MAINTENANCE

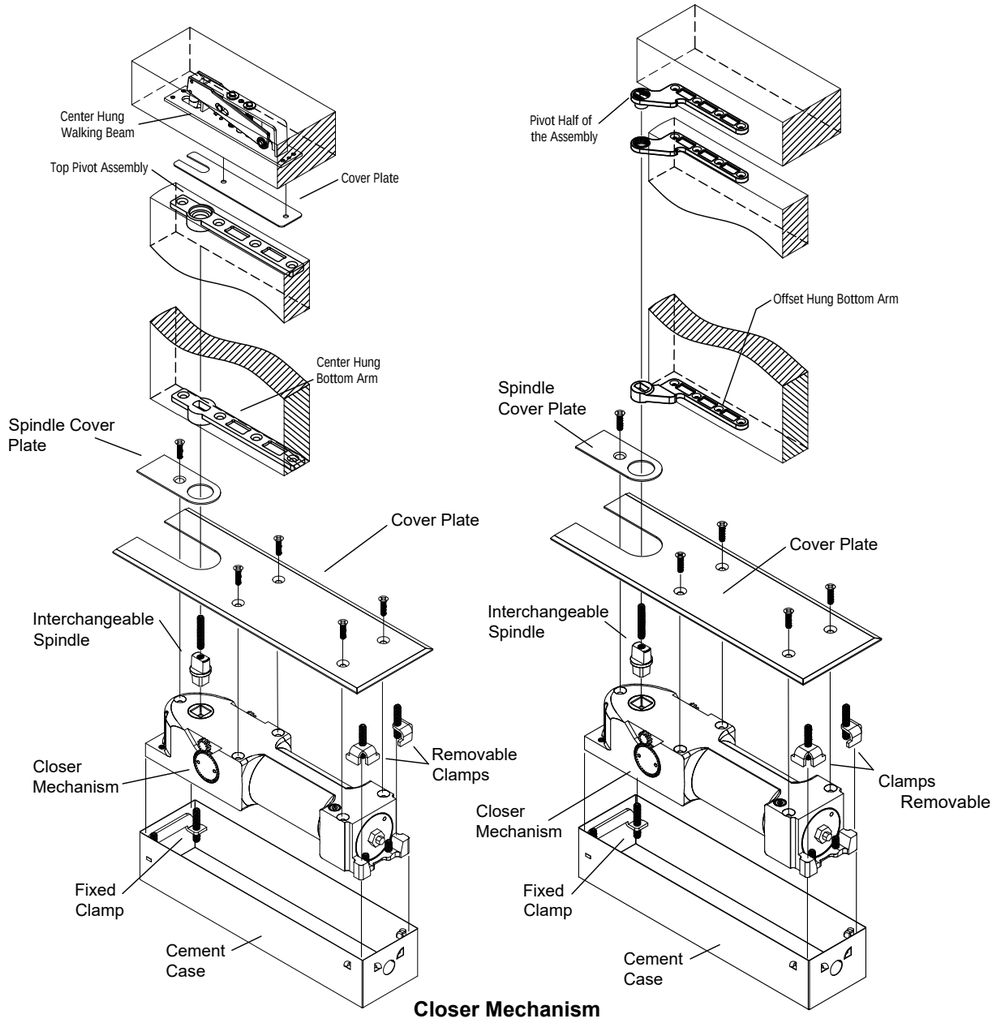
The internal mechanism of the floor closer is immersed in oil and has been designed so that it requires no maintenance. It is protected from misuse by an overload safety feature.

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.



Closer Mechanism

CE	ASSA ABLOY LTD SCHOOL STREET, WILLENHALL, WV13 3PW	certifire CF155						UK CA
2017								2023
2812-CPR-AD5251	EN 1154: 1996 + A1:2002	3	8	1-6	1	1	3	1121-CPR-XXXXXX

EXIDOR

INSTALLATION INSTRUCTIONS. **FLOOR SPRING SERIES 900.**

INTRODUCTION

Series 900 floor springs consist of a comprehensive range of closer units, accessories and cover plates. 900 series floor springs are shallow depth (60mm or 2 3/8") for thin slab constructions and are suitable for centre hung and offset hung installations (non-handed). Spring power adjustment is a standard feature for sizes 1 through 6.

The 900 series has micro centre adjustment which is particularly suitable for use on glass door installations and has interchangeable spindles and spirit levels to ease of site installation.

