

Install a Door Lockset

- Easy to follow step-by-step guide
- Important and handy tips
- Materials check list
- Project cost estimator



Before you begin your exciting new project, please read through this entire pamphlet carefully and estimate and assemble all the materials you will need for the project and gather your tools and equipment together. Refer to the checklist and estimating form on the back panel of the pamphlet to assist in this preparation. If you require any help, please don't hesitate to speak with one of Colli's experienced trade team.

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Installation is dead easy

Providing you with increased peace-of-mind, Deadbolts offer additional security for your external doors and are installed in almost the same manner as the locksets above. To install a deadbolt, simply measure approximately 150mm (6") above the existing entry set to give the two locks optimal positioning.

You can install a door lockset

The following installation procedures refer to entry sets, passage sets and deadbolts for new doors where no existing lockset holes exist previously.

Marking & drilling the holes

- Mark the edge of the door at a height of approximately one metre from the floor. Lockset manufacturers supply a paper or cardboard template with the hardware to help you with the marking out of your door. Place this template squarely on the door (see Fig 1), and using an awl or similar sharp object, mark through the template where the holes are to be drilled. It is a good idea to mark the lockset hole position on both sides of the door to make drilling easier.
- Using a suitably sized holesaw (as per the lock manufacturer's instructions), drill the large hole for the lockset squarely from both sides of the door (see Fig 2). Take care not to drill entirely through the door in one go, as the holesaw will break out pieces of timber as it emerges from the far side of the hole, leaving you with a messy finish to the job.
- Once this drilling is complete, use a spade bit to drill the hole for the latch in the edge of the door. Once again, it is important to check the manufacturer's instructions for the correct diameter latch hole for your lockset, and most will require either a 22mm (7/8") or 25mm (1") diameter. It is important that the latch hole is drilled at 90° to the edge of the door so that the latch operates smoothly (see Fig 3).

Fig 1 Make markings on the door using the template

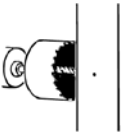
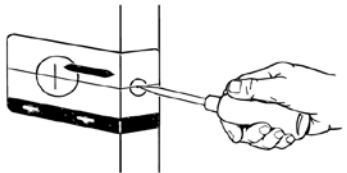
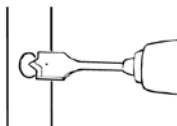


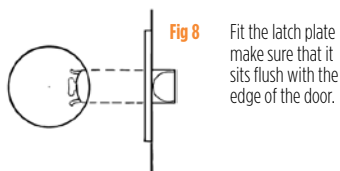
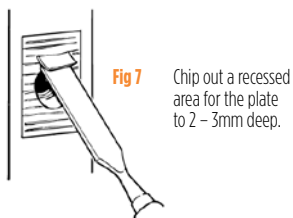
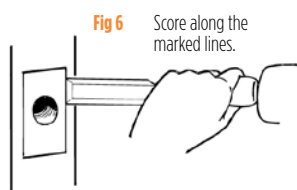
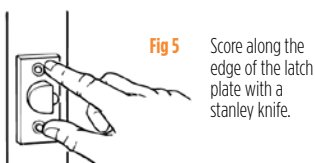
Fig 2 Drill with a hole saw from both sides of the door

Fig 3 Drill the hole for the latch in the edge of the door with a spade drill



Installing the latch plate

- The latch plate is the visible part of the latch bolt assembly and must be recessed or mortised into the edge of the door to allow the door to close securely. Insert the latch assembly into the latch hole and press it tight and square against the door (see Fig 4).
- Using a sharp Stanley Knife, trimmer or similar, carefully score the edge around the latch plate (see Fig 5). Once done, remove the latch assembly from the door.
- Taking a sharp chisel and mallet, lightly score the mark left by the preceding step, taking care not to cut too deeply (see Fig 6). Initially cut across the grain, then with the grain. The recess for the latch plate needs to be only as deep as the plate is thick – normally about 2 – 3mm.
- Remove the wood from the mortise by making a series of parallel cuts across its width, then turn the chisel over and carefully chip out the timber you have just cut (see Fig 7).
- Smooth the bottom of the recess you have made and trial fit the latch assembly. If the plate does not sit flush, cut a little deeper using the same procedure as outlined above. Once the latch plate sits flush with the edge of the door, this process is complete (see Fig 8). If you cut the recess a little deep, simply raise the plate using layers of thin cardboard fitted beneath the plate until it sits flush.



