

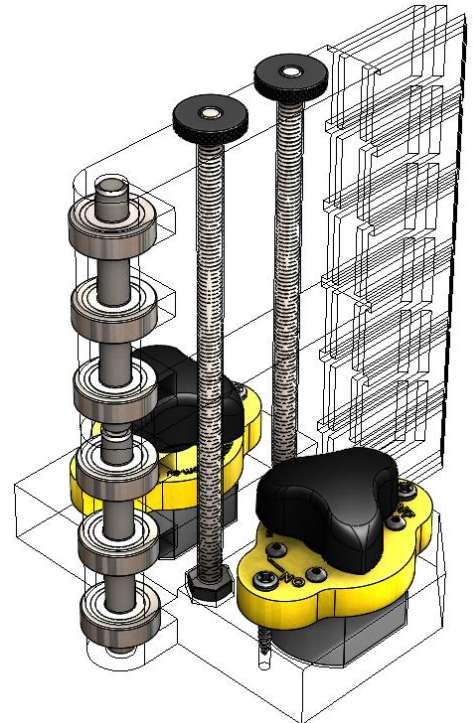
Bandsaw Featherboard DIY Kit | P/N: 8800946

Summary

The Bandsaw Featherboard is a safety attachment which pushes the workpiece against a fence during feeding to prevent wandering and binding. Attach it to steel bandsaw tables with the feathers in compression to apply even force. When rotated 180°, an array of six bearings allow it to function as a vertical roller guide for easy feeding of tall stock.

Features

- Includes two Magjig 150's for strong holding forces
- Wide footprint for stability
- Magnet footprint spans most miter slots
- Functional in left or right-handed positions
- Knobs improve visibility of magnet ON/OFF state
- Print or modify your own featherboard components with the provided solid model files.



