



RIVERS LOCKING SYSTEMS (AUSTRALIA) PTY LTD

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RIVERS 410/420 FOUR POINT LOCK - OPEN OUT DOOR

1. **Check contents of box against packing list to ensure all components have been supplied.**
2. **Mark centreline of Lock across inside of door at desired height (nominally 1100mm from floor to centreline of Handle). (Fig. 1)**
3. **Remove cover from Lock Body.**
4. **Position Lock onto door at pre-determined height & such that the clearance between Lock Body & door jamb is equal on both sides. (Fig. 1) Fix Lock to door using only three self-tapping screws or for Model 410 Locks (no Lock Cylinder required) use all self-tapping screws to fix Lock to door.**
5. **This step only applies to Model 420 Locks. Mark four Cylinder Shield holes & Cylinder centre using the Lock Backing Plate as a template. (Fig. 3)**
6. **This step only applies to Model 420 Locks. Remove Lock Body from door & drill four 10mm dia. holes through door, then counter bore each 15mm dia. x 25mm deep from the outside. Drill Lock Cylinder hole 32mm dia. (Fig. 4 & 5)**
7. **Mount Lock Body to door using self-tapping screws provided. Note: Model 410 Locks (no Lock Cylinder required) are already fully mounted with all self-tapping screws at this point (refer to step 4).**
8. **This step only applies to Model 420 Locks. Fit Cylinder Shield Assembly to door using screws provided. Fix through lock body. (Fig. 7)**
9. **This step only applies to Model 420 Locks. With the Locking Bars extended (i.e. locked position) & the key removed from the Cylinder, ensure that the Cam (that accepts the Cylinder Tail) is oriented such that the Cam Lobe points away from the back of the Cam Locking Bar. (Fig. 6 & 7). The door will need to be in the open position to do this. This step is critical for the Lock to function as intended.**
10. **With door closed, activate the Locking Bars so that they are touching on the doorframe. Mark position of locking bars on frame. (Fig. 8)**
11. **Drill a 12mm dia. hole in frame at top & bottom of each Locking Bar position. (Fig 9) Use a small cutting wheel to splice between top & bottom holes, either side. (Fig 10) This will create a slot in the frame to accept Locking Bars. If frame is concrete filled, drill out masonry to a depth so that Locking Bars will not 'bottom out' when fully extended.**
12. **Clean edges of slots & ensure smooth action of Lock when locking/unlocking.**
13. **This step only applies to Model 420 Locks. Fit outside Handle & Spindle to door using screws provided.**
14. **At this point check the operation of the Cam Locking Bar. Ensure when the outside Lever Handle is moved upwards to the horizontal position, the Cam Locking Bar falls freely into the cut out in the Inner Cam Plate. (Fig. 6) If this does not happen try adding a small washer under the Cam Plate. (Fig. 7)**
15. **Ensure correct Lock operation. Inside Handle must disengage Locking Bars at all times (for escape), while the outside Handle should not operate unless the Cylinder has been unlocked with the key.**
16. **Replace Lock Body Cover.**
17. **Ensure Lock operates smoothly & without resistance. Excessive force should not be required to activate lock. Inside Lever Handle must operate in a downward motion & allow escape at all times.**
18. **Apply Rivers self-adhesive label to lock body.**

**PLEASE NOTE: RIVERS RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE
RIVERS LOCKS SHOULD ONLY BE MOUNTED ONTO SOLID CORE DOORS**

