



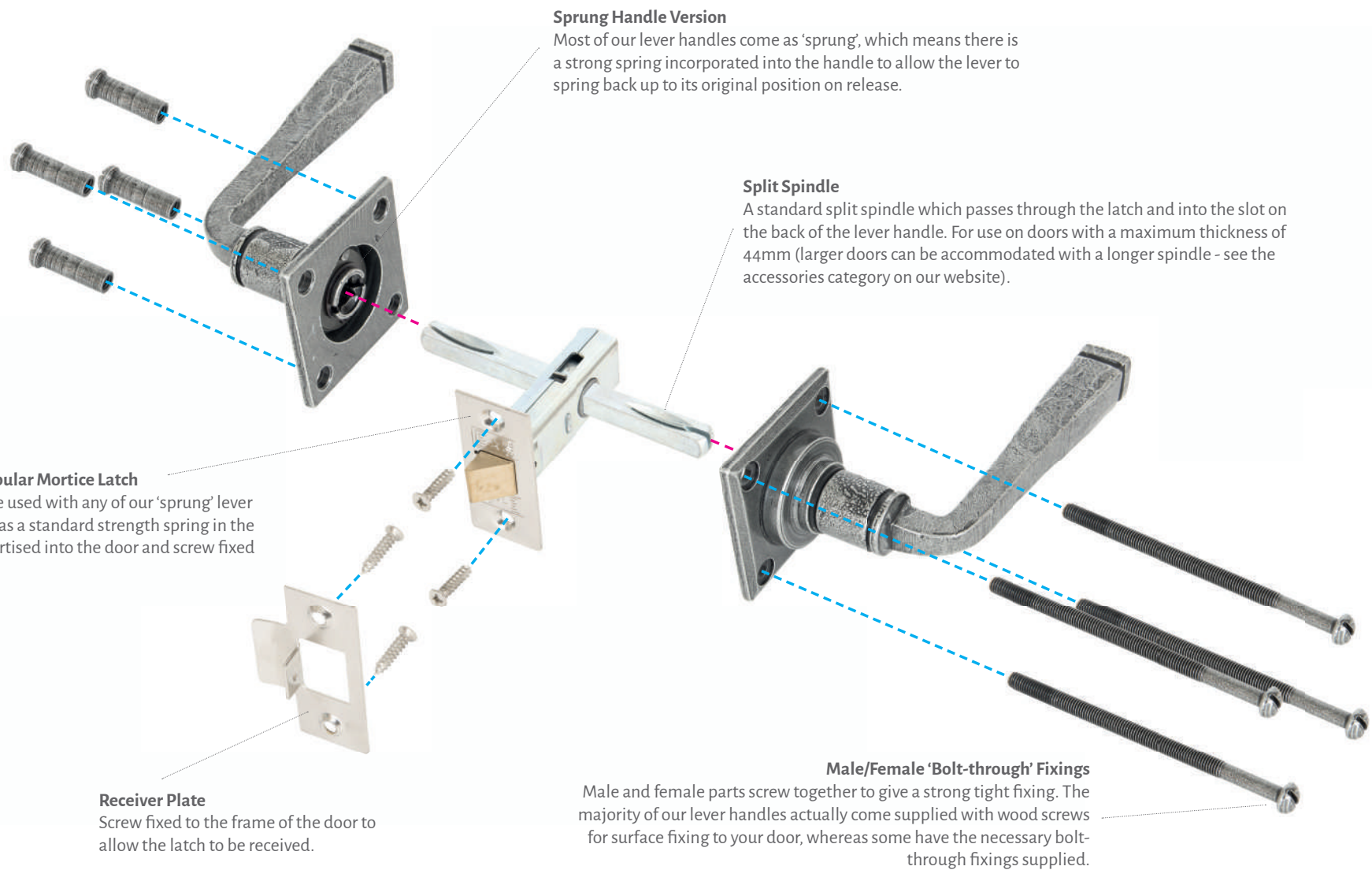
latches

The Complete Guide

Helping you through the process of getting the right product for your needs.

