

KS150 Smart Deadbolt

Installation guide

For the KS150 smart deadbolt, all finishes. The KS150 is a deadbolt with no handle, running a tubular latch.



Illustration, not to scale

BEFORE ANYTHING ELSE

This guide carries a document number and revision in the top corner of every page. If the copy in your hand and the copy on keylessolutions.nz disagree, the website copy is the current one.

SAFETY

Fit the lock with the door OPEN and keep it open until the mechanical key and a test code have both been proven. Drilling and chiselling put fragments at eye height: wear eye protection. This product is not a substitute for a fire rated assembly where one is required.

ESCAPE ROUTES AND FIRE DOORS: CHECK BEFORE YOU FIT

On a means of escape, Building Code solution C/AS2 clause 3.15.2 requires the door to be openable from the inside WITHOUT a key or other security device. Read that literally: the mechanical key override does NOT satisfy it, because using it means using a key. Do not treat the key as the compliant escape method. What complies is the fitted doorset as a whole, and that is for the designer or the building consent authority to confirm, not for us and not for you on site. On a fire rated doorset, hardware is not generically approved in New Zealand: it must be approved on that maker's doorset. Escape route, fire door, commercial or multi unit: stop and confirm before you cut. Altering a means of escape can require consent.

WHAT THIS LOCK IS

The KS150 opens by the TTLock app, a PIN code on the keypad, an RFID card, and a mechanical key. It has no fingerprint reader. Remote features need the Wi-Fi gateway, sold separately, and nothing in this installation requires one.

USB EMERGENCY POWER

This model carries a USB emergency power port. If the cells are completely flat, a phone power bank on that port gives the lock just enough power to be opened with your code or key. The port does not open the lock by itself, and it does not charge the batteries: replace them.

TUBULAR, NOT MORTICE

The KS150 uses a TUBULAR latch, not a mortice case. Earlier printed guides gave mortice instructions for this lock. If you are working from an older copy, stop and use this one.

ADJUSTABLE BACKSET

The backset is adjustable on the latch itself. Set it to 60 or 70 mm to match the door before the latch goes in.

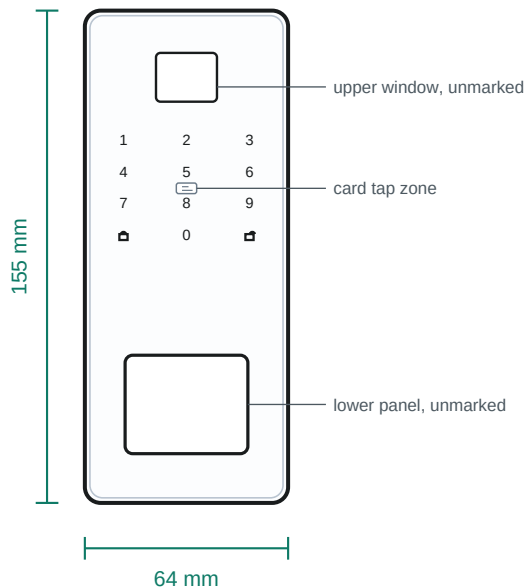
WARRANTY · PENDING KEYLESS

The warranty term and its conditions for this model are being confirmed with Keyless Solutions and will be printed here. Do not quote a term to a customer from an older document.

STUCK

Call 09 238 2377, or 027 8 ACCESS. Have the model, the backset and the door type ready and we will work it out with you.

1 · The product and the numbers



Exterior unit, front elevation. The published envelope:

- Panel: 155 mm high x 64 mm wide (manufacturer drawing).
- Panel depth: 30 mm.
- Backsets: 60 to 70 mm adjustable. Check the box label before drilling anything.
- Batteries: 4 x AA, fitted in the interior unit.
- Weather rating IP56.
- Bluetooth 4.0 or above.
- Material: Zinc alloy.
- Finishes: Black and Brushed Nickel. Fitting is identical across finishes.

Tools

- Drill with bits to suit your door
- Sharp chisel and mallet (timber doors)
- Phillips screwdriver, tape measure, pencil
- Masking tape to hold the paper template

WHAT IS IN THE BOX · PENDING KEYLESS

The full parts list for this model, with screw lengths, spindle length and the door thickness range the supplied fixings cover, is being confirmed with Keyless Solutions. Until it is printed here, check the packing list in the box before you start, and never begin a job without the fixing kit in front of you.

DOOR THICKNESS AND SPINDLE · PENDING KEYLESS

The door thickness range and the supplied spindle length for this model are being confirmed. If the door is unusually thick or thin, check before ordering rather than on site.

THE TWO UNMARKED PANELS · PENDING KEYLESS

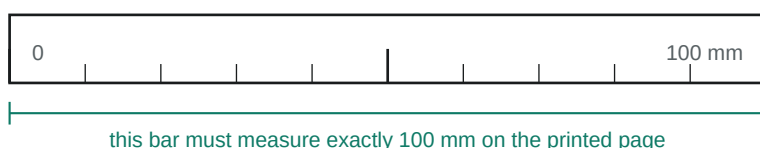
This model carries a small square window above the keypad and a larger panel below it. Neither is marked on the product and neither function is confirmed, so this guide does not name them. The card tap zone is the card symbol between the 5 and the 8. Do not drill through either panel.

2 · The paper template, and proving your printer

READ THIS BEFORE YOU DRILL ANYTHING

The published envelope tells you whether the lock fits the door. It does not tell you where to drill. The card downloadable from keylessolutions.nz POSITIONS the lock and does not carry hole centres. Only the card packed in your box marks holes, cut for your exact backset. If the box card is missing or unreadable, call 09 238 2377 before you drill. Never transfer hole positions from another installation or from an older guide.