WARNING!
Do Not Operate Unless In Contact With Ferrous Target

Specifications

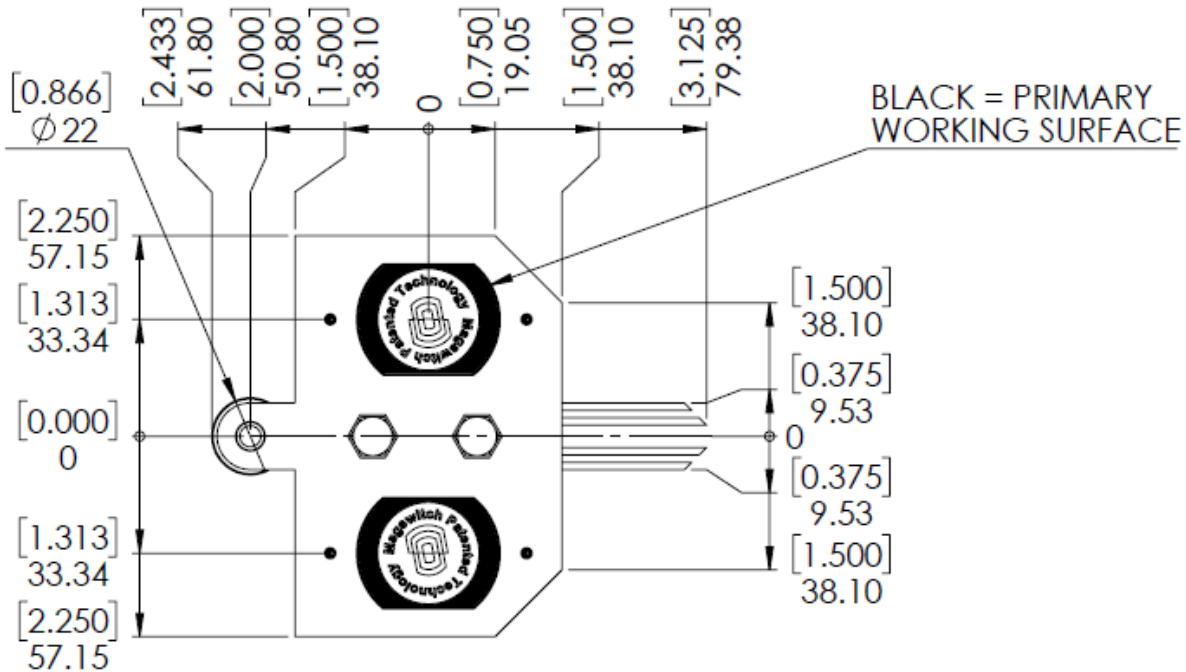
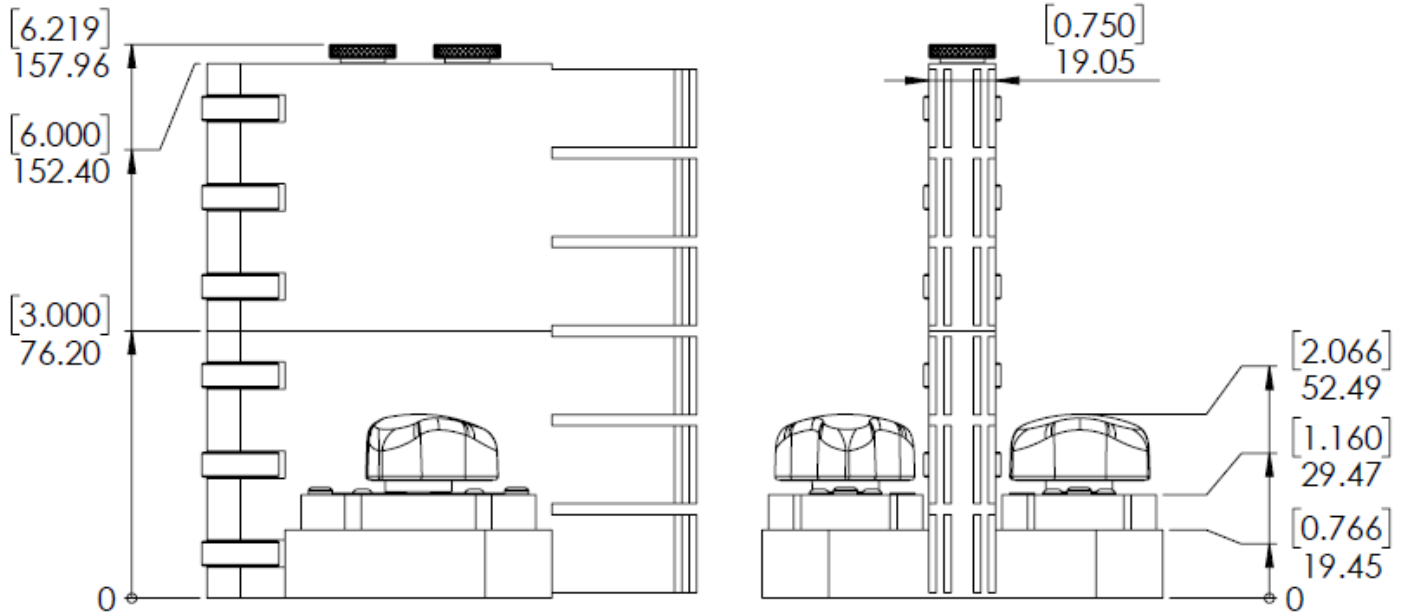
Nominal Maximum Breakaway Force ¹	258 lbs	117 kg
Nominal Maximum Shear ¹	51 lbs	23 kg
Net Weight	1.7 lbs	0.75 kg
Footprint	4.5" x 5.56"	114mm x 141mm