410/420 FOUR POINT LOCK-OPEN OUT DOOR

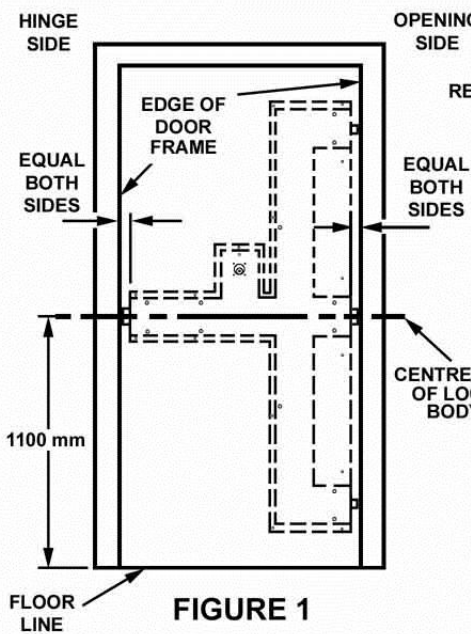


FIGURE 1

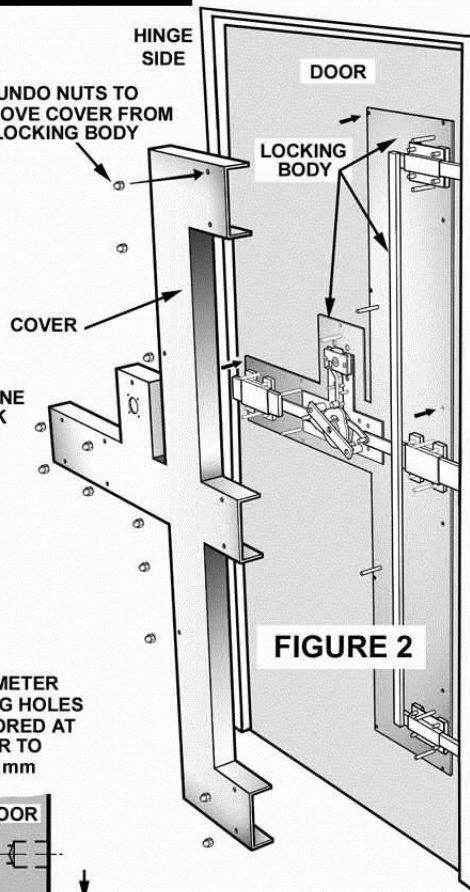


FIGURE 2

LOCKING BODY MOUNTS TO DOOR USING SELF-TAPPING SCREWS

WHEN CYLINDER MOUNTING HOLES ARE TO BE MARKED ONTO DOOR, USE ONLY 3 SELF-TAPPING SCREWS, TEMPORARILY, TO MOUNT LOCK TO DOOR OR, FOR LOCKS WITHOUT CYLINDERS, USE ALL SELF TAPPING SCREWS TO PERMANENTLY MOUNT LOCK TO DOOR