Installing latch and lockset

- Insert the latch assembly into the door and fasten the latch plate in its mortise with the screws supplied. Remember, you must drill pilot holes for the screws and do not over-tighten.
- Push the latch bolt flush to the latch plate with your thumb and insert the external half of the lockset, aligning the lockset with the holes in the latch assembly inside the door (see Fig 9). Once installed, remove your thumb from the latch bolt.
- Match up the interior half of the lockset, aligning the screw holes and fix with the screws supplied (see Fig 10).
- Test the operation of both internal and external door knobs, lock and latch function – all should work smoothly. If a problem arises, remove the interior knob assembly and check that the external knob is correctly aligned as it goes through the latch bolt assembly.

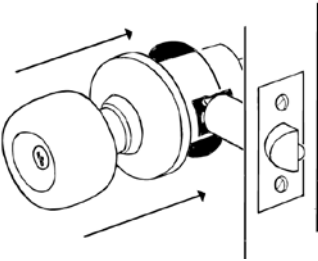


Fig 9 Fit the external half of the lockset, aligning with the holes in the latch assembly inside the door

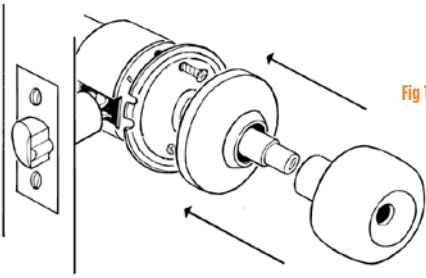


Fig 10 Match up the interior half of the lockset, aligning with the screw holes and fix with the screws supplied

Fig 11 Place the strike plate over the latch and mark the sides

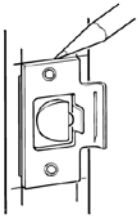


Fig 12 Extend the top and bottom lines to the side of the door

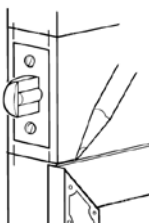
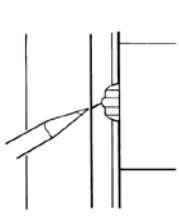


Fig 13 Mark centre of the latch bolt on door jamb



Installing the strike plate

- Correct installation of the strike plate allows the lockset to operate smoothly and the door to close correctly against its stops. Strike plate location is critical for the operation of locksets fitted with a deadlatch, a small spring loaded latch alongside the main latch. A deadlatch, when held by a correctly positioned strike plate, prevents the main latch from being forced from the outside.
- Temporarily centre the strike plate over the latch and mark the top and bottom of the plate on the door edge (see Fig 11). Extend these lines to the face of the door (see Fig 12).
- Remove the plate and close the door until the latch touches the door jamb. Mark the position of the centre of the latch bolt on the door jamb (see Fig 13). With the door in the same position, transfer the marks for the top and bottom of the strike plate onto the door jamb, using a square draw lines across the door jamb coinciding with these marks (see Fig 14 & 15).
- Locate the strike plate on the door jamb between the lines for top and bottom (see Fig 16). Once you're satisfied that the position is correct, score the outline of the strike plate onto the door jamb using a Stanley Knife, or similar sharp blade.
- Determine the centre of the latch bolt cavity and mark for drilling with a 22mm (7/8") or 25mm (1") spade bit, drilling just deep enough for the extended latch bolt (Fig 17).
- Now cut a mortise for the strike plate as you did for the latch plate, just deep enough for the plate to be recessed flush with the surface of the door jamb.
- Attach the strike plate with the supplied screws. Once again, you must remember to drill pilot holes and do not over tighten the screws.
- Close the door and ensure that both knobs and latch operate correctly.

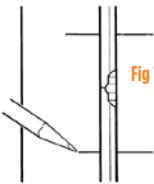


Fig 14 Transfer the markings across to the door jamb.

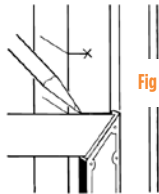


Fig 15 Transfer lines square to door jamb. Locate position of latch bolt.

