

MAINTENANCE

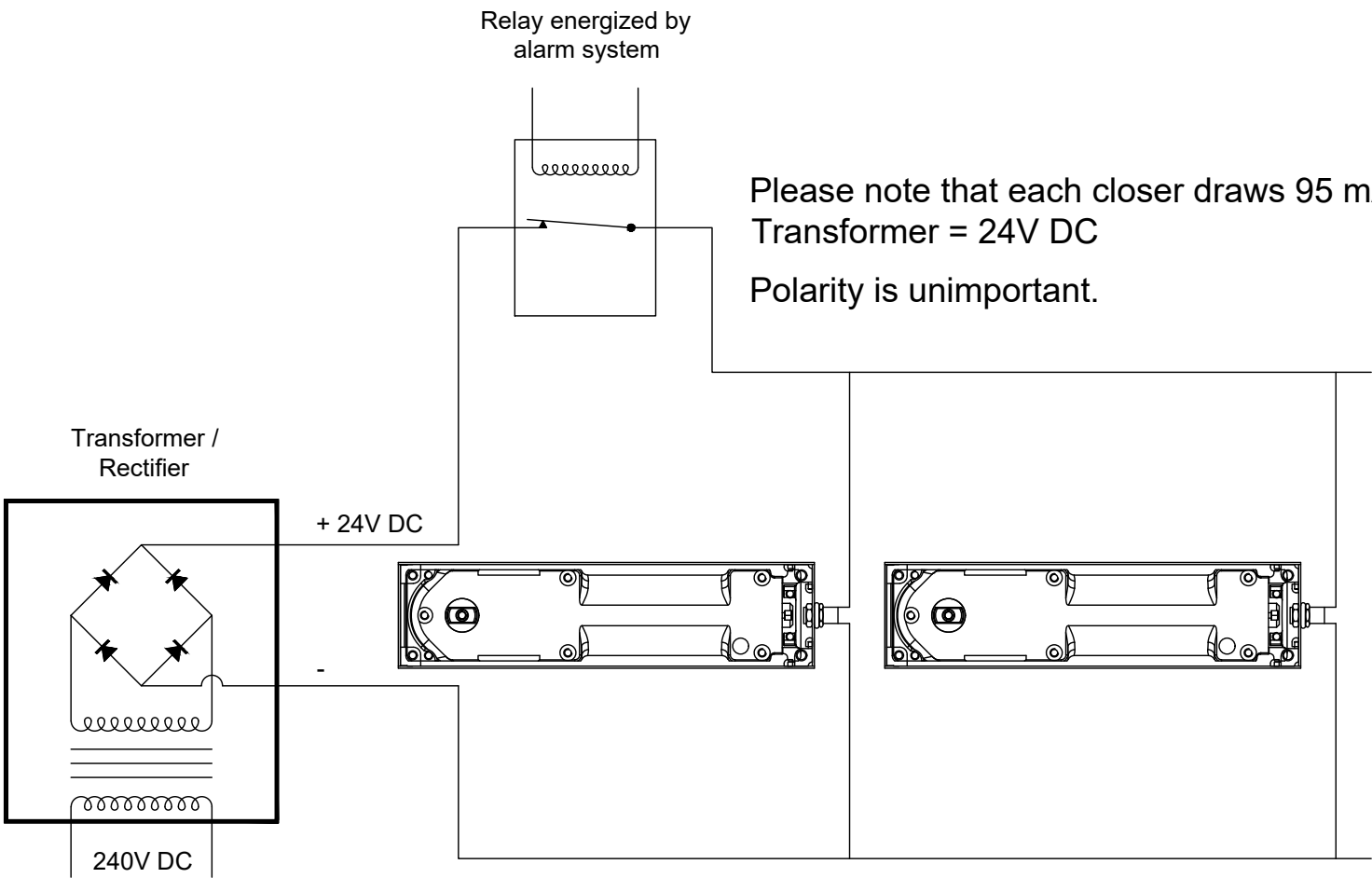
The internal mechanism of the floor closer is immersed in oil and has been designed so that it requires no maintenance. It is protected from misuse by an overload safety feature.

ON NO ACCOUNT SHOULD ANY ATTEMPT BE MADE TO DISMANTLE A FLOOR CLOSER SINCE IT CONTAINS A PRE-STRESSED SPRING.

Once the floor closer has bee installed and adjusted to suit local conditions no further maintenance should be necessary. However, an annual check must ensure that:

- the door closes freely and positively into its frame from any angle without slamming.
- all fixing screws to the unit and accessories are tight.

Any failure to close the door should be investigated. It may indicate that the power of the floor closer requires adjustment or that excessive force is required to close the door due to distortion or mis-alignment.