- Contents**
- Choosing the right latch for your needs
 - How the latch works with your door furniture
 - Latch sizing guide
 - Step-by-step guide to fitting a mortice latch

From the
Anvil[®]
Specialist Manufacturers of Ironmongery & Lighting



Sprung Handle Version
 Most of our lever handles come as 'sprung', which means there is a strong spring incorporated into the handle to allow the lever to spring back up to its original position on release.

Split Spindle
 A standard split spindle which passes through the latch and into the slot on the back of the lever handle. For use on doors with a maximum thickness of 44mm (larger doors can be accommodated with a longer spindle - see the accessories category on our website).



'Standard' Tubular Mortice Latch
 Designed to be used with any of our 'sprung' lever handles as it has a standard strength spring in the case. To be mortised into the door and screw fixed in place.

Receiver Plate
 Screw fixed to the frame of the door to allow the latch to be received.

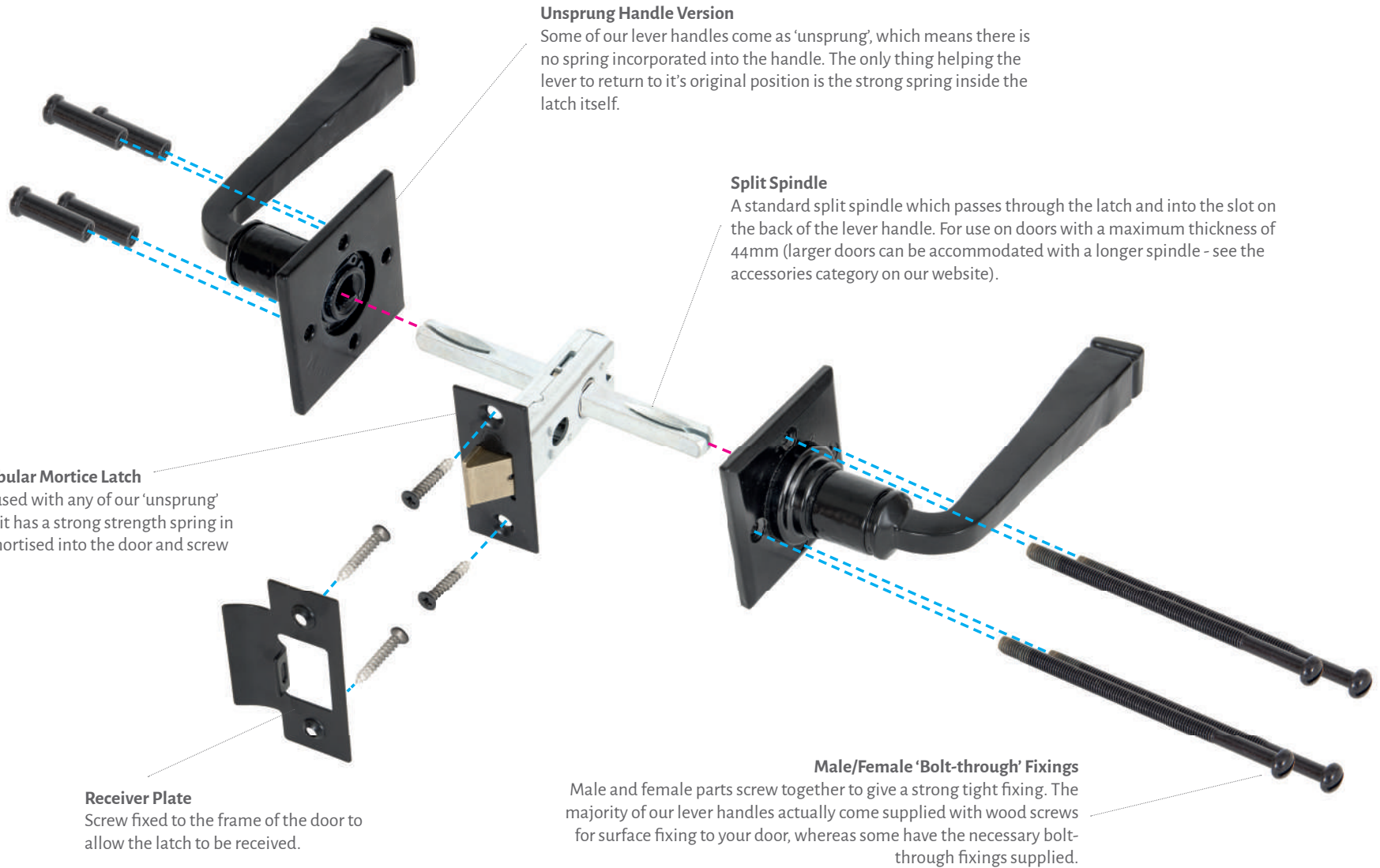
Male/Female 'Bolt-through' Fixings
 Male and female parts screw together to give a strong tight fixing. The majority of our lever handles actually come supplied with wood screws for surface fixing to your door, whereas some have the necessary bolt-through fixings supplied.

