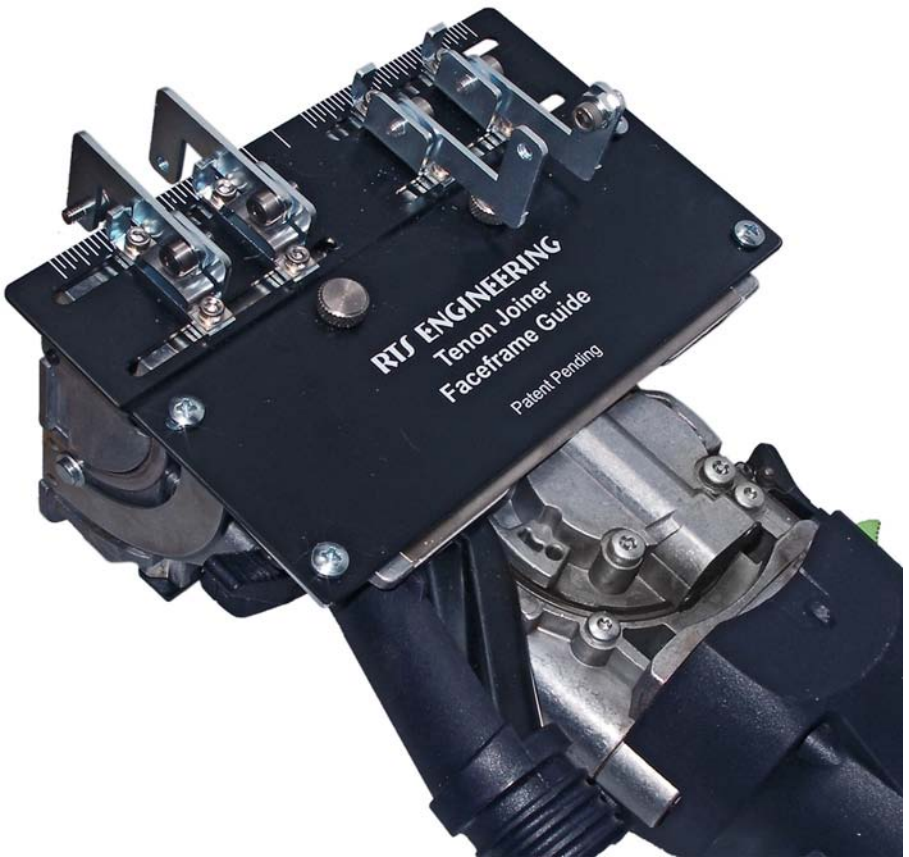


RTS ENGINEERING

MGS-20
Multi-position
Guide Stop

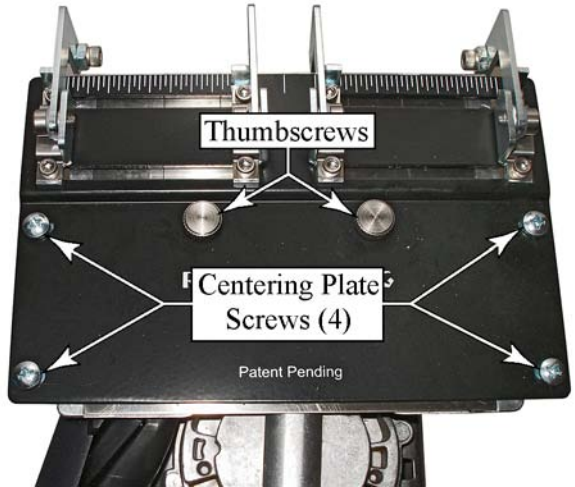


Owner's Manual

Centering Plate Setup

It is important that you position the Centering Plates to fit your Domino. If you do not do this, your stop positions will be off every time you reinstall the guide to your Domino.

1. Turn the Domino joiner upside down, place the MGS-20 on the base, and begin tightening the two thumbscrews to secure it in place.
2. Just before the thumbscrews are fully tightened, make sure the MGS-20 is straight and reasonably centered, and then tighten the thumbscrews. (It is not necessary to have the MGS-20 perfectly centered.)



3. Loosen the four Centering plate mounting screws and slide the centering plates inward so they are firmly pressed against the sides of the Domino base.
4. Starting from the upper right hand screw (as viewed above) and working in a clockwise sequence, retighten the screws. This sequence helps keep the plates tight to the base as you tighten the screws.

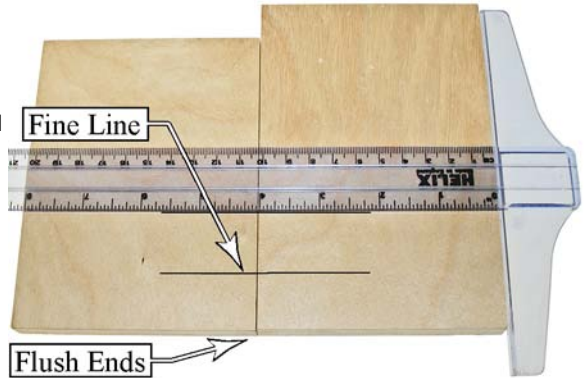
Stop Position Setup

To set the stop positions, you will need a 7/64" hex key, two blocks of wood approximately 4" x 6" (100mm x 150mm), and a small clamp. The procedure uses your Domino's sight gauge, and includes steps to compensate for any errors in the sight gauge position. If you know that your sight gauge is properly calibrated, you can skip steps 2, 3, and 4 below.