If you print a replacement template from the website, printers silently shrink pages unless told not to, and a template printed at “fit to page” puts every hole in the wrong place. Prove the scale before you mark the door.



- Print at 100% scale. In the print dialog this is the option that does NOT say fit, shrink, or scale to paper.
- Lay a ruler or tape along the printed bar above. It must read exactly 100 mm. This bar proves THIS page printed at full size. Check a replacement template the same way, against its own printed check bar.
- If it does not, do not use the print. Fix the print scale and print it again.
- Read the backset off the box label. That is the distance from the door edge to the centre of the spindle. Measure it in from the door edge and pencil a line down the door face.
- Sit the teal dashed centreline on that pencil line, at the height you want the lock and square to the door edge, then tape the sheet flat and mark around the outline with a sharp pencil. The lock is symmetrical across its width, so its centreline is the spindle line. Mark the inside face from the second outline, not by folding the sheet round the edge: the two outlines are not a door thickness apart.

THE BACKSET IS SET BY YOU, ON THE LATCH

The backset is the distance from the door edge to the centre of the bolt. On this model it is NOT an ordered size. The latch adjusts between 60 mm and 70 mm and you set it on site to suit the door. Decide which the door needs and set the latch BEFORE you mark anything, because that one choice moves every hole by up to 10 mm.

3 · Fitting, in order

- 1 Set the backset on the latch**

The tubular latch adjusts between 60 mm and 70 mm. Set it to match the door before it goes in. This is a tubular latch, not a mortice case: it drops into the edge bore and is held by the faceplate.
- 2 Mark the door from the template**

Set the latch backset first, then measure that same distance in from the door edge and pencil a line down the door FACE. Sit the template's teal centreline on that pencil line at the height you want the deadbolt, tape the sheet FLAT on the face, and mark around the outline. Do not fold or wrap the sheet round the door edge: the backset sets how far in the lock sits, not the edge. Mark the inside face from the second outline, which is a different size on this model. The downloadable card does NOT carry hole centres: drill only from the card packed in the box. If it is missing, call 09 238 2377 before you drill.
- 3 Drill the crossbore and edge bore**

Drill the crossbore from both faces so the exit does not break out, then drill the edge bore square to the door edge so it meets the crossbore cleanly.
- 4 Fit the latch and the strike**

Seat the latch in the edge bore with the bolt retracted and screw the faceplate flush to the door edge. Fit the strike to the jamb so the bolt throws fully without forcing.
- 5 Run the cable**

Pass the connecting cable from the exterior unit through the crossbore, above the latch, so it is not pinched by the bolt.
- 6 Hang the exterior unit**

Seat the exterior unit on the door with the tailpiece engaging the latch. It must sit flat against the door face.
- 7 Fit the mounting plate and interior unit**

Screw the mounting plate to the door, connect the cable to the interior unit, then seat the interior unit on the plate. Check the thumbturn rotates freely before the final screws.
- 8 Batteries and first test**

Fit the batteries in the interior compartment. With the door still OPEN, test the mechanical key, then the factory code printed on the label in the box, then throw and retract the bolt from both sides. Only close the door once all three work.

3 · Fitting, in order (continued)

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Pair with the TTLock app

The lock pairs with the TTLock app, made by Hangzhou Sciener and free on the App Store and Google Play. Have the OWNER create their own account and add the lock while standing beside it, so the owner holds the administrator account rather than the installer. Set the owner's admin code and delete the factory code before you leave. On a rental or a sale it is that account, not the keys, that hands the lock over.

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Enrol the cards and fobs

Add each RFID card or fob through the app while beside the lock, and label them as you go. Cards handed over without being enrolled will not open the door.

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Hand over

Leave this guide, the keys, the cards and the box label with the owner. The box label carries the backset, which is the first thing anyone will ask for in five years. Complete the handover record in section 5.

4 · AFTER FITTING

The three questions every owner asks in the first month:

- Flat batteries: the lock warns early in the app and at the keypad, and the mechanical key always works. Change all cells at once, with the door open.
- No internet: codes, cards and keys never depend on the internet. Only remote features do, and those need the separate Wi-Fi gateway.
- Selling or re-letting: transfer or reset the lock in the TTLock app BEFORE handover, or the old administrator keeps working access.

INSTALLERS: RELEASE THE LOCK BEFORE YOU LEAVE

If you added this lock to YOUR OWN TTLock account, you must delete it in the app while standing beside the lock, in Bluetooth range, before you leave site. Uninstalling the app does not release it. Deleting your account does not release it. If you skip this the owner cannot add the lock at all, and the only way out is a factory reset that wipes every code and every card.

WARRANTY CONDITION, READ THIS

Keyless Solutions publish this as a condition of warranty on the deadbolt: the deadbolt must be used together with a latch roller ball or a concealed magnet, to keep the door consistently closed against the bolt. Fitting it without one can void the warranty. If the door has neither, fit one before you hand over.

4 · After fitting (continued)

HANDOVER RECORD

Leave this with the owner. Test with the door OPEN and tick: mechanical key ☐ admin code ☐ card or fob ☐ app unlock ☐

Model and finish

Backset fitted

Date fitted

Fitted by

Admin account holder

Owner's TTLock account email

Lock name in the app

Gateway serial, if fitted

Factory code deleted (Y/N)

Cards or fobs enrolled

Keys handed over

Installer released lock (Y/N)