The real answer to security—
INGERSOLL LOCKS

SC 74, SC 75 and SC 76 10-Lever Mortise Deadlocks

A top security mortise lock.
Model SC 74 provides key operation on both sides of the door.
Model SC 75 provides turnknob operation on inside of the door.
Model SC 76 provides key operation on outside of door only.

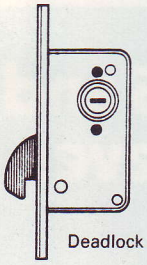
Suitable for plain edge timber doors of either hand opening in or out with a minimum stile of 64mm (2½") wide by between 48mm (1⅞") to 57mm (2¼") thick. Spacers are available for thinner doors. Refer to back page for details of special staples for rebated doors.

Models SC 74 and SC 76 are approved to British Standard 3621 for thief resistant locks.

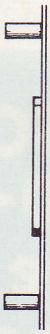
IMPORTANT

Ensure you complete and send the Key Registration Card to Ingersoll Locks Limited and retain the guarantee/reference slip with your personal or house papers.

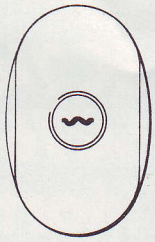
Contents of Box



Deadlock

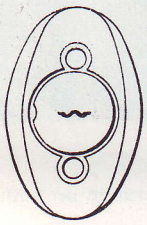


Locking Plate

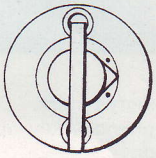


Outside cylinder with connecting bar

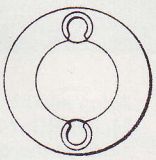
Or in place of inside cylinder



Inside cylinder with connecting bar



Turnknob (Model SC 75)

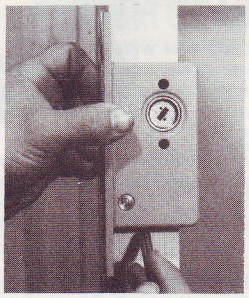


Fixing Unit (Model SC 76)

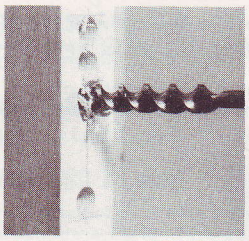
Three exclusive Ingersoll keys — two plated cylinder connecting screws — assorted woodscrews — fixing instructions — two cylinder and one locking plate templates — key registration card — guarantee/reference slip.

FIXING INSTRUCTIONS

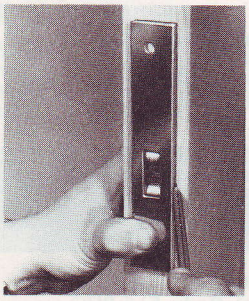
Read through these instructions carefully before you commence fitting the lock. In the interests of greater security several features are different to regular lock practice. These instructions explain the correct sequence, making the work as easy as possible for you and ensuring correct operation of the deadlock when fitted. Unless otherwise stated, the instructions relate to all models, (SC 74/75/76).
If you are inexperienced in this type of work we suggest that the lock be professionally fitted.



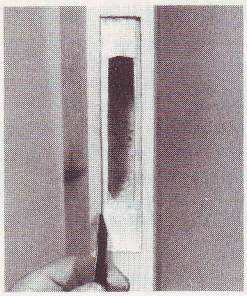
PICTURE 1
Hold deadlock against door edge in required position and mark top and bottom of case.



PICTURE 2
Between these two lines mark a central vertical line. Bore out the mortise to a depth of 64mm (2½") using a 17mm (11/16") twist bit. Holes should be bored close together and a thin elastic band can be used on the bit to indicate the required depth. Chisel remaining wood away to produce a clean and squared-up mortise hole, 103mm (4 1/16") × 17mm (11/16") × 64mm (2½") deep.

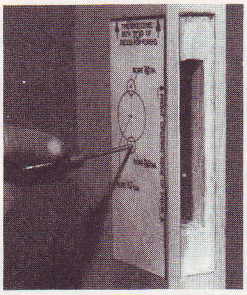


PICTURE 3
Place lock in mortise and mark round forend.