	ASSA ABLOY LTD SCHOOL STREET, WILLENHALL, WV13 3PW							
2017		CF155						2023
2812-CPR-AE0004	EN 1155: 1997 + A1:2002	3	8	4	1	1	3	1121-CPR-XXXXXX

EXIDOR

INSTALLATION INSTRUCTIONS. FLOOR SPRING SERIES 3000.

INTRODUCTION

Floor springs are sold in four separate packs comprising units, top straps, bottom straps, and covers. All four are required but they will vary according to whether the door is double swing or single swing and the amount of offset.

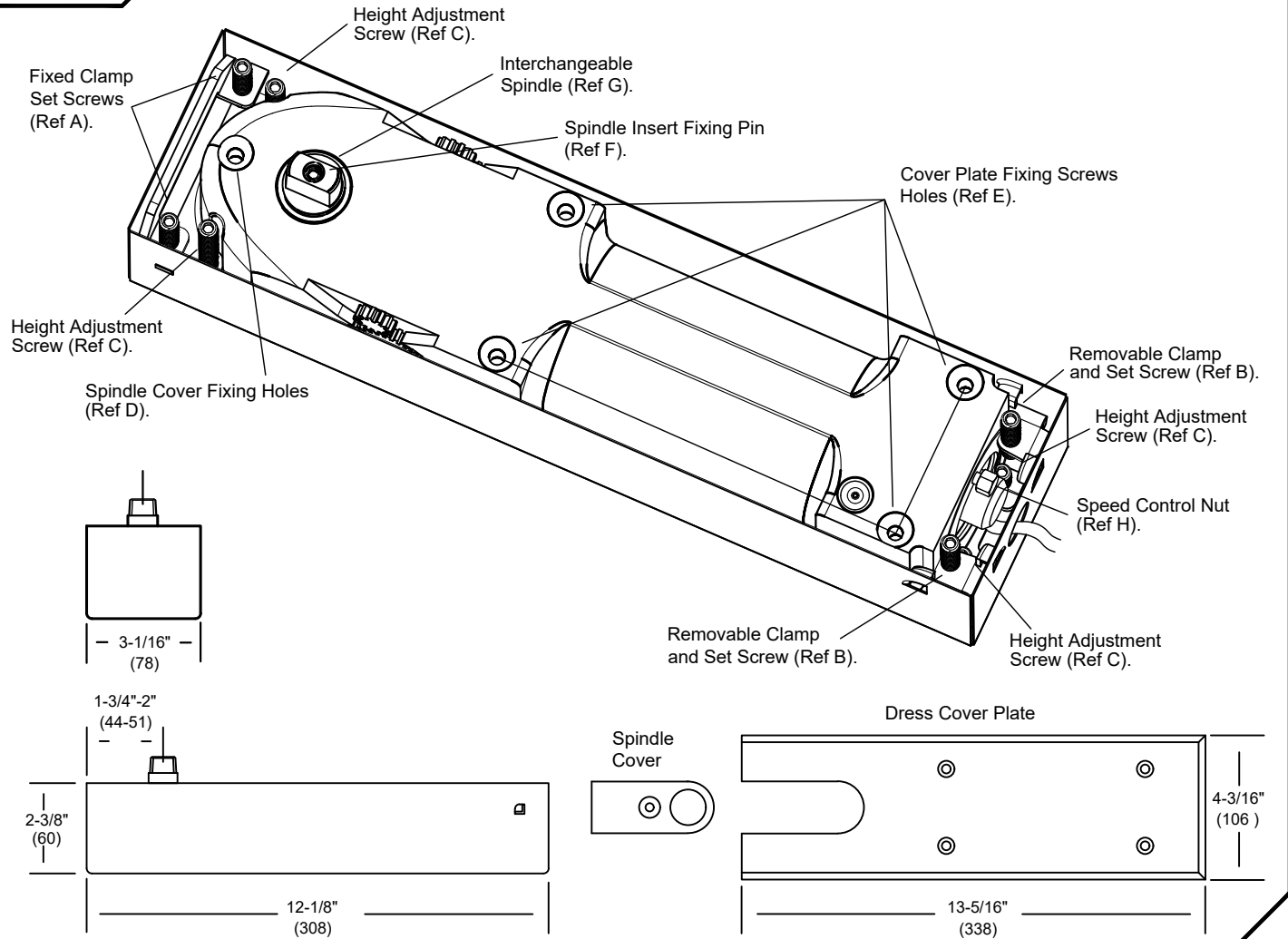
All floor spring units suit double swing or single swing doors of both hands allow for openings up to 180°, with a controlled closing from 105°. Suitable for doors from 500mm wide and up to but not exceeding 1400mm.

For door masses of 600 kg maximum (double swing) and 400 kg maximum (single swing).

