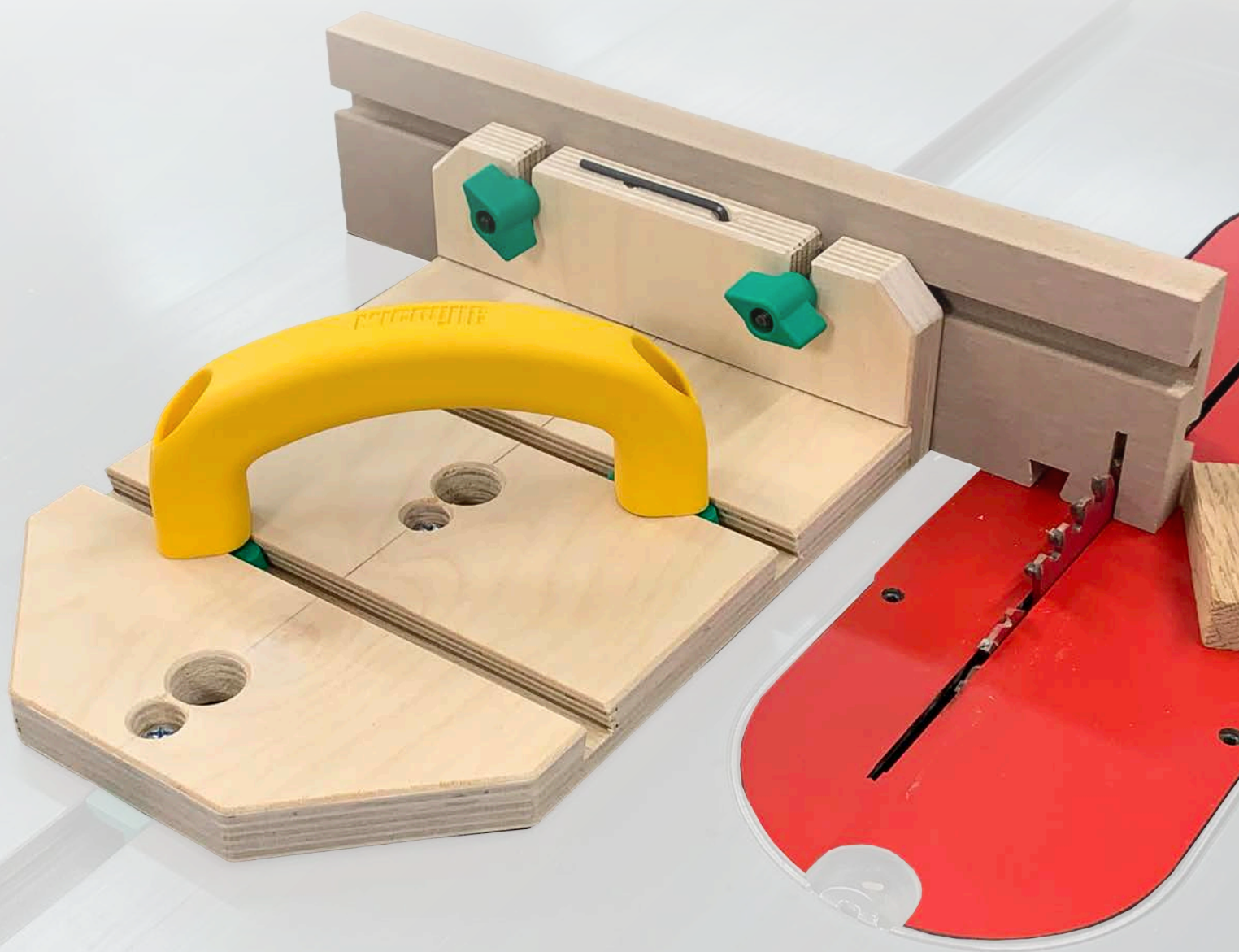