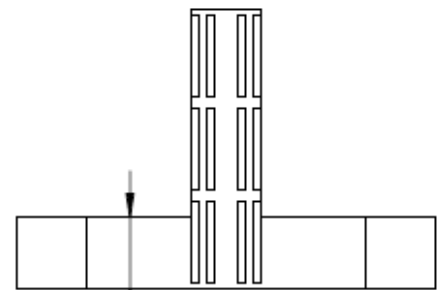
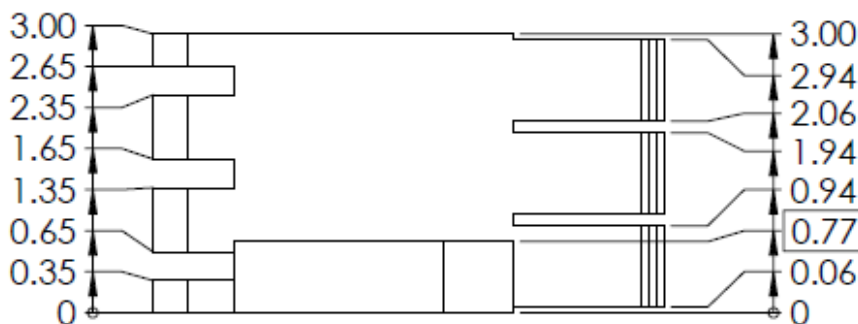
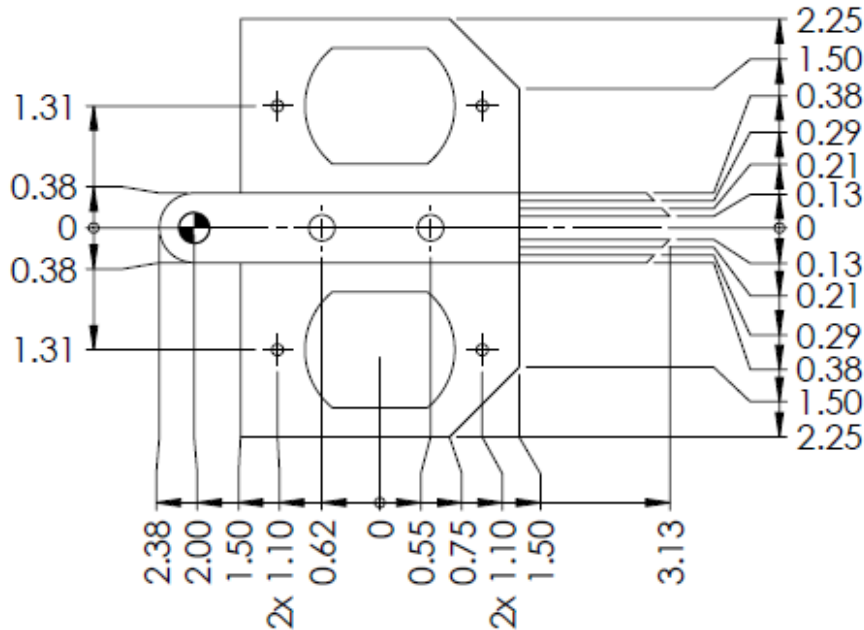
¹ Determined in laboratory environment on 2" thick SAE1018 Steel with surface roughness 63 micro inches with optimized pole shoes. Many factors contribute to the actual breakaway force and safe working load in each application. Consult a Magswitch Applications Engineer and test the Magswitch in each application before deployment.

NOTE: Plastic featherboard components which hold roller bearings and magjigs are not supplied as part of the kit!