Tubular Mortice Latch - Standard

A standard tubular mortice latch for use with any of our 'Sprung' lever latch handles. The standard spring inside the latch helps the spring fitted internally in the lever handle to return the lever to its original position.

 Product Assembly
 Screw or Bolt Fixings





Unsprung Handle Version

Some of our lever handles come as 'unsprung', which means there is no spring incorporated into the handle. The only thing helping the lever to return to it's original position is the strong spring inside the latch itself.

Split Spindle

A standard split spindle which passes through the latch and into the slot on the back of the lever handle. For use on doors with a maximum thickness of 44mm (larger doors can be accommodated with a longer spindle - see the accessories category on our website).

'Heavy Duty' Tubular Mortice Latch

Designed to be used with any of our 'unsprung' lever handles as it has a strong strength spring in the case. To be mortised into the door and screw fixed in place.

Receiver Plate

Screw fixed to the frame of the door to allow the latch to be received.

Male/Female 'Bolt-through' Fixings

Male and female parts screw together to give a strong tight fixing. The majority of our lever handles actually come supplied with wood screws for surface fixing to your door, whereas some have the necessary bolt-through fixings supplied.

Tubular Mortice Latch - Heavy Duty

A heavy duty tubular mortice latch for use with any of our 'Unsprung' lever latch handles or door knob sets. The heavy duty spring inside the latch helps to return the lever back to its original position once used as there is no internal spring inside the ironmongery.

Product Assembly

Screw or Bolt Fixings





2.5" Latch
Backset: 44mm

This means the centre of your door knob or lever handle will be positioned 44mm away from the edge of your door.



3" Latch
Backset: 56mm

This means the centre of your door knob or lever handle will be positioned 56mm away from the edge of your door.



4" Latch
Backset: 81mm

This means the centre of your door knob or lever handle will be positioned 81mm away from the edge of your door.