1. Butt the two pieces of wood together along their longer edge and with their ends flush at one end (as shown in the upper picture on the next page). If you know that your sight gauge is accurate, skip directly to step 5.
2. Using a square, scribe a pencil line across both pieces about an inch or two away from the flushed ends.
3. Using the narrow position of the Domino, carefully plunge a mortise at the pencil lines to join the two boards. Use a tenon to join them, but do not glue them. Don't worry that the ends are not flush. This error will be cancelled out in the remainder of the procedure.
4. Turn the pieces over so your original pencil line is facing down, but keep track of which end was originally flush, as this will be used as the reference end.

5. Using a square, scribe one line across both boards for each position stop location that you need, measured from the flushed ends.
- ▶ If the ends of the boards are not flush (from steps 2 through 4 above), then when measuring your distances, split the difference between the two ends. Draw only one line per position across both boards.

6. Separate the two boards, and place one of them on the Domino with the scribed pencil line aligned with the sight gauge, and carefully clamp the board to the Domino's fence.

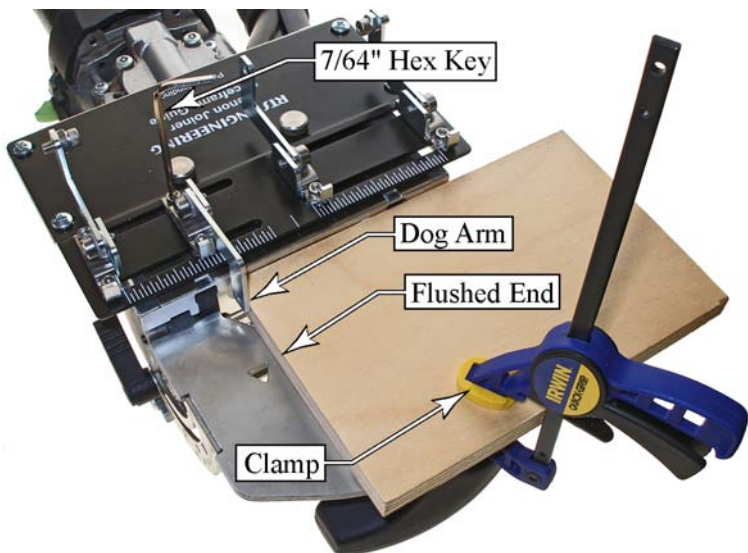


7. Loosen the two clamping screws on the Stop assembly to be adjusted, but be careful not to unscrew them from the nutplate (no more than 2 turns).

8. Slide the Dog Arm up against the end of the board and retighten the clamping screws.

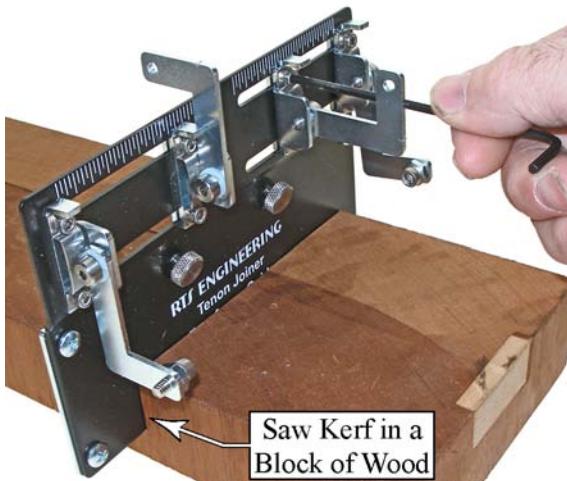
- ▶ Keep the dog arm biased against the block of wood while tightening the screws.
- ▶ You may find it easier to tighten the screw furthest from the dog arm first, and apply a slight bias toward the wood as you tighten the second screw.
- ▶ Raise and lower the Dog Arm to verify that it just touches the edge of the wood.

9. Use the other block of wood to set the mating Stop position, and repeat steps 7 and 8.



Installing Stop Assemblies

1. Remove the MGS-20 from your Domino.
2. You may find it easier to work on the MGS-20 while it is standing upright, such as resting in a saw-kerf cut into a thick block of wood (as shown).
3. Rotate the Dog Arm to the vertical (center) position. This position has the lowest spring pressure on the Dog Arm.
4. To remove the nutplate, loosen the two clamping screws just enough to free the nutplate, but be careful to not remove them from their bracket, as this would allow the detent spring to expand.
5. Leave the lower screw partially retracted from step 4, but turn the upper screw (as viewed in the picture) until it is fully extended through the bracket.
6. Using your 7/64" hex key to hold the bracket to the MGS-20 baseplate with one hand, hold the nutplate with your other hand, and begin threading the clamping screw into the nutplate.
7. After the top clamping screw is threaded into the nutplate but before tightening it, thread the lower clamping screw into the nutplate, and then tighten both screws.



Notes

- ▶ If you need two Stop positions closer together than 3/8", install a spacing screw (the MGS-20 come with spacing screws pre-installed in the outer two Dog Arms) into the outer of the two Dog Arms. If the pre-installed spacing screws are not needed for normal operation, they may be removed.
- ▶ If you have any questions or concerns with your MGS-20, send me an email at sales@dominoguide.com

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Patent Pending