USING BACKING PLATE AS A TEMPLATE, MARK FOUR CYLINDER MOUNTING HOLES & CYLINDER CENTRE ON DOOR

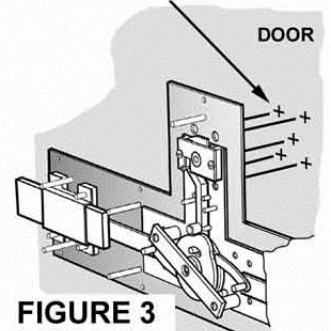


FIGURE 3

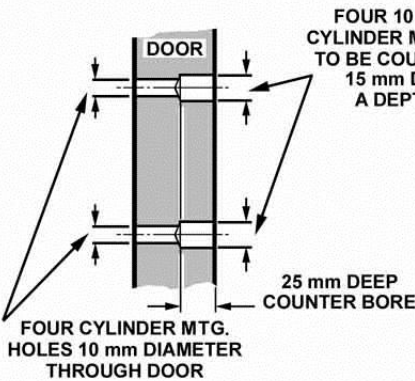


FIGURE 4
TYPICAL SECTION
FOUR CYLINDER
MOUNTING HOLES

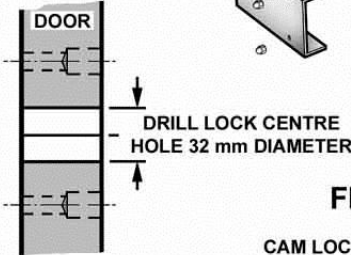


FIGURE 5

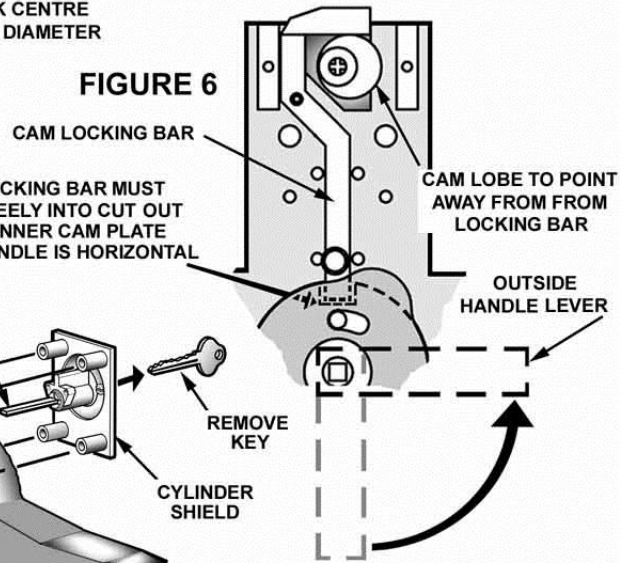


FIGURE 6

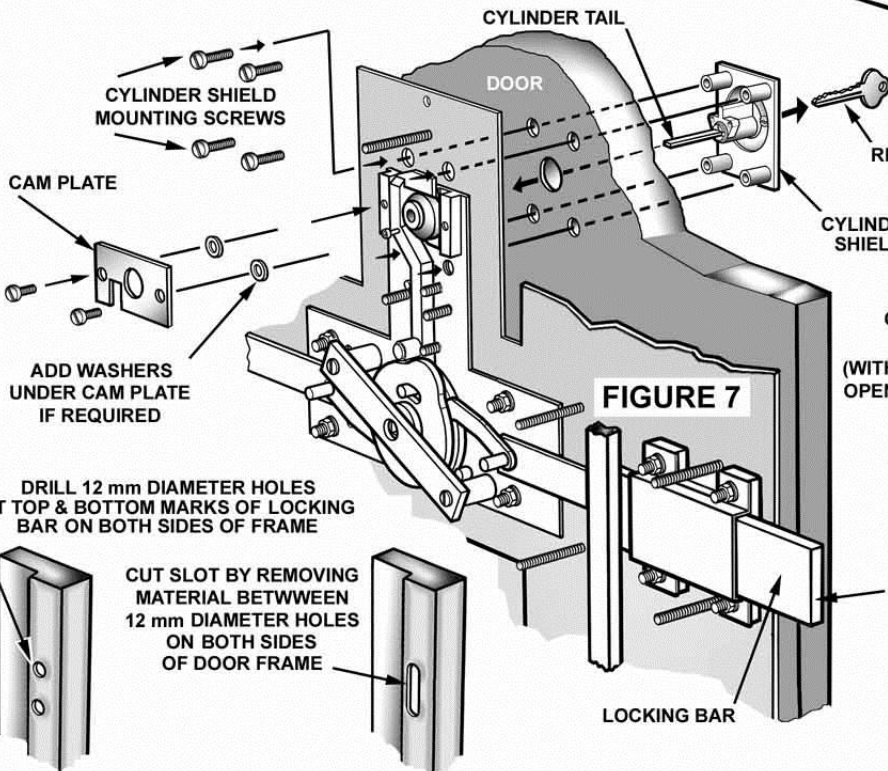


FIGURE 7

MARK CENTRE POINTS AT TOP & BOTTOM OF LOCKING BARS ON BOTH SIDES OF DOOR FRAME

DRILL 12 mm DIAMETER HOLES AT TOP & BOTTOM MARKS OF LOCKING BAR ON BOTH SIDES OF FRAME

CUT SLOT BY REMOVING MATERIAL BETWEEN 12 mm DIAMETER HOLES ON BOTH SIDES OF DOOR FRAME

FIGURE 9

FIGURE 10

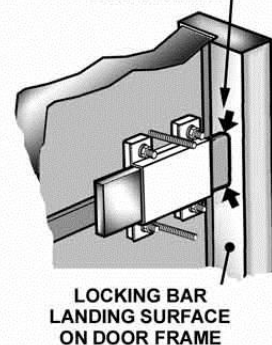


FIGURE 8