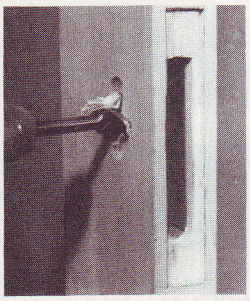
PICTURE 4

Remove the lock and cut the area marked to a depth of 6mm (¼"). Check that the deadlock fits snugly without binding in the mortise and with the forend flush with the edge of the door. Remove deadlock.



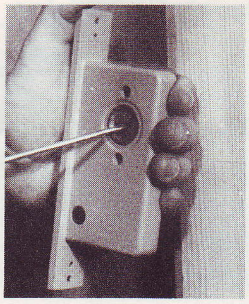
PICTURE 5

Extend lines from the top and bottom of the forend recess on the inner and outer faces of the door, then use the cylinder template between these lines to mark the outside of the door.

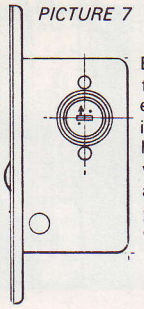


PICTURE 6

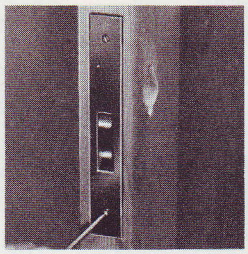
1. First bore the two 11mm (7/16") holes through to the mortise then bore the centre 32mm (1¼") hole.
2. Repeat from other side of door, using the appropriate reverse template.



PICTURE 7



Ensure the slot in each cam in lock is horizontal, with the arrow pointing upwards.

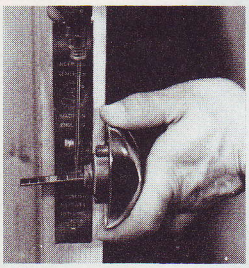


PICTURE 8

Place deadlock in position in door with upper forend in place and secure with wood screws. Reduce length of both plated cylinder connecting screws to suit door thickness as shown in diagram on last page.

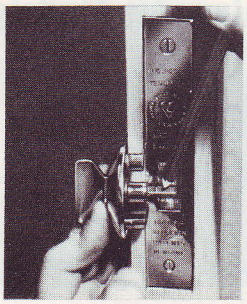
Now proceed as appropriate for whichever model you are fitting.

Models SC 74/75



PICTURE 9

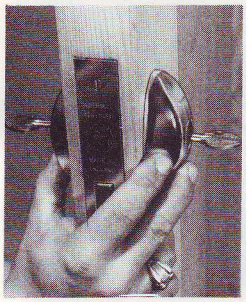
Place outside cylinder so that the cover is flush against the surface of the outside of the door and the connecting bar extends across the deadlock and edge of the door as illustrated. Cut bar at point where it is 1.5mm (1/16") short of the centre of the deadlock bolt (ignore any existing notches on the connecting bar).



PICTURE 10

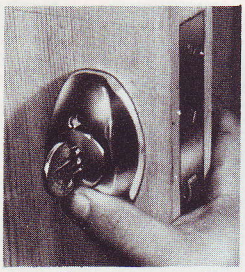
Repeat with the other cylinder (or turnknob for model SC 75 as illustrated) from the inside of the door so that when the bar is cut there is a maximum gap of 3mm (⅛") in the middle of the door between the ends of the outside and inside connecting bars.

Model SC 74 only



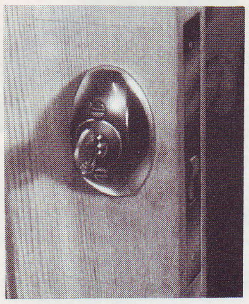
PICTURE 11

Partly insert key in outside cylinder, with hole in key bow away from edge of door, and place the cylinder in the outside of the door. **Ensure that connecting bar engages in cam of deadlock.** Repeat with inside cylinder.



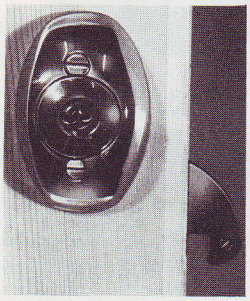
PICTURE 12

Press key fully into the inside cylinder and turn until the cutaway radius in plug head is aligned to hole in the cylinder body. Insert cylinder connecting screw through the inside cylinder into the outside cylinder and screw in until almost tight. The cut-away radius in the screwhead must be positioned to permit the plug to turn freely with a correct key.