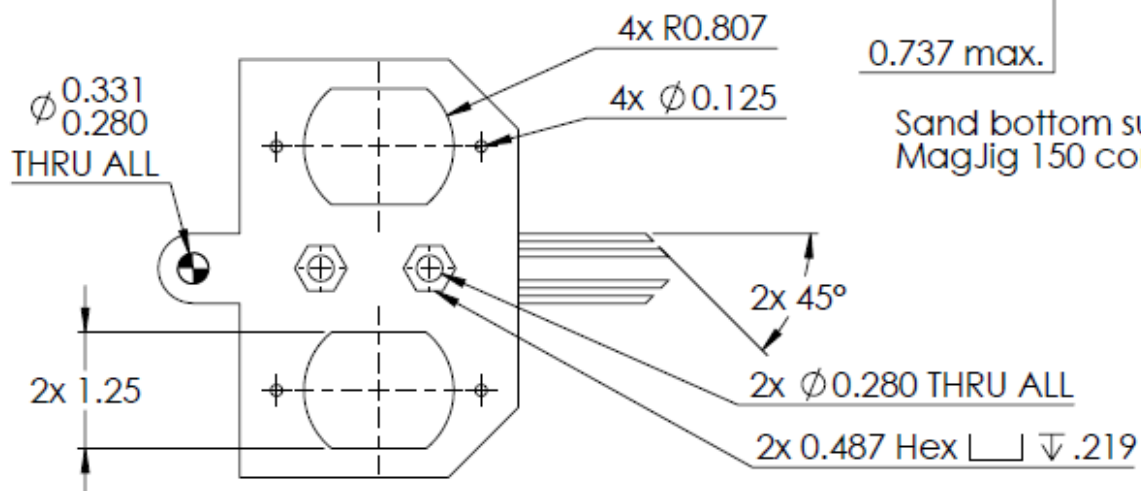
Assembled Product Dimensions



Product Dimensions (Bottom Half, 3D Printed)


0.737 max.

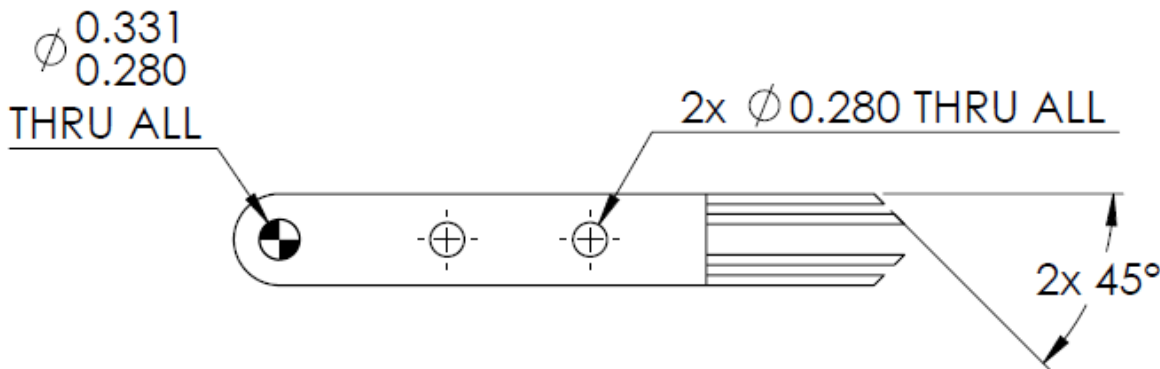
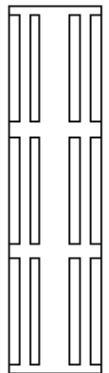
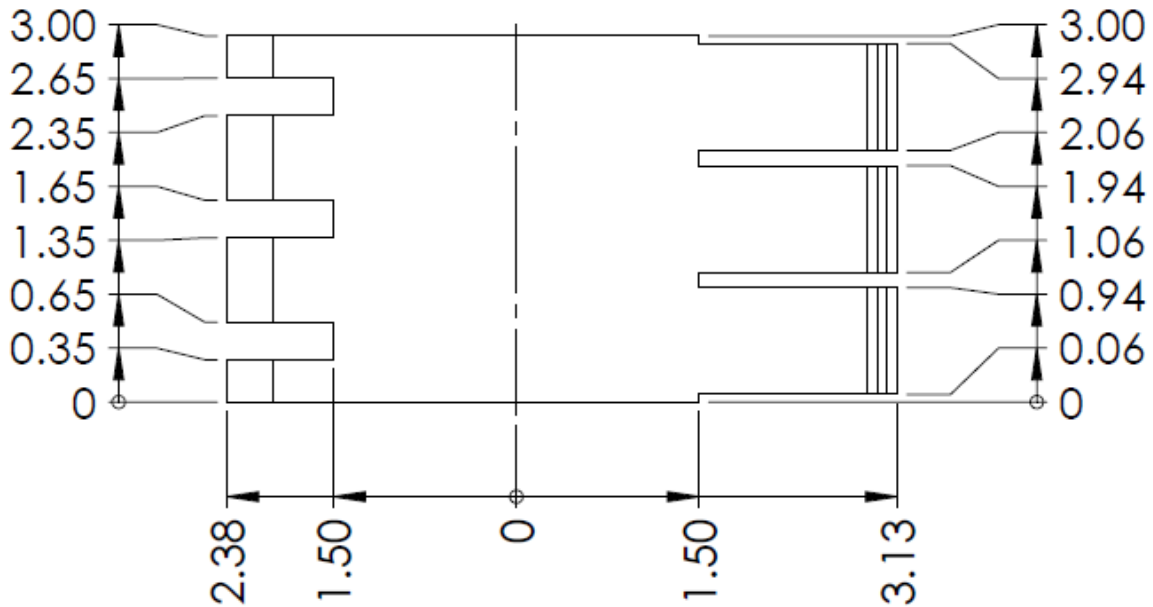
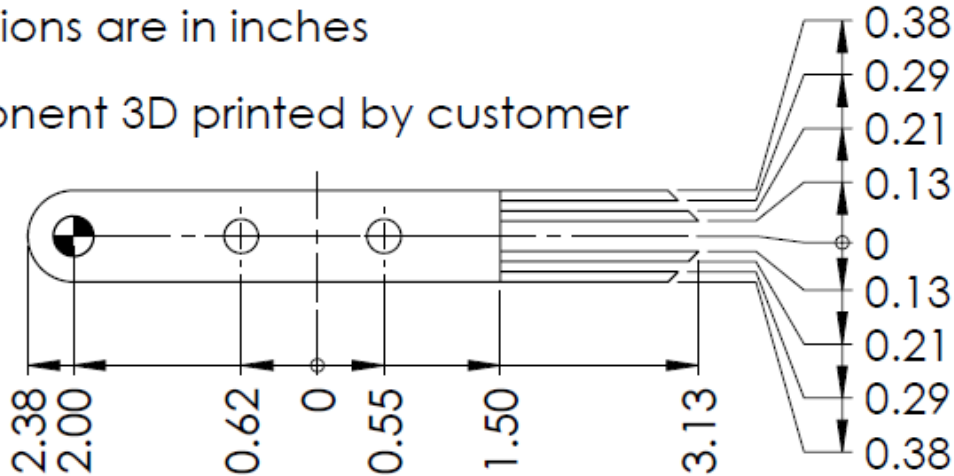
Sand bottom surface to ensure MagJig 150 contacts steel table