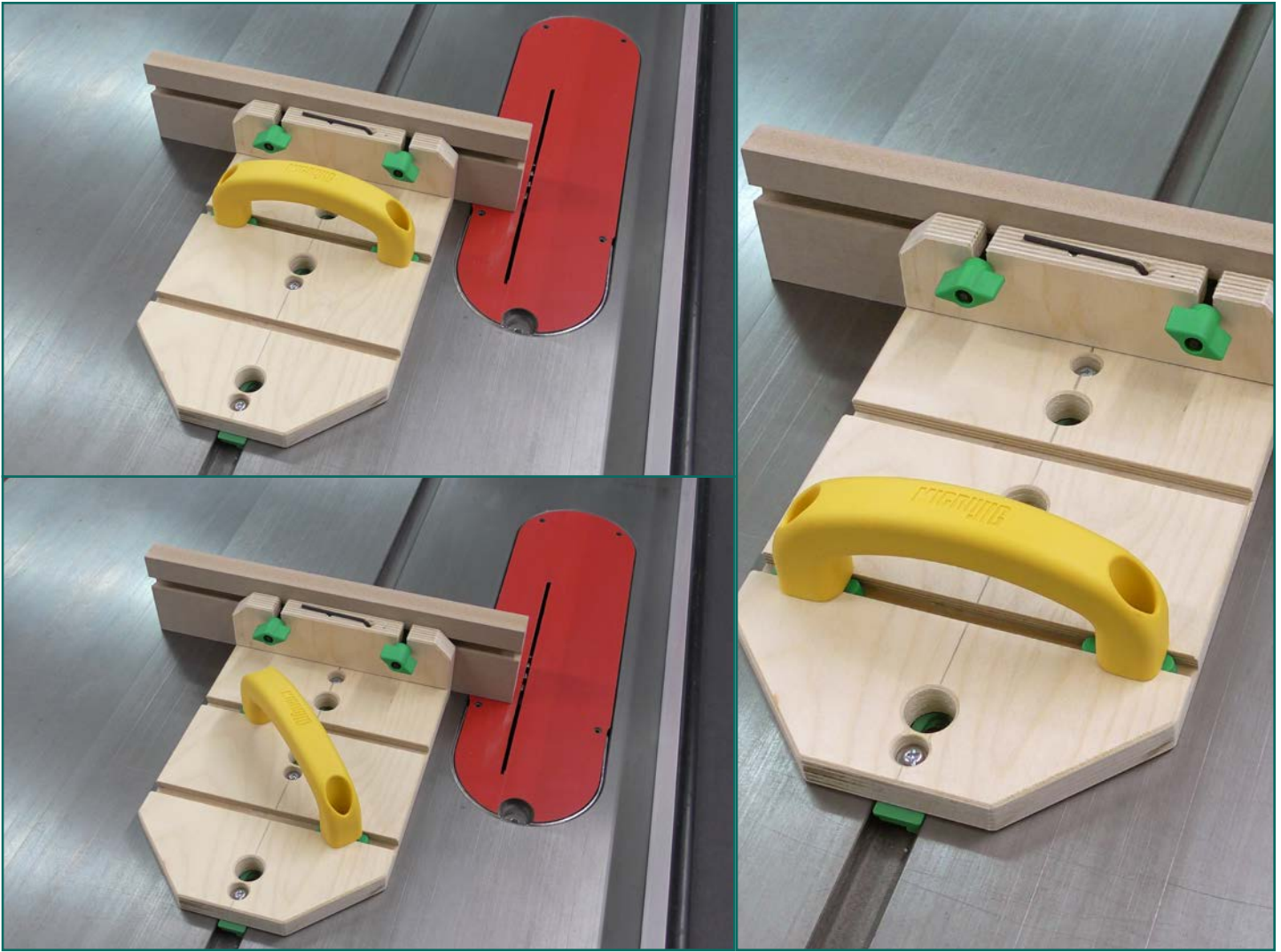




