

The Neat II Lock - fitting instructions

The world's best box lock

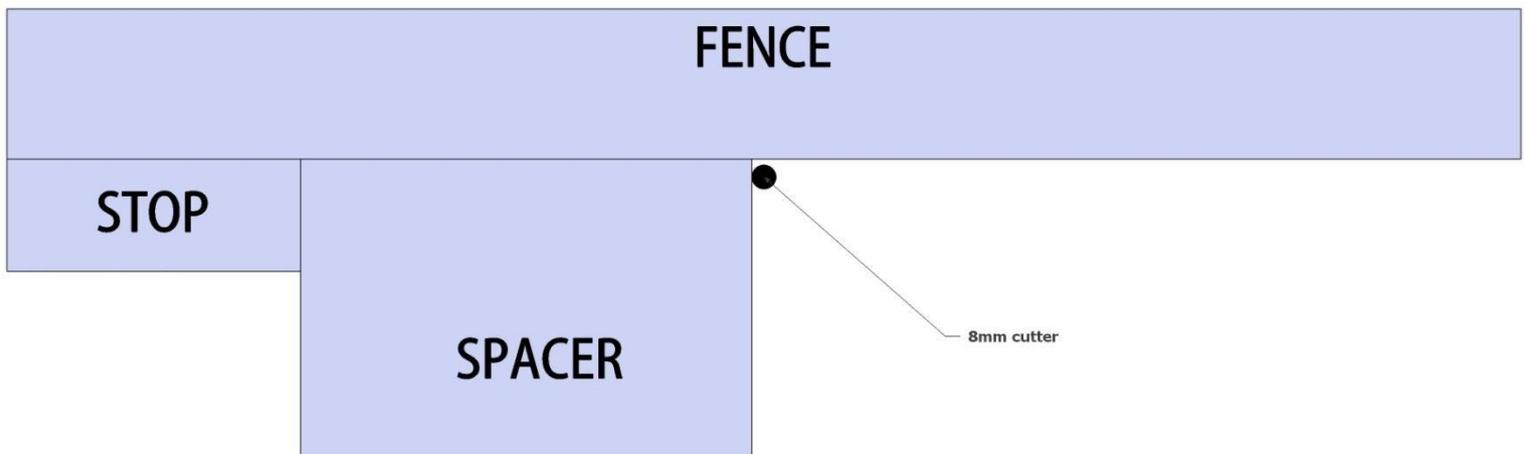
(Test with scrap first – minimum box thickness 10mm)

Make sure to fit your hinges first and double check that when the lid is closed there is no gap at the front (which could mean your hinges are in too deep or the lid was not flat on the base to begin with) and that sides line up.

Fit a 8mm downcut spiral cutter in your router table. Measure the box thickness and subtract 8mm from it – set the distance between your bit and fence to half this. Set the depth of cut to **exactly 3mm** (**this is very important** - if you go too deep you can always add some tape to the underneath to bring it to the correct height).

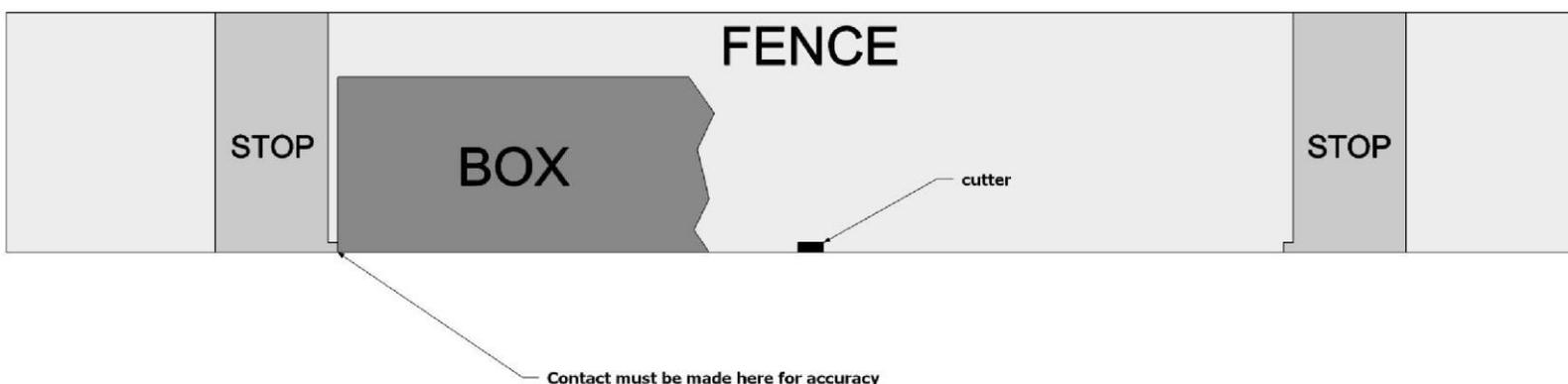
Next to setup each stop use the following method for the **correct spacer width**.