Product Dimensions (Top Half, 3D Printed)

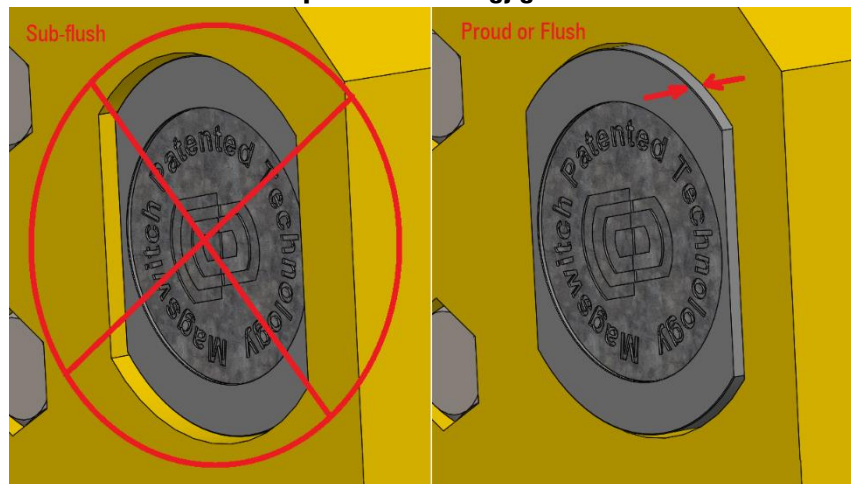
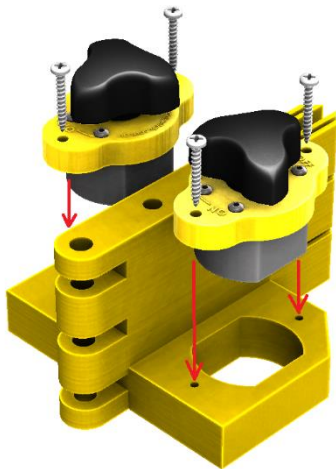
Dimensions are in inches