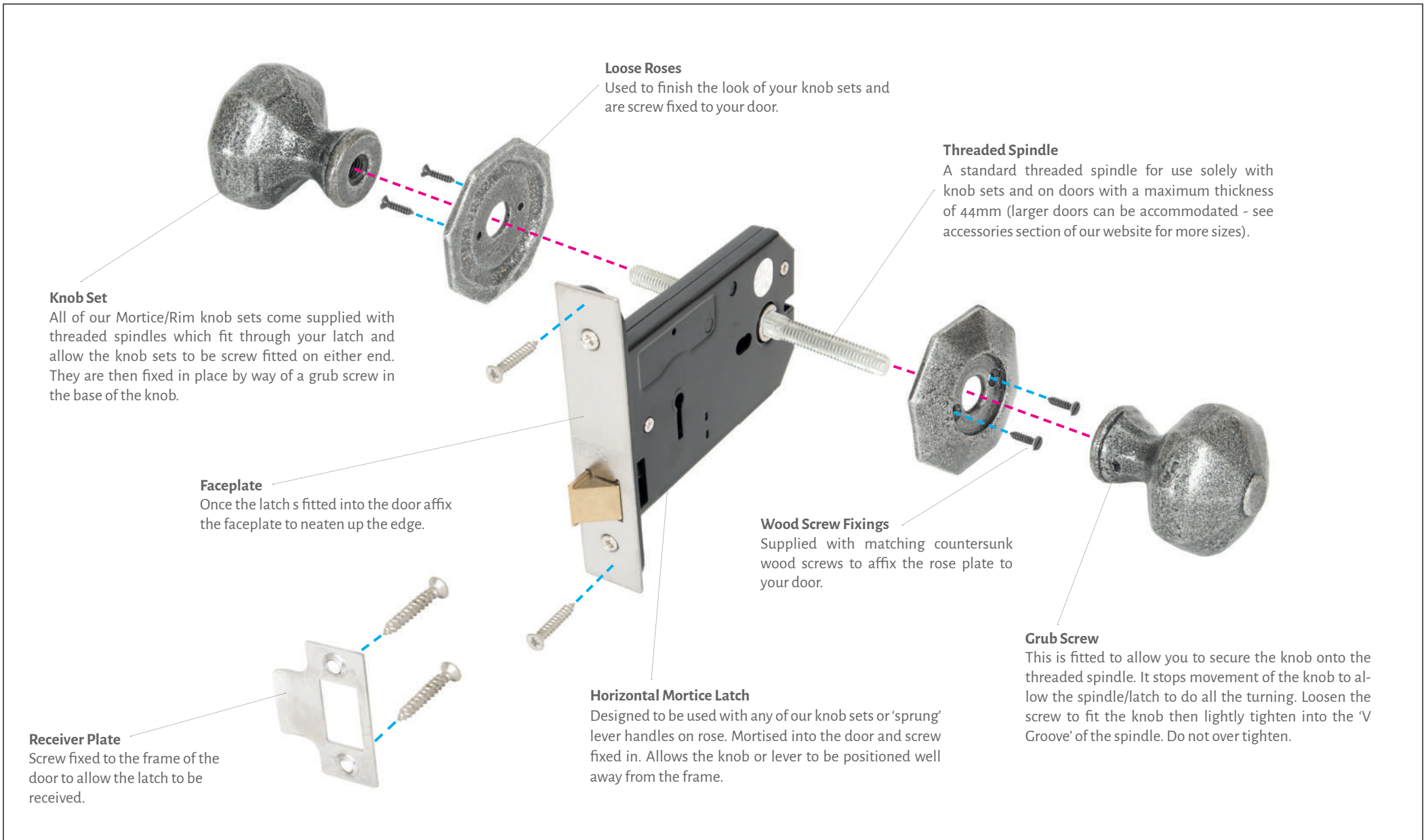
5" Latch
Backset: 106mm

This means the centre of your door knob or lever handle will be positioned 106mm away from the edge of your door.

Tubular Mortice Latch - Sizing Guide

The measurement in the latch name (2.5", 3" etc.) refers to the actual size of the latches case, whereas the critical measurement for positioning of your knob set or lever handle is the 'Backset'. This backset dictates the position of your ironmongery in relation to the edge of your

door. When choosing a latch for use with a knob set we strongly recommend using a 3" latch or bigger to avoid scraping your knuckles on any door architrave or moulding when you turn the knob to open the door. A 3" latch should give you enough clearance to avoid this.



Horizontal Latch - 3 Lever

A standard 3 lever horizontal latch ideal for use with door knob sets or any lever handles on rose. Due to where the latch positions the spindle it means this is ideal to keep the door knob set or lever handle on rose well away from the edge and therefore the frame of your door. Avoids knuckles being scraped against architrave when opening your door.

Product Assembly

Screw or Bolt Fixings

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2.5" Latch
Backset: 44mm

This means the centre of your door knob or lever handle will be positioned 44mm away from the edge of your door. If your knob set is too close to the edge of the door you may bang or scrape your knuckles on the architrave each time you open the door.