FLOOR SPRING PACKAGES

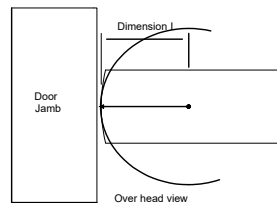
DOUBLE SWING	SINGLE SWING 25mm OFFSET
FLOOR SPRING, CEMENT BOX AND SPINDLE.	FLOOR SPRING, CEMENT BOX AND SPINDLE.
BOTTOM STRAP.	25mm OFFSET BOTTOM STRAP (STATE FINISH).
TOP CENTRE.	25mm OFFSET TOP CENTRE (STATE FINISH).
COVER PLATE AND TOP CENTRE COVERS (STATE FINISH).	COVER PLATE (STATE FINISH).

DIMENSIONS

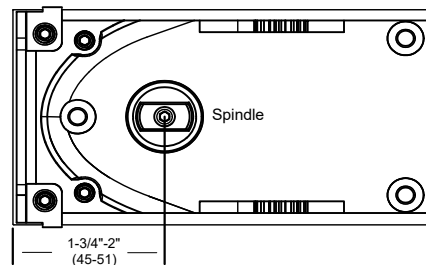


FOR DOUBLE SWING DOORS

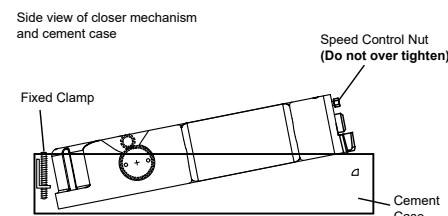
1. Determine the heel radius of the door (Dimension I).



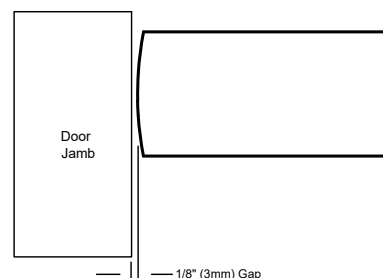
2. Note the minimum to maximum spindle position of the mechanism.



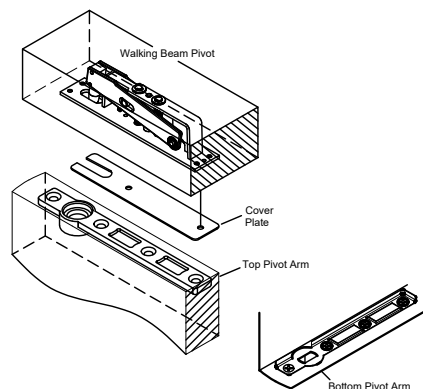
3. Remove the mechanism from the cement box. The screws for the removable clamps (b) should be unscrewed 10 turns each. Tap the clamps down to remove them from the sockets in the cement box. Lift the front of the unit using the adjustment spanner.



4. Set the cement box in the floor with the fixed clamps (a) nearest to the frame, taking care to align the spindle position with the centre of the heel radius of the door. Allow a 3mm gap behind the door.



5. Mortice into the door on the pivot centreline, the bottom strap and the bearing half of the the top centre. Mortice into the transom, the pivot half of the top centre.

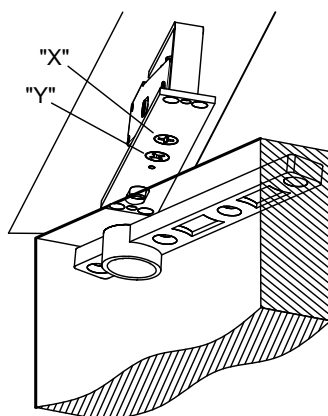


6. Replace the mechanism in the cement box. Ensure the removable clamps are engaged in their sockets and tighten the clamp screws. Screw on the spindle cover.

7. Position the door over the floor spring and locate the strap over the spindle.

8. Carefully open the door and adjust down the top centre pivot to engage in the bearing in the door.

9. Adjust the vertical gaps to 3mm between the door and the frame using the top centre lateral adjustment (x) and by sliding the mechanism within the cement box. Fully tighten the top centre retracting screw (y).



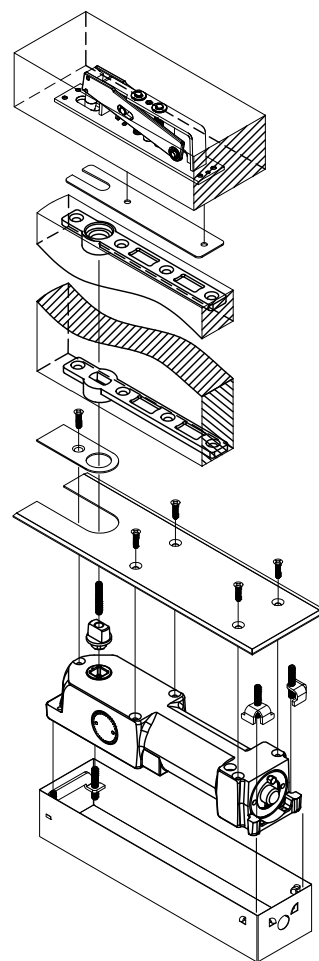
10. Check that the door returns to the correct centre position.

