magnet rings.

Magnets are best fitted inside a Magnet Ring. The ring keeps the magnet centred within the chamber and is especially useful when using smaller magnets.

Magnets smaller than 8mm should be set into a Magnet Ring with a small dab of glue. This is because smaller magnets fit inside the star-shaped opening in the Star Bolt.

This is not a problem and may even be preferred in some cases. Smaller magnets can sit flush or slightly raised in the ring, depending on the user's preference.

The example below shows an 8mm magnet and a 5mm magnet fitted into bases.



## Print Settings

These are small, precise parts and they benefit from lower layer heights.

We have had successful prints in PLA, PLA+ and PETG. PLA+ is used for our own examples.

The parts are small and print quickly.

## Base Adaptors

Layer Height: 0.16mm High Quality

Optional: Iron all top surfaces for a smoother finish

## Star Bolts and Magnet Rings

Layer Height: 0.12mm

## Star Key

Layer Height: 0.16mm High Quality

The Star Key includes threads, so avoid scaling or mirroring.

## Important Printing Notes

Do not scale or mirror parts that have threads. Reduce adaptor height by cutting only.

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## Free T2 Base Samples and Seamless printing

Two sample bases from the future **T2 Base range** are included in the file set. T2 Bases have the magnet chamber built into the base itself.

The full T2 Base range is planned to include over 40 base sizes.

These sample bases are included to show how the threaded magnet chamber is integrated directly into a purpose-designed T2 base.

## T2 Base Sample Print Settings

Layer Height: 0.16mm High Quality or lower

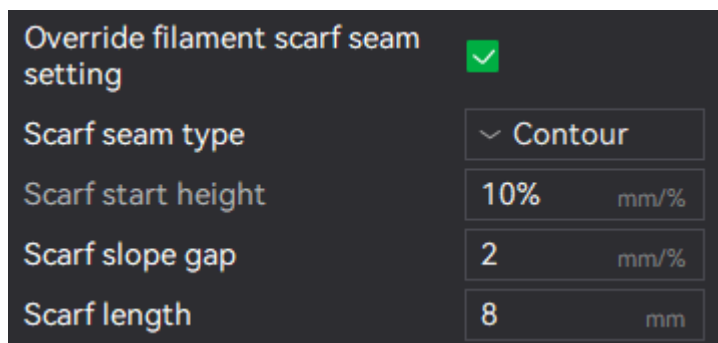
Iron Topmost Surfaces

**Seam:** Scarf Seam

**Scarf Settings:** Contour, Height 10%, Gap 2%, Length 8mm

**Seam Position:** Aligned

Scarfing the seam will greatly reduce the visible seam and may remove it from view entirely.



Override filament scarf seam setting

Scarf seam type

Scarf start height  mm/%

Scarf slope gap  mm/%

Scarf length  mm