1. Measure the exact **length of your box**.
2. Add the **length of your lock 76mm** (eg if your box measures 300mm, adding 76 mm for the lock gives 376mm).
3. **Divide the total by 2** (eg $376/2 = 188\text{mm}$).
4. **Subtract $\frac{1}{2}$ the cutter diameter** to find the spacer width (eg $188\text{mm} - 4\text{mm} = 184\text{mm}$).
5. cut a piece of mdf to create the **exact spacer width**.



Correct Spacer Width = $\frac{(\text{box length} + \text{lock length})}{2}$ - minus $\frac{1}{2}$ cutter diameter

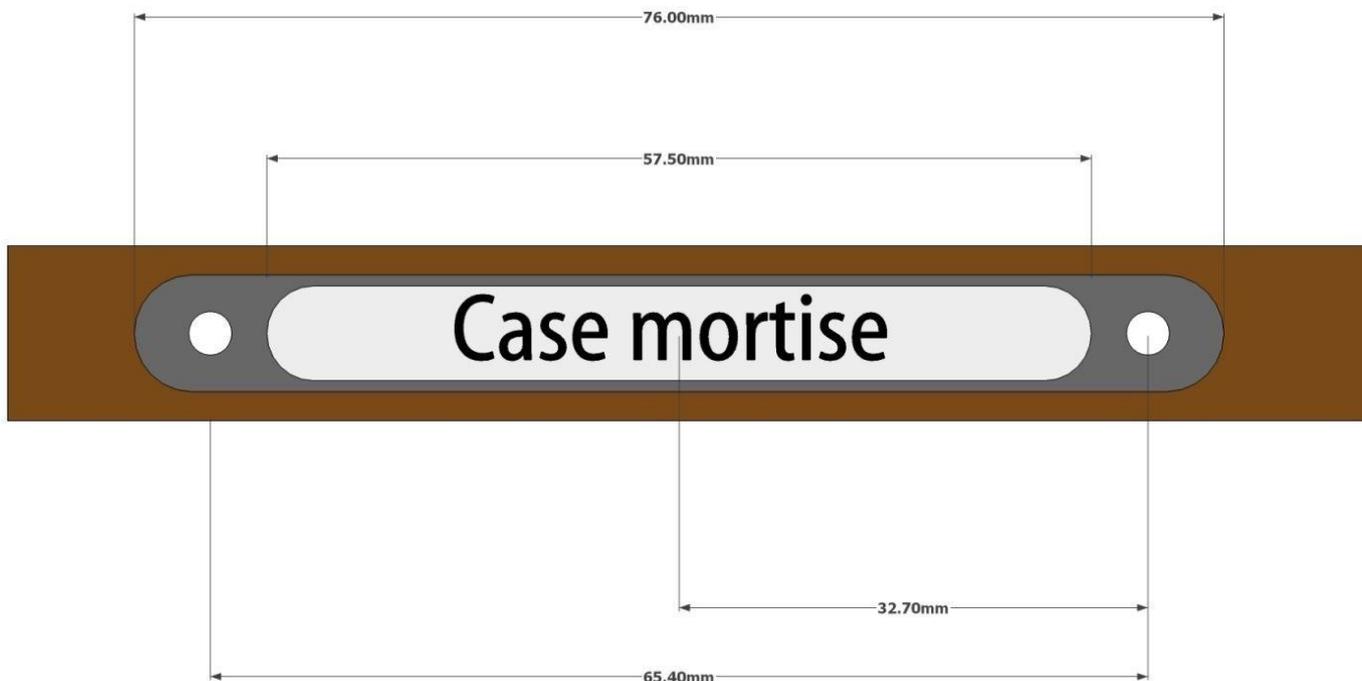
Divide by 2



Once you have your spacer rotate your cutter so its outermost cutting edge is towards the side you are going to setup, then take the spacer which has now been cut to the correct size using the above method and set this stop (be sure your stop makes contact with the part of your box that is closest to the table - see image at bottom of page). Proceed by setting the opposing side with the same spacer. Then cut a piece of scrape MDF to the exact length as your box and make a test cut. If everything was carried out correctly the lock should be a great fit. From this test cut you can also check the router bit depth of cut fitting your lock plate in and checking that it is perfectly flush - and that the fence is the correct distance from the bit. Now cut the mortises for top and bottom.