Component 3D printed by customer

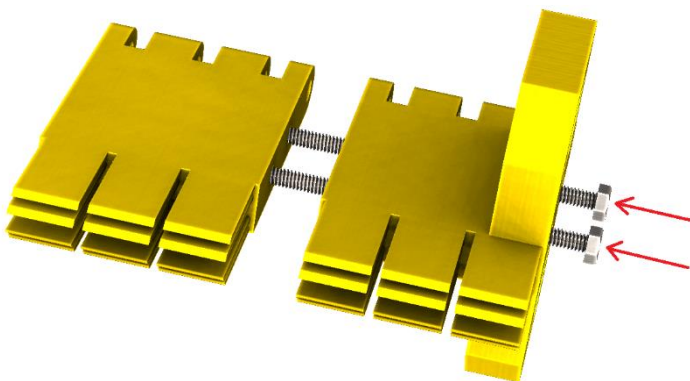


Assembly Instructions

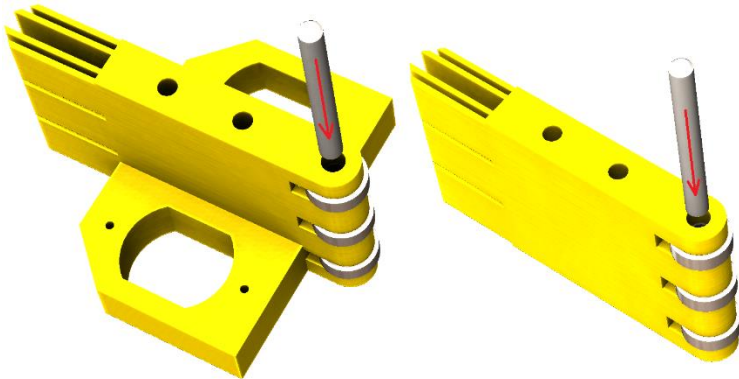
1. 3D-print or fabricate the top and bottom parts identified in the previous pages. Dimensions are nominal except where the allowable range or minimum value is specified.
2. Verify both Magjigs (8000005) fit through the □-shaped holes in the bottom part. Verify the four (4x) phillips screws (1801740) thread into the part through the holes in the Magjig. If needed, sand or file away material from the part to make them fit (or enlarge the holes and re-print the part). Confirm the bottom surface of the magjig is flush or proud of the bottom surface of the bottom part. **If sub-flush, the magnetic holding force will be significantly reduced, so sand the bottom surface of the part so the magjig touches the bandsaw table!**



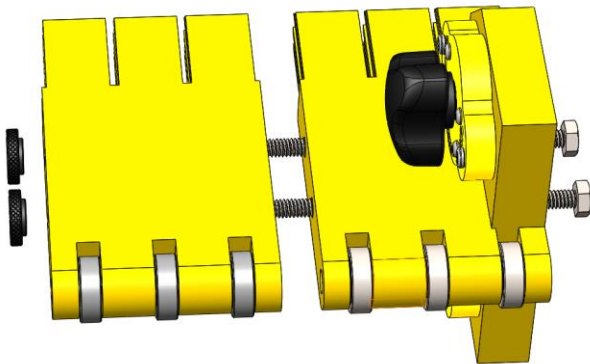
3. Verify hex head screws 1801742 slide smoothly through the holes identified below. If the holes are too tight, ream them out until the screws just fit. **If the holes are too loose, the top rollers may not be in alignment with the bottom rollers when assembled!**