PICTURE 13

Turn key to align cut-away radius in the plughead to the other hole in the cylinder body and screw in second connecting screw until it is tight, but allows plug to rotate. Tighten first screw similarly and remove key.



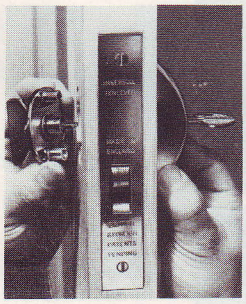
PICTURE 14

The cylinder connecting screws cannot now be removed without a correct key to line up the plug.

Model SC 75 only

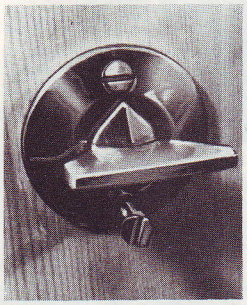
PICTURE 15

Partly insert key in outside cylinder with hole in key bow away from door edge. **Ensure that connecting bar engages in cam of deadlock.**



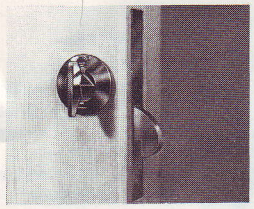
PICTURE 16

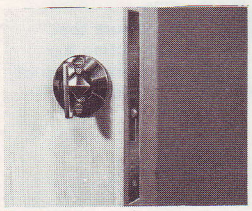
1. Insert turnknob assembly from inside of door with turnknob in vertical position and elongated portion towards bottom so that pointer is between dots.
2. **Ensure that connecting bar engages in cam of deadlock.**



PICTURE 17

1. Rotate turnknob to the horizontal position and the cut-away radii behind the rose will be aligned with the holes in the rose.
2. Insert cylinder connecting screws through the rose and into the outside cylinder. Screw until they are tight but still allow the turnknob to rotate freely. The slots in the screwheads must be in a horizontal position as shown so that the radii in them are correctly positioned to allow the turnknob to rotate.
3. Remove key from outside cylinder.



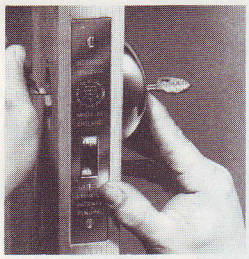


PICTURES 18 and 19

Check turnknob operation.

1. Rotate knob a complete turn, **ensuring that the turn finishes when the pointer on the knob is opposite the two indicating marks on the rose.**
2. Withdraw bolt by rotating the turnknob a complete turn back **until the pointer is again between the two indicating marks on the rose.**

Model SC 76 only



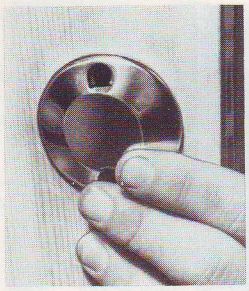
PICTURE 20

1. Insert key cylinder into outside of door. Mark the connecting bar at the point where it protrudes 5mm ($\frac{3}{16}$") beyond the inside face of the door.
2. Remove cylinder and saw or file through the bar at this position. Ignore any existing notches in the connecting bar.

NOTE— For doors over 52mm ($2\frac{1}{16}$") it is not necessary to cut the bar.

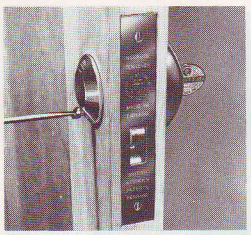
For doors over 57mm ($2\frac{1}{4}$") an extra long connecting bar is required.

3. Partly insert key in cylinder, with hole in key bow away from edge of door, (see also Picture 15) and place the cylinder in the outside of the door.



PICTURE 21

The connecting bar passes through the cam in the deadlock and engages in the slot in the centre disc of the fixing unit. Ensure that the unit fits flush on the inside of the door.