5" Horizontal Latch
Backset: 102mm

This means the centre of your door knob or lever handle will be positioned 102mm away from the edge of your door. This is useful to stop the user scraping or banging their knuckles when operating the door.

Horizontal Latch - 3 Lever

The measurement in the latch name (2.5", 5" etc.) refers to the actual size of the latches case, whereas the critical measurement for positioning of your knob set or lever handle is the 'Backset'. This backset dictates the position of your ironmongery in relation to the edge of your door. When choosing a

latch for use with a knob set we strongly recommend using a 3" latch or bigger to avoid scraping your knuckles on any door architrave or moulding when you turn the knob to open the door. A big latch should give you enough clearance to avoid this and the horizontal latch would do the job perfectly.



Fitting

The How-to Guide

Now you have chosen the right latch for your needs it is time to fit it to a door in your home. In this step-by-step guide we show you what you need and how to go about fitting it.

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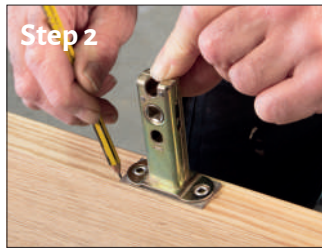


Step 1

Step 1 is to mark out the position of your latch.

This is decided by the height at which you want your door handle/knob to be and can be varied depending on what is a comfortable height.

Mark a cross at the required height and centrally on the edge of door.



Step 2

With the square face plate held onto the latch position on your pencil mark and centrally on the edge of the door.

Draw around the square faceplate with a pencil taking care to make sure all is central and not too close to the edge.



Step 3

Using your pencil cross which should be centred in the outline of the latch faceplate drill into the door edge using an auger drill bit.

The size of bit depends on the size of the latch casing so make sure it is big enough so that the latch will slide into the door easily. It is worth doing this drilling now as when you start chiselling all pencil marks will be removed.



Step 4

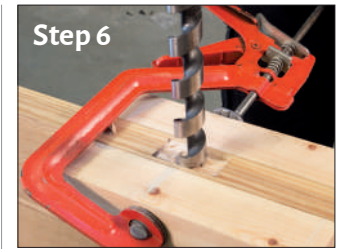
Depending on the thickness of your door it may be worth bracing the door with some scrap wood and a G clamp as the latch faceplate might be very close to the edge of the door.

Start by carefully chiselling around the outline pencil marks of the faceplate.



Step 5

Once the outline has been made begin to carefully chisel out enough of the door edge so that the latch and faceplate will sit flush with the surface.



Step 6

Using the pre-drilled hole you may want to re-drill using the same auger bit just to make sure the latch casing will fit properly and to the right depth also.



Step 7

The next step is to get position for the spindle which passes through the door latch and connects your two handles together.

Start by holding the latch along the face of your door in the correct position to line up with the drilled hole etc. Using a pencil, draw a mark through the spindle hole in the latch.



Step 8

Using the mark you have just made through the spindle hole of the latch it is time to drill all the way through the door. This allows the spindle to pass from one handle through the door, operate the latch and connect the handle on the other side.

Using an auger bit drill a hole big enough for a 7/8mm spindle to pass through.



Step 9

Now is the time to insert the latch with it's faceplate into the edge of the door and make sure everything fits flush.

Hopefully if every step is followed all should fit well at this stage.



Step 10

With the faceplate in position drill pilot holes and fix the latch in place using the screws provided.



Step 11

You can now fit your handle or knob set at this stage if you so wish and also time to hang your doors with butt hinges (see our other fitting guides for these processes).

Now is the time to fit the receiver or keep into the frame of the door. Start by closing door up to the frame and marking where the latch hits with a pencil.



Step 12

After marking the top and bottom of the latch open the door and continue the marks around the door frame to get final resting position of your latch.