Utility Sled Plan





We developed this sled to use for cross cutting tasks during live demonstrations at stores and trade shows. We found it to be useful at the table saw when we needed square cuts without needing to adjust much. We also love using it at the router table for coping cuts and other tasks requiring a good backer for the stock.

Since our new ZEROPLAY ZP750 Miter Bar is calibrated to fit your miter slots from above while mounted to the sled, it only takes a few seconds to recalibrate the Miter Bar when moving from router table to table saw to band saw as needed. Not many sleds can easily be used on all three machines.

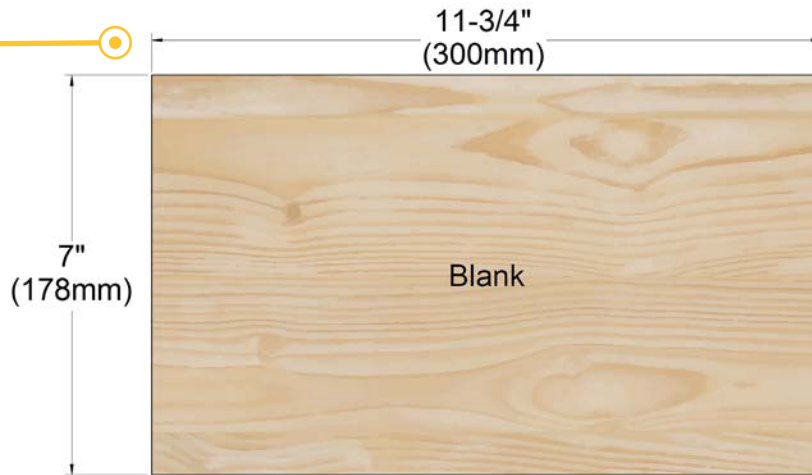
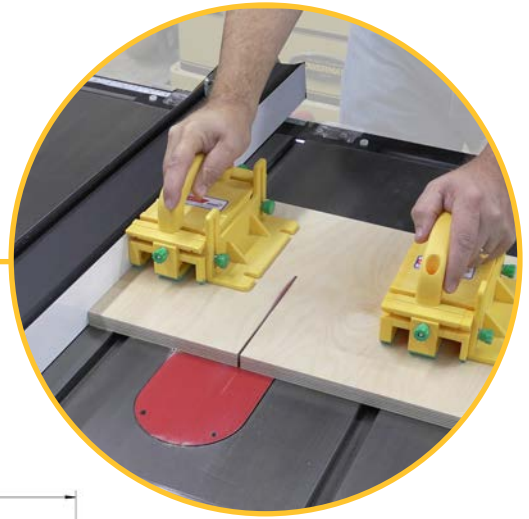
The ZEROPLAY 360 Sled kit, combined with our Jig Handle, is ideal for making this sled.

The best sleds feature a secure, comfortable handle that provides control during use, and now our MATCHFIT Jig Handle is available to add to this sled or any other you may make. This sled features two dovetail slots in the base, so the handle can be mounted forward, toward the back, or even at 45 degrees to best fit your needs and grip.

Let's get building!

Step 1:

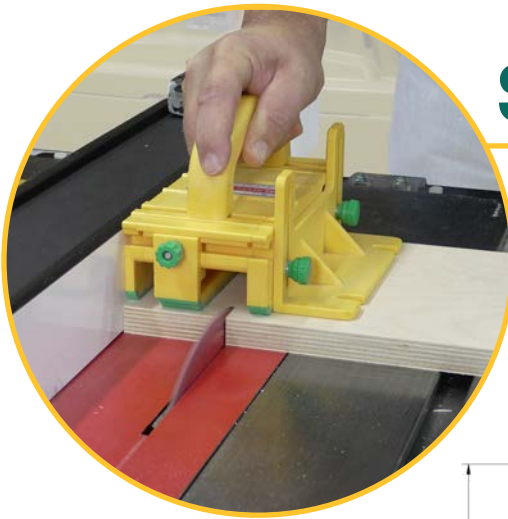
This utility sled can be made from any good quality 3/4" plywood. Cut a blank 7" (178mm) wide by 11-3/4" (300mm) long.



Step 1

Step 2:

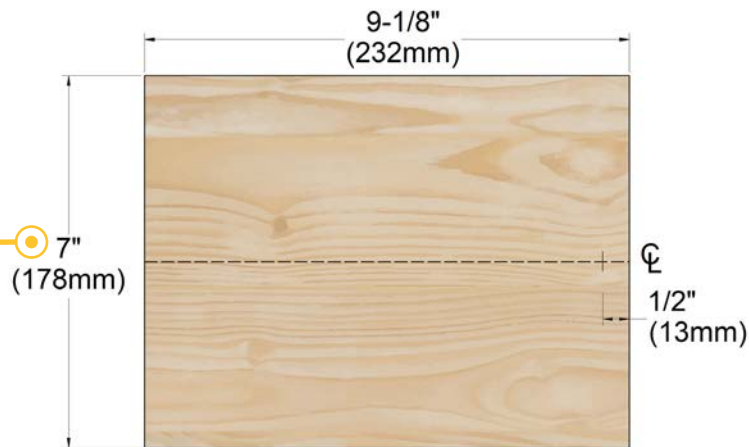
Cross cut one end off at 2-1/2" (65mm) wide. The larger part will form the base of the sled, and the narrow one will become the upright that holds the fence.