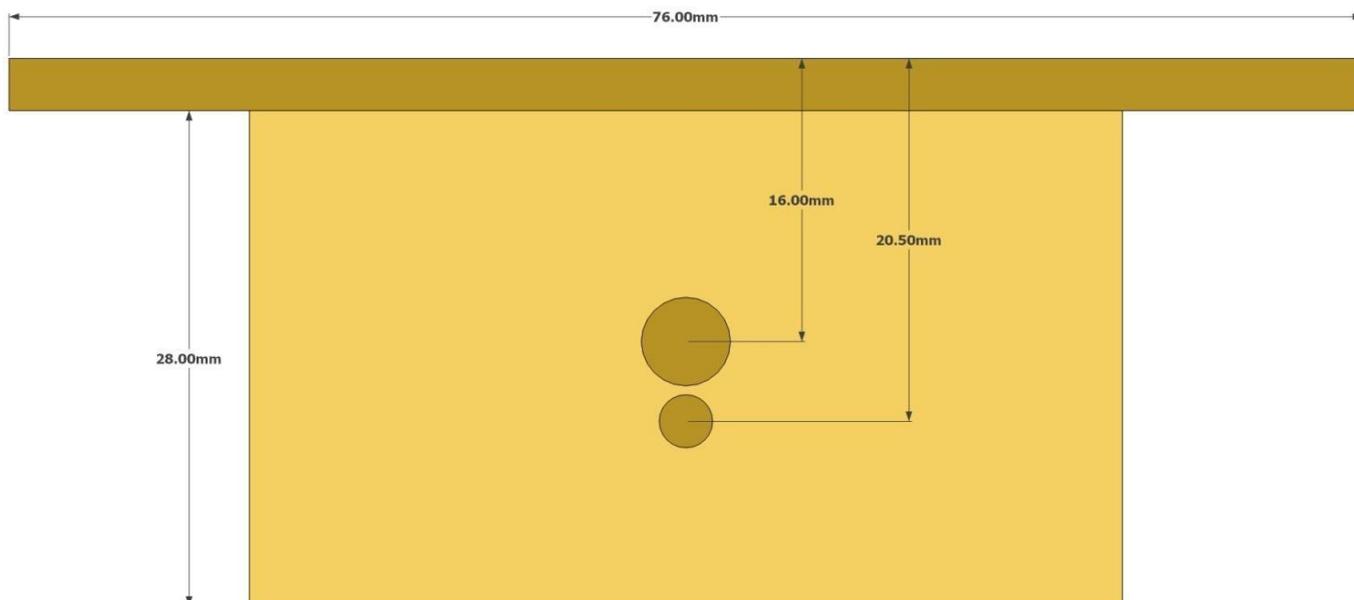
Case

Drill out at the drill press with a 6.5mm bit to a depth of 28.5mm. Drill the holes and you're nearly there.



Keyhole

The Keyhole can be cut cleanly using a 5mm and a 3mm lip & spur bits. Measure from the edge down to 16mm and mark with a sharp pointed awl. Next measure down from the edge again 20.5mm and again mark with an awl. Remove your lock and add a piece of scrap to the case mortise with the same thickness as the lock case. This will prevent tear-out when drilling the following holes. Drill your 3mm hole first and then the 5mm hole and joint up using a jewellers file. Complete the process by shaping the keyhole for a more traditional look or leave as is.



Your new Neat II lock allows for side to side movement if you have drilled the key hole slightly off. Add the lock case and then the polished lock plate. Look through your keyhole and if needed move the pin to the exact centre and then fit your polished screws. Queries: Please email contactus@jewelleryboxhardware or tel **028 90 836 987**.