Tubular Mortice Latch - Fitting Guide

These step by step instructions are designed as a guide only and the steps can be varied depending on what it is you are fitting. For the purpose of this guide we have fitted a 2.5" Heavy Duty Tubular Mortice Latch to a solid oak door and using Lever Latch Handle. Most of the same principles apply for other latches, deadbolts, door locks with some obvious variations in steps depending on the product and whether you are fitting a lever handle or knob set. If you are unsure then please get advice from an experienced carpenter or joiner.



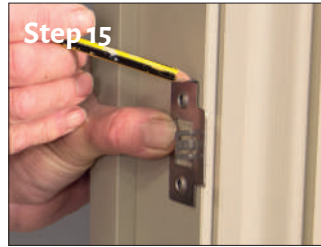
Step 13

A good trick here is to hold up the receiver plate to the position of the faceplate on the latch and mark on the reverse of receiver where the edge of the door sits.



Step 14

After step 13 hold up the receiver plate to your door frame so it is centralised with your latch lines on the wood and the door line on the back of your receiver. This gives excellent position for fitting the plate.



Step 15

Hold the plate firmly in position and with a pencil draw around the outer part of the receiver, the two fixing holes and the hole (for the latch to fit into).



Step 16

Using the outline you have just drawn hold up the black plastic latch tidy to the frame and position centrally in your outline.

This is used to tidy up the appearance of the door frame once you have chiselled and drilled out the wood.



Step 17

With all your marks made it is always a good idea to drill any holes need before you begin any chisel work as all marks will be removed.

Drill pilot holes for the two fixings and for a guide to drill out the frame for the latch to actually sit in.



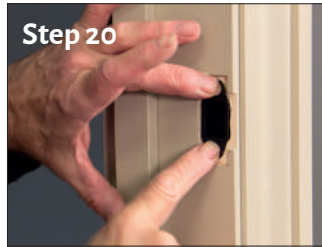
Step 18

Using your guide hole in the centre drill out using an auger bit enough space for the black plastic latch tidy to fit comfortably into.



Step 19

Chisel out the main square area deep enough for the tidy to fit snugly into and proceed to carefully chisel out the outline previously drawn for the receiver plate to sit flush with the surface of your frame.



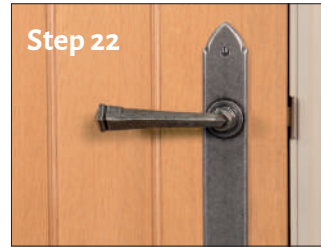
Step 20

Position the latch tidy in place to confirm it all fits well and place the receiver over the top of this.



Step 21

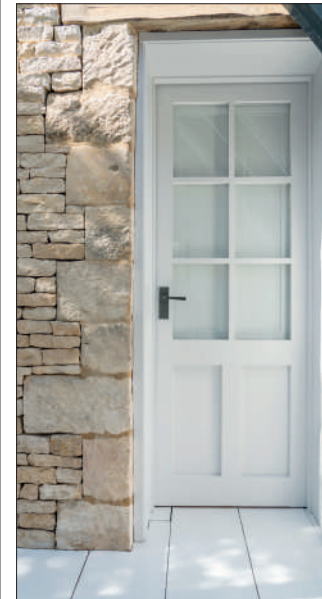
Using your pilot hole from before fix both the tidy and the receiver plate in place using the fixing screws provided.



Step 22

Now is the moment of truth to see if all the steps have been taken and all your hard work has been worth it. If you have fitted your handles or knob set then it is time to test the latch out.

Simply close the door and all being well it should close easily, fit perfectly into the door frame and open just as smoothly.



Tubular Mortice Latch - Fitting Guide

There is a huge choice of latches available so choosing can be a bit of a minefield and depending on what purpose you are looking for will relate to the type of latch you need. For a detailed look into which is the right choice for you see the wealth of information on our website from guides, fitting instructions, videos and FAQ's which provide as much information as possible. If you need any more info then feel free to email us or call our technical team for as much help and guidance as you need when choosing the right product.