Step 2

Step 3:

Mark a center line along the length of the base, then mark it 1/2" (13mm) from the front edge of the base. This will be the first mounting hole for the ZEROPLAY Miter Bar.

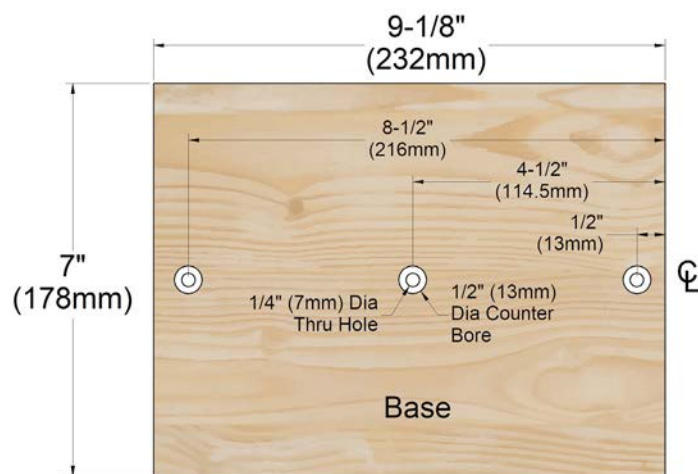


Step 3

Step 4:

Mark and drill the three counter bored mounting holes according to the instructions that came with your green ZEROPLAY Miter Bar. You can download the Drill Template from our website: <https://www.microjig.com/user-manuals>

Using the ZEROPLAY 2-Step Router Bit in your drill press will make the perfect mounting holes every time.

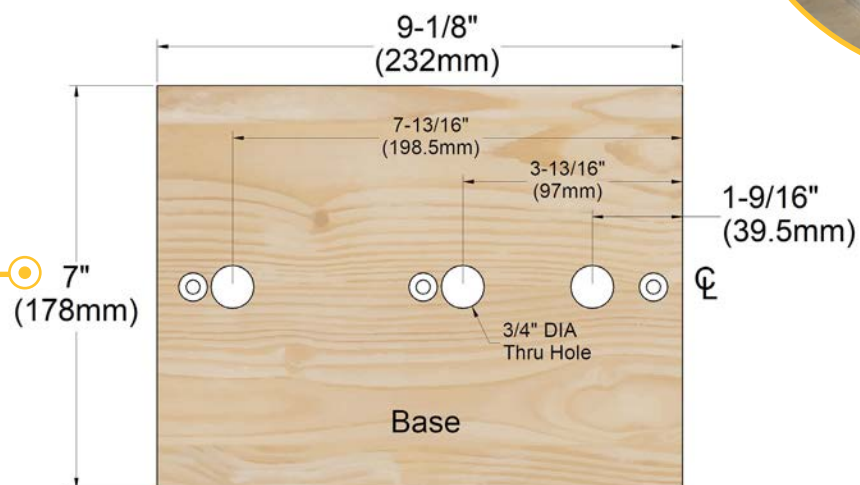


Step 4



Step 5:

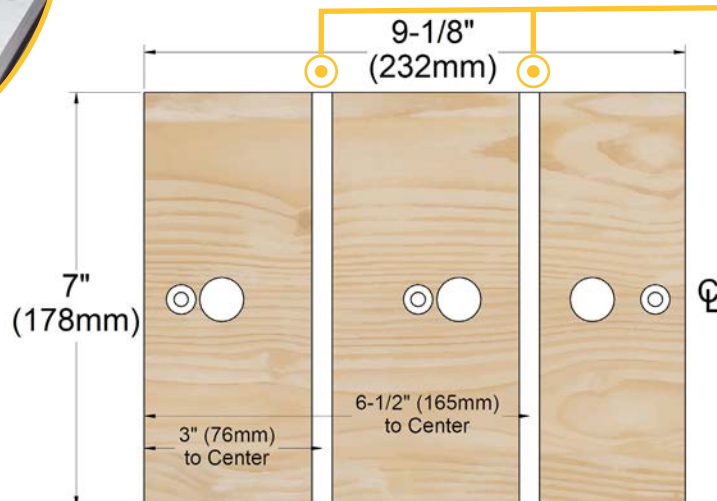
Next drill the three, 3/4" (19mm) diameter adjustment holes through the center line of the base as shown on the drilling template.