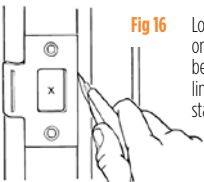


Fig 16 Locate strike plate on door jamb between these lines. Score with stanley knife.

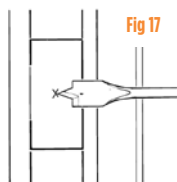


Fig 17 Centre of latch bolt – drill with a spade bit.

DIY Door Lockset installation made easy

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Installing a deadbolt

Deadbolts offer additional security for your external doors and are installed in almost the same manner as the locksets described above. To install a deadbolt, measure approximately 150mm (6") above the existing entry set to give the two locks optimal positioning.



Fig 18 A deadbolt lock.

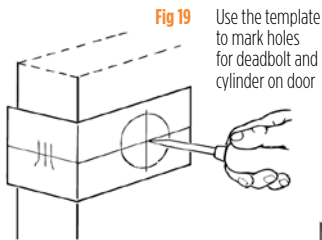


Fig 19 Use the template to mark holes for deadbolt and cylinder on door

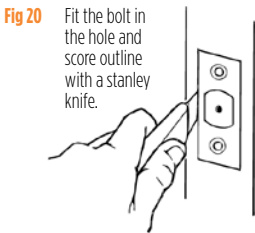


Fig 20 Fit the bolt in the hole and score outline with a stanley knife.

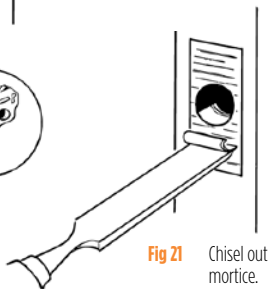


Fig 21 Chisel out mortice.

Fig 22 Mark and screw bolt plate to the door.

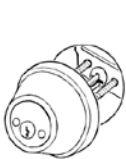
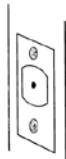


Fig 23 Fit the external and internal half.



Marking & drilling the holes

- Using the manufacturer's template, mark the holes for the deadbolt and cylinder on the door (see Fig 19).
- Using a suitably sized holesaw, drill the cylinder hole equally from both sides of the door to eliminate unwanted splintering around the hole.
- Following this, drill the bolt hole using a 23mm (7/8") spade bit, ensuring that the hole is drilled at 90° to the edge of the door.

Installing the bolt

- Fit the bolt assembly in the bolt hole, holding the bolt plate flush against the edge of the door and score the outline of the plate using a Stanley Knife or similar sharp implement (see Fig 20).
- Using a chisel, cut out a mortise for the plate, taking care to ensure that the plate finishes flush with the edge of the door (see Fig 21).
- Mark and drill pilot holes for the bolt assembly screws, fit the assembly and screw to the door (see Fig 22). Do not over tighten the screws.

Installing the lock cylinder

- Fit the external half of the lock cylinder to its hole, engaging with the bolt assembly as described above for the other locksets (see Fig 23).
- Fit the cylinder screws through the interior half of the cylinder and assemble the two halves (see Fig 23).
- Test the lock using the key and lever if one has been fitted.

Installing the strike plate

- Using the procedure described above for locksets, mark out the position of the strike plate on the door jamb (see Fig 24).
- If your lock is fitted with a door reinforcement plate, ensure that you follow the manufacturer's instructions when fitting the strike plate.
- Drill a hole for the bolt, fit the strike plate and test the action of the deadbolt with the door closed.

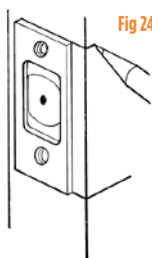
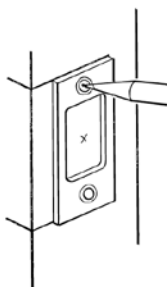


Fig 24

Mark out the position of the strike plate on door and transfer markings over to the door jamb.



Project Cost Estimator

Materials Description	Quantity	Cost
Lockset & Striker Plate		
Deadbolt (if required)		
Equipment		
Awl or similar		
Chisel		
Mallet		
Drill		
Square		
Stanley knife		
Screwdriver		
Hole Saw		
Spade Bit		
Pencil		
Tape Measure		
Total		

All the materials you need for this job are available at Colli, your DIY specialist.

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Note: Please ensure you comply with local council laws or regulations before undertaking any DIY project.

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