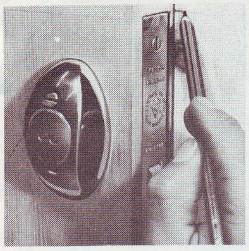
PICTURE 22

1. Press key fully into the cylinder and turn it to the vertical position and the cut-away radii in disc behind the fixing unit rose are aligned with the holes in rose.
2. Insert cylinder connecting screws through the fixing unit and into the outside cylinder. Screw until they are tight but still allow the key to turn freely.

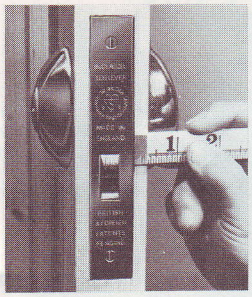
PICTURE 23

1. The slots in the screwheads must be in a horizontal position as shown so that the radii in them are correctly positioned to allow the key to turn freely.
2. Remove key from outside cylinder.

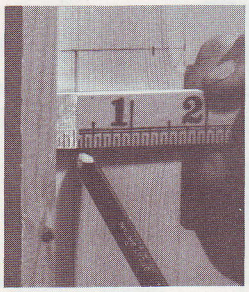
Locking Plate—All Models



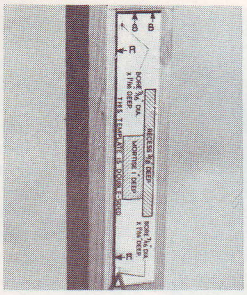
PICTURE 24
Partially close door and mark door frame to coincide with top and bottom of forend. Extend these lines towards the rebate stop of the door frame.



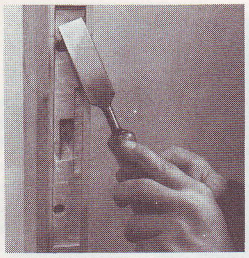
PICTURE 25
Measure distance from outside of door to edge of forend.



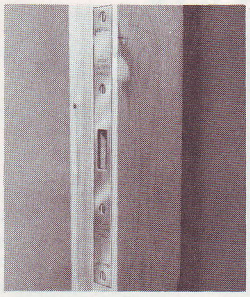
PICTURE 26
Transfer this measurement to inside of door frame (measuring from rebate stop).



PICTURE 27
1. Place locking plate template in position with long edge A-A on line drawn in Picture 26 and short edge B-B on line drawn in Picture 24.



PICTURE 28
1. Bore two 11mm ($\frac{7}{16}$") holes 27mm ($1\frac{1}{16}$") deep.
2. Mortise shaded areas to a depth of 10mm ($\frac{3}{8}$") and 25mm (1") deep as shown on template.
3. Recess frame to house locking plate and provide 3mm ($\frac{1}{8}$") clearance between it and the lock forend when door is closed.



PICTURE 29
Secure locking plate with four 32mm ($1\frac{1}{4}$") plated screws.

Test Lock Operation

ALL MODELS:

With door open:

A.
Hold the key horizontal, with the hole in the key bow away from opening edge of door. Insert key into the outside keyhole and rotate a complete turn.
Withdraw the key in the horizontal position.
The hookbolt should now be deadlocked in the fully thrown position.

B.
Retract bolt by inserting key and giving a complete turn in the opposite direction.

C.
Close door and operate lock to check that bolt engages fully and easily in the locking plate.

Model SC 74 only

Repeat A and B above with inside key cylinder.

Model SC 75 only

From inside of door rotate knob a complete turn, ensuring that the turn finishes when the pointer on the knob is opposite the two indicating marks on the rose.

Withdraw bolt by rotating the turnknob a complete turn back until the pointer is again between the two indicating marks on the rose.

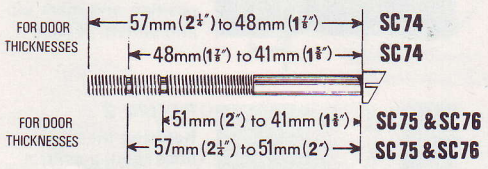
REBATED DOORS

Special forend (Part MD 75/30) and locking plates (Part MD 75/31) are required for rebated doors.
These parts may be ordered, quoting depth of rebate, from your stockist.