Step 5

Step 6:

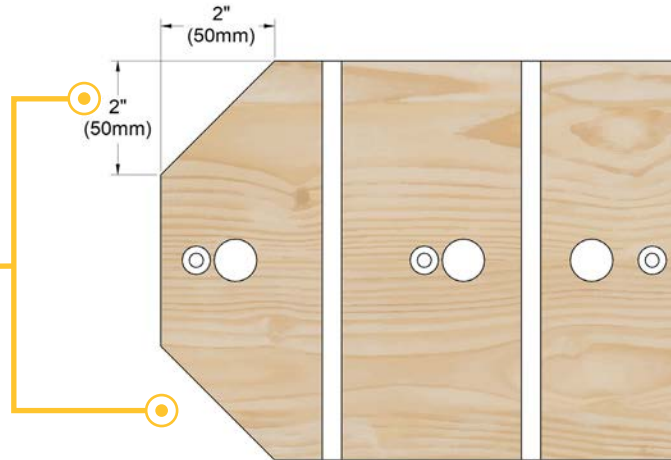
It is easiest to mill the dovetail slots into the base at this point. Cut a relief slot at 3" and 6-1/2" in from the back edge of the base. Using the same center lines, mill the MATCHFIT 1/2" wide, 14 degree dovetail groove profile.



Step 6

Step 7:

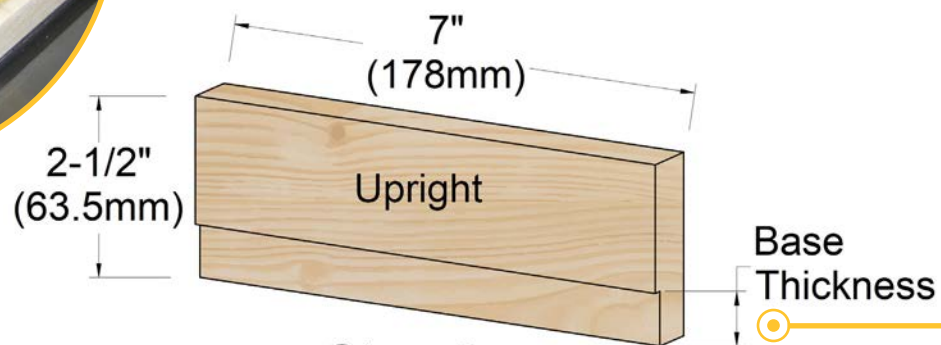
Cut the rear corners of the base as shown and ease the edges slightly. Leave the front edge of the base square, this is where the upright will be attached.



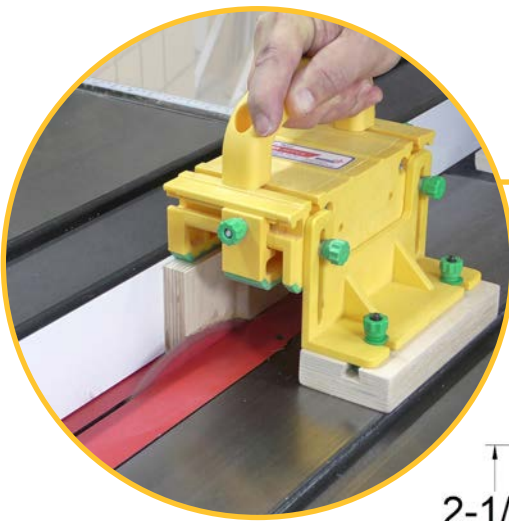
Step 7

Step 8:

Set the saw height to equal the thickness of the base, then cut a 1/8" (3mm) deep rabbet along the lower edge of the upright.

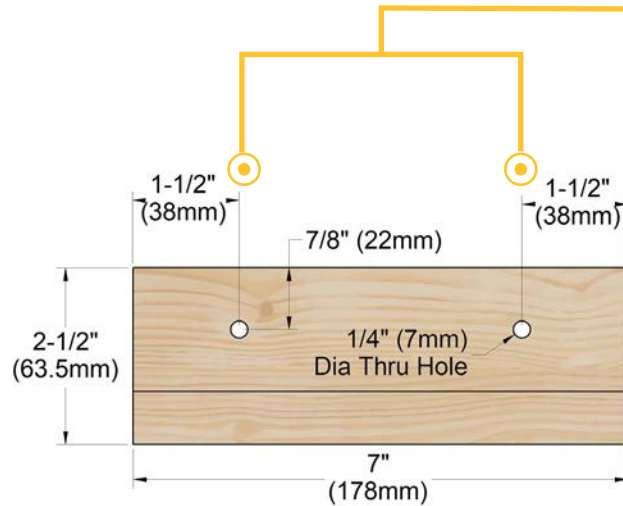


Step 8



Step 9:

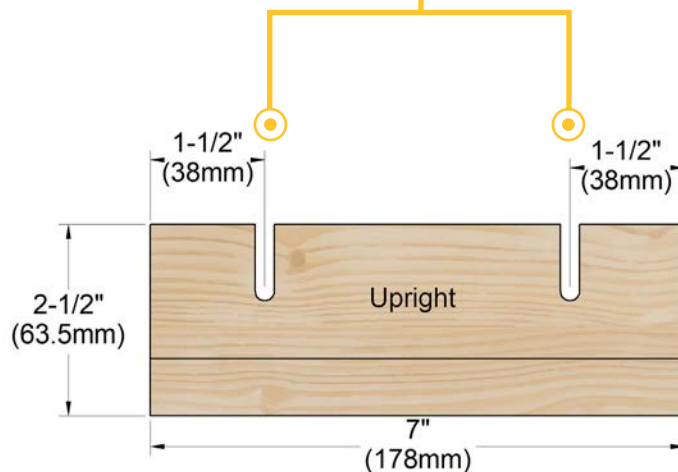
Drill two 1/4" (7mm) diameter through holes in the upright, 7/8" (22mm) from the top edge and 1-1/2" (38mm) in from each end.



Step 9

Step 10:

Cut away the waste from the top edge of the upright down to these holes to form slots for the MATCHFIT Dovetail Hardware.

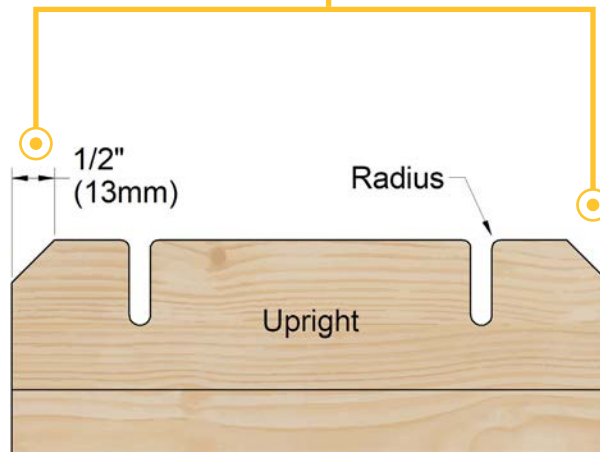


Step 10



Step 11:

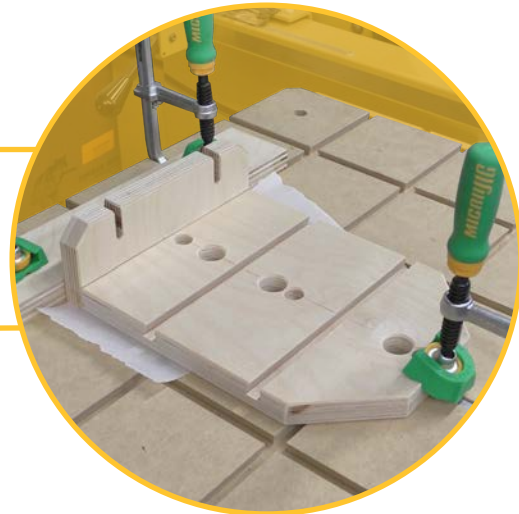
Trim the top corners of the upright and ease all the sharp edges, leaving the bottom edge square.



Step 11

Step 12:

Glue the upright to front edge of base. Make sure it is square to the base and flush with, or just above, the bottom of the base.



Step 13:

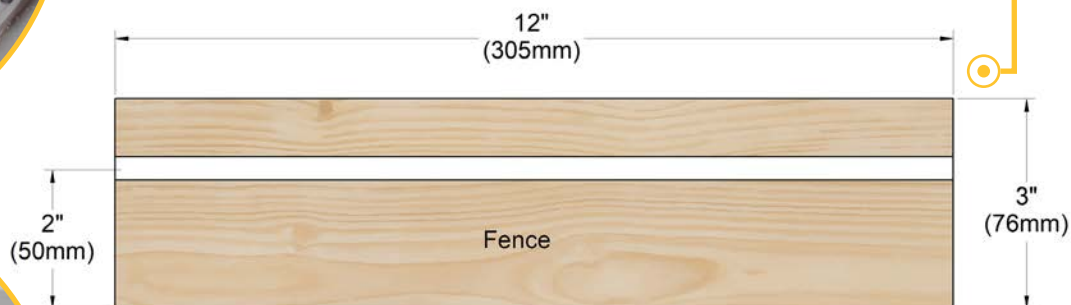
A movable fence is cut to 3" (76mm) by 12" (300mm) from MDF or plywood.