11. Adjust the gap at the top of the door to 3mm using the height adjustment screws (c). Slackening the clamp screws (a and b) as the mechanism rises. Ensure the mechanism is level. Longer spindle inserts are available if necessary.

12. Fully tighten each clamp screw (a and b) and tighten the height adjustment screws (c) for a firm fixing.

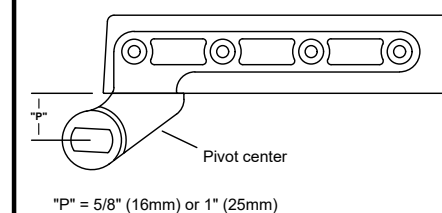
13. Adjust the speed control (h) to give a smooth closing speed of approximately 5 to 7 seconds closing from 90° open. If closing the speed valve completely, **do not over tighten valve.**

14. Screw on the cover plates of the mechanism and top centre.

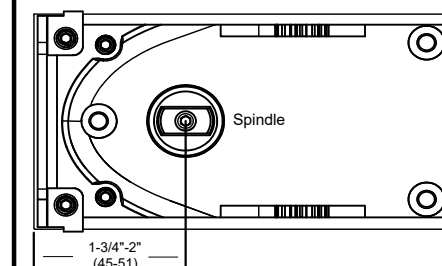


FOR SINGLE SWING DOORS

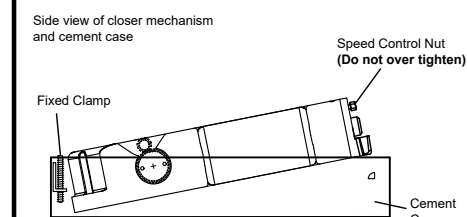
1. Note the position of the pivot centre relative to the door.



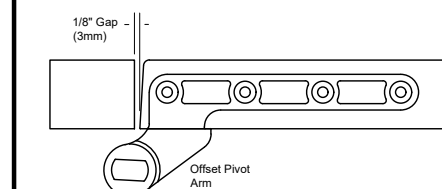
2. Note the minimum to maximum spindle position of the mechanism.



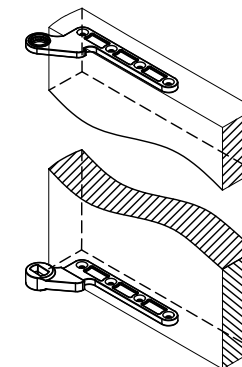
3. Remove the mechanism from the cement box. The screws for the removable clamps (b) should be unscrewed 10 turns each. Tap the clamps down to remove them from the sockets in the cement box. Lift the front of the unit using the adjustment spanner.



4. Set the cement box in the floor with the fixed clamps (a) nearest to the frame, taking care to align the spindle position with the centre of the heel radius of the door. Allow a 3mm gap behind the door.



5. Mortice into the door on the pivot centreline the bottom strap and the bearing half of the top centre. Mortice into the transom the pivot half of the top centre.

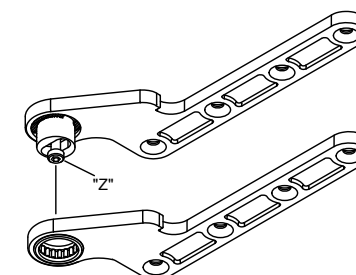


6. Replace the mechanism in the cement box. Ensure the removable clamps are engaged in their sockets and tighten the clamp screws. Screw on the spindle cover.

7. Position the door over the floor spring and locate the strap over the spindle.

8. Locate the top centre pivot and loosely bolt in place.

9. Adjust the vertical gaps to 3mm between the door and frame using the top centre lateral adjustment and by sliding the mechanism within the cement box. Fully tighten the top centre pivot retaining screw (z).



10. Adjust the gap at the top of the door to 3mm using the height adjustment screws (c). Ensure the mechanism is level. Longer spindle inserts are available if necessary.

11. Fully tighten each clamp screw (a and b). For 25mm offset straps it may not be possible to gain access to all four screws. Tighten down the height adjustment screws (c) for a firm fixing.

12. Adjust the speed control (h) to give a smooth closing speed of approximately 5 to 7 seconds closing from 90° open. If closing the speed valve completely, **do not over tighten valve.**

13. Screw on the cover plates of the mechanism and top centre.