NOTICE TO TRADE FITTERS

Please pass this leaflet together with the key registration card and guarantee/reference slip to the owner of the lock when you have completed fitting. Locksmiths are recommended to insert their name and address in the space provided under "Servicing" on the reference slip.

BE SURE TO POST YOUR KEY REGISTRATION CARD TODAY



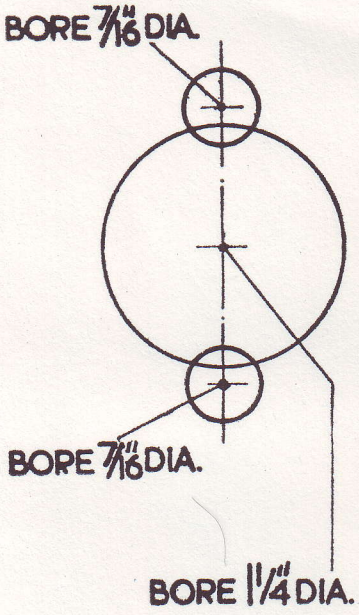
Both plated cylinder connecting screws should be cut as shown here according to model and door thickness.

In the interests of top security and product improvement Ingersoll Locks Limited reserve the right to modify specifications and prices as may be necessary without incurring any obligation.

The real answer to security—
INGERSOLL LOCKS
(A Member of The Gold Fields Group)

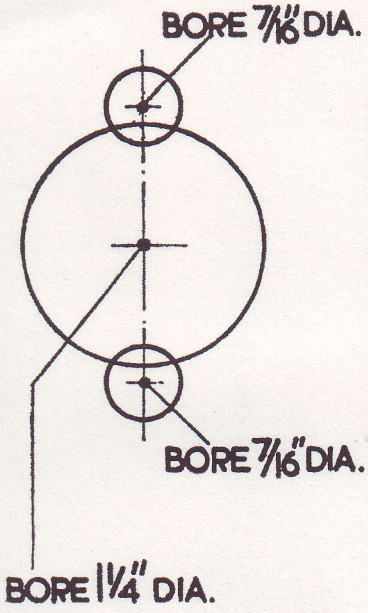
Ingersoll Locks Limited
Fernbank Road, Ascot, Berks SL5 8HG
Telephone: Winkfield Row (034 47) 4141

THIS EDGE LEVEL WITH TOP OF RECESS FOR FOREND.

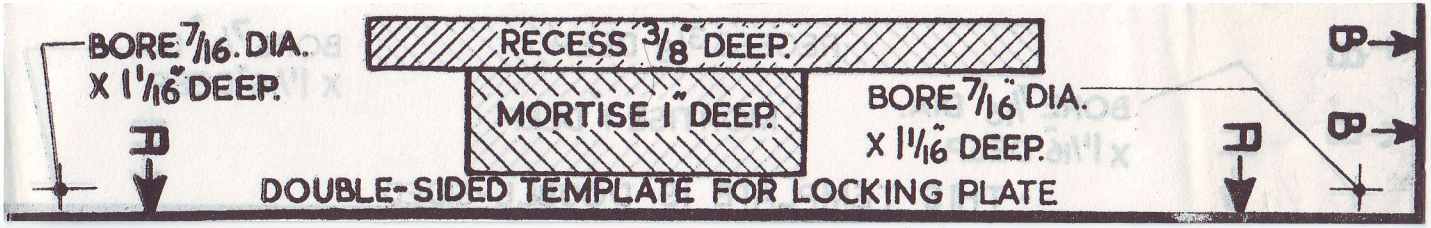


FRONT OPENING EDGE OF DOOR.

THIS EDGE LEVEL WITH TOP OF RECESS FOREND.



FRONT OPENING EDGE OF DOOR.



DOUBLE-SIDED TEMPLATE FOR LOCKING PLATE

B
B
A
BORE 7/16" DIA.
X 1 1/16" DEEP.
RECESS 3/8" DEEP
MORTISE 1" DEEP
BORE 7/16" DIA.
X 1 1/16" DEEP.
A
• THIS TEMPLATE IS DOUBLE-SIDED