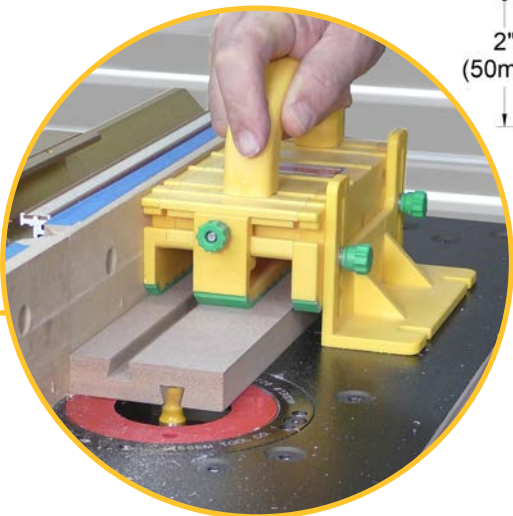
Step 13

Step 14:

Mill a relief groove in fence blank 2" (50mm) from the bottom on each face, then mill the MATCHFIT Dovetail Grooves along the same lines. The two grooves allow for adding a stop block to the fence face.



Step 14



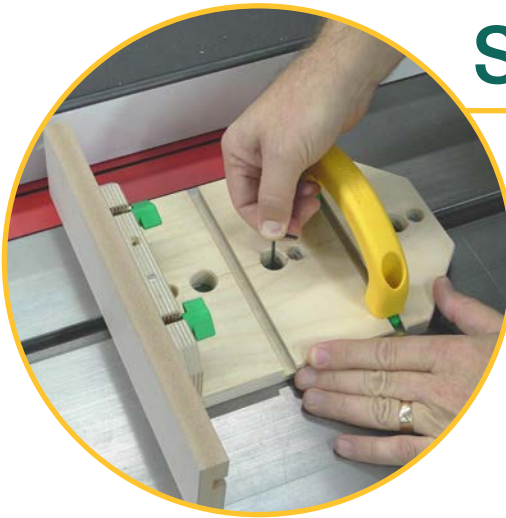
Step 15:

Attach the fence to sled using 1-1/2" MATCHFIT Track screws.



Step 16:

Mount the green ZEROPLAY Miter bar to the underside of the sled base and adjust the fit according to the instructions that came with it. The instructions can also be downloaded from our website: <https://www.microjig.com/user-manuals>



Step 17:

Loosen the mounting screws, square the sled to the rip fence, and re-tighten the screws.



Step 18:

The movable fence can be adjusted side to side as needed by loosening the nuts on the Track Screws. This fence is sacrificial and is long enough to be trimmed as the ends get cut into.





The sled can be used on any tool that has a standard 3/4" miter slot.



Optional: If you are going to move your Utility Sled from machine to machine, you can set it up so the hex wrench that comes with the ZEROPLAY stores on the sled. Just drill a 1/8" (3mm) hole for the short leg of the wrench, and another hole for a small magnet to hold the wrench. We used a 6mm magnet on in our sled. Countersinking the 1/8" (3mm) hole allows the wrench to lay flat on the magnet.



In use, the MATCHFIT Jig Handle can be mounted in the forward slot, in the rear slot, or angled to 45 degrees in either direction by using both slots.

Parts List:

Base: 9-1/8" (232mm) by 7" (178mm) good quality 3/4" (18mm) plywood.
Upright: 7" (178mm) by 2-1/2" (65mm) good quality 3/4" (18mm) plywood.
Movable Fence: 12" (300mm) by 3" (76mm) MDF or plywood (this fence is sacrificial)

ZEROPLAY Miter Bar [ZP750](#)
 MATCHFIT 1.5" Track Screws
 MATCHFIT Jig Handle

or

you can use the
 ZEROPLAY 360 Sled Kit
 MATCHFIT Jig Handle