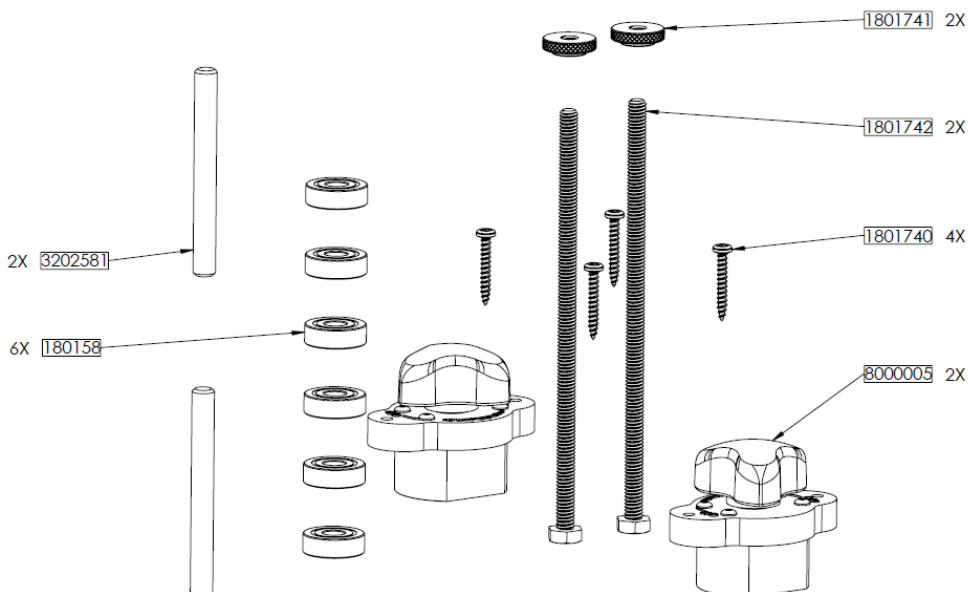
4. Verify pins 3202581 fit snugly through the holes in both parts as shown. If holes are too tight, ream them out until the pins can be pressed in with relatively little force. **If the holes are too loose, the rollers may not be in alignment when the dowel pins are glued in place!** Once verified, push the dowel through each part with the three bearings (180158) aligned in their respective slots. If the dowel is loose or likely to vibrate out, apply a dab of super glue to the dowel and push it into the hole until flush on both sides and allow to dry.



5. Once all other steps are complete, install the two 6" long screws (1801742) through both parts with the hex heads installed into the hexagonal bores in the bottom of the bottom part. Thread thumb nuts (1801741) onto the hex head screws to hold the top and bottom parts together.

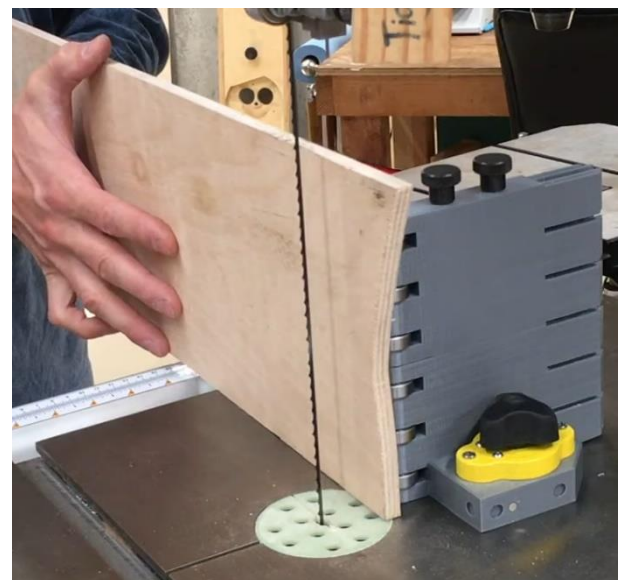
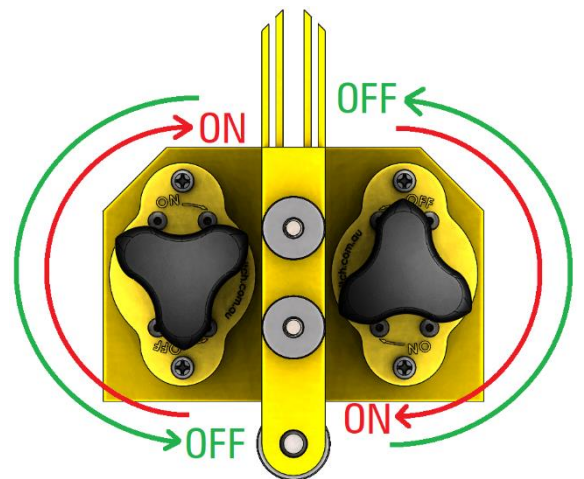
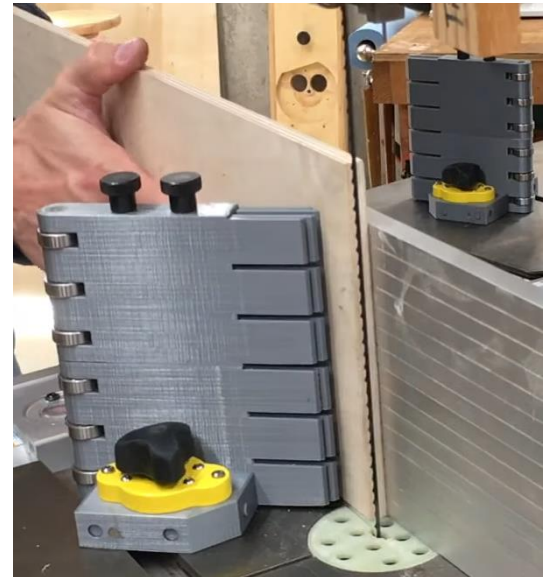


6. The kit of parts is shown below for reference:



Getting Started

1. Square and tighten the fence to the bandsaw table at the desired width from the bandsaw blade.
2. Position workpiece on fence for thickness reference. Slide the bandsaw featherboard up to the workpiece approximately at a 45° angle and compress the feathers against the workpiece. The featherboard should be positioned in front of the blade (before the workpiece reaches the blade). **DO NOT** place the featherboard behind/after the blade or it will bind the cut sliver of the workpiece against the blade.
3. Rotate the outer Magjig 150 knob clockwise until it locks ON and holds the featherboard base in place.
4. Remove the workpiece from the table and turn on the inner Magjig by rotating its knob clockwise until fully ON.
5. Feed the workpiece through the bandsaw and allow the feathers to push it against the fence. As always, wear safety glasses and exercise caution when working with power tools.
6. To loosen the featherboard, ensure the bandsaw is turned OFF and rotate the knobs of both Magjigs counterclockwise until magnets disengage.
7. Use as a roller guide by positioning the face of the rollers the desired distance from the bandsaw blade and feeding the workpiece against it. Use a second roller guide if parallelism is important.
8. If the full height of the featherboard/roller guide is too tall, deconstruct it back into the bottom and top halves and use just the lower half





EU Declaration of Incorporation for Partly Completed Machinery

We, Magswitch Technology

Magswitch Technology World Wide Pty. Ltd.
Registered Office: C/- Shop 2B, 14 Short Street, Port Macquarie NSW 2444 Australia

Declare with sole responsibility that the partly completed machines

Bandsaw Featherboard DIY Kit or other tool designations containing the "DIY Kit" description and any accessories for these designations covered by these directives

Comply with the essential requirements of 2006/42/EC

The relevant parts of the directive are defined more precisely in the technical documentation compiled in accordance with Section B Annex VII and, for a justified cause, can be made applicable in digital form for any relevant authorities.

And also conform to the relevant Union harmonisation legislation:

- 2011/65/EU Restriction of Hazardous Substances Directive (RoHS 2)
- 2015/863 Restriction of Hazardous Substances Directive III (RoHS 3)

Conformity is shown by compliance with the applicable requirements of the following documents:

Ref:	Title	Date
ISO 12100	Safety of machinery - General principles for design - Risk assessment and risk reduction	2010

Per Annex II.B of the Machinery Directive:

This product may not be taken into operation before the complete system into which it has been built has been declared to conform to the provisions of Directive 2006/42/EC.

The Technical Construction File is maintained at:

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