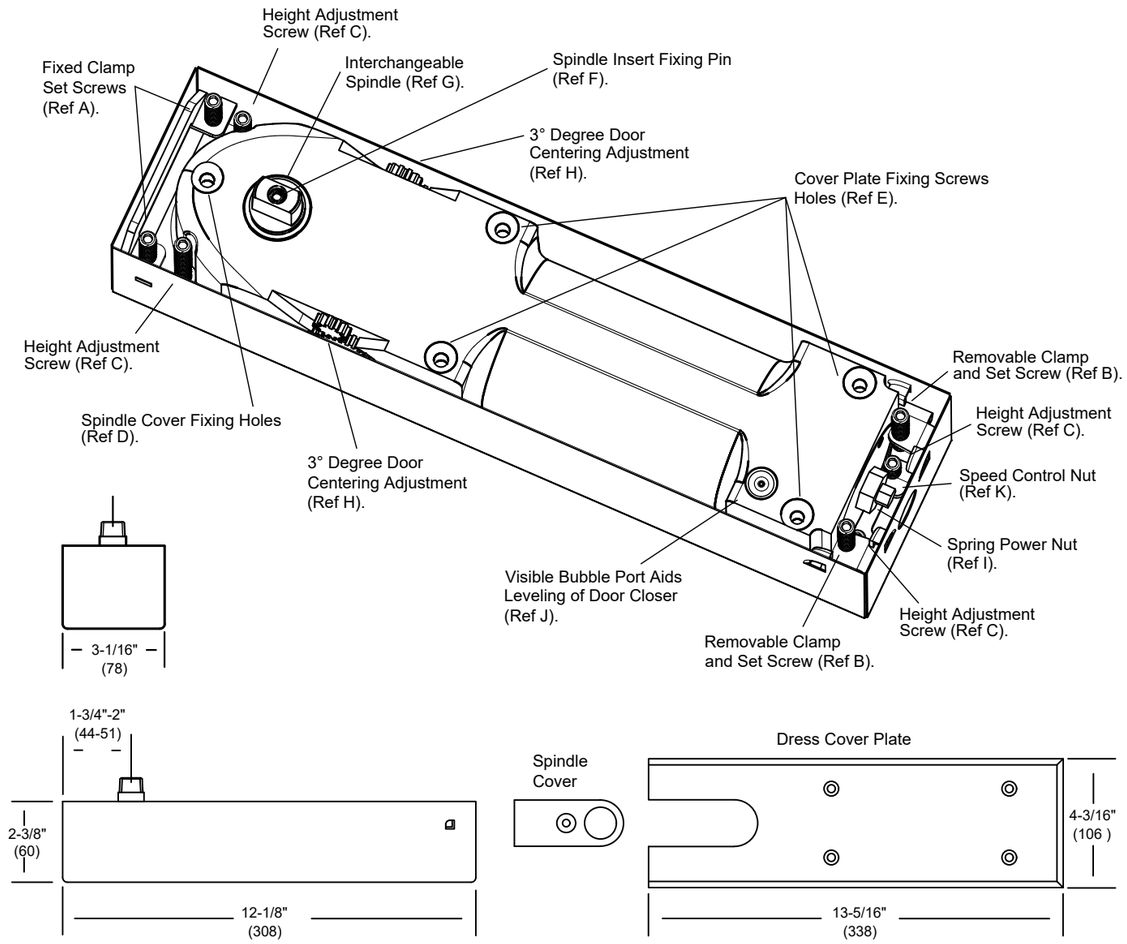
Offset hung accessories are available with either 16mm (5/8") or 25mm (1") offset and have lateral adjustment ±3mm.

The accessories are suitable for use with all 900 series floor springs. A full range of extension spindles and accessories for wood, metal and glass doors is available. For more information please contact sales on +44 (0)1543 460 030.

Follow the steps below to fit the unit. If you have a problem at any point, please contact us on +44 (0)1543 460 040.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION PROCEDURES RENDERS THE WARRANTY VOID.

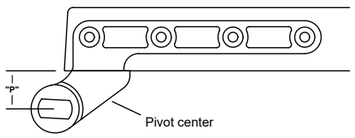
900 SERIES ILLUSTRATED



WARNING: SPECIAL PRECAUTIONS ARE REQUIRED FOR BOTH CENTRE AND OFFSET HUNG INSTALLATIONS FOR DOORS OVER 500 kgs (896 lbs). FOR TECHNICAL ADVICE PLEASE CALL +44 (0)1543 460 040.

FOR OFFSET HUNG DOORS

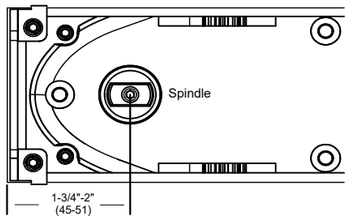
1. Note the position of the pivot centre relative to the door. Offset arms and pivots can be 16mm or 25mm offset.



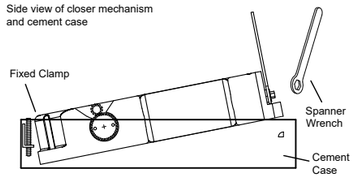
"P" = 5/8" (16mm) or 1" (25mm)

The offset is measured from the face of the door to the pivot centre.

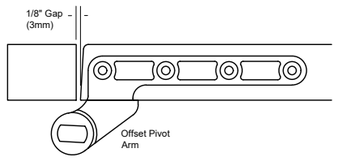
2. Note the minimum to maximum spindle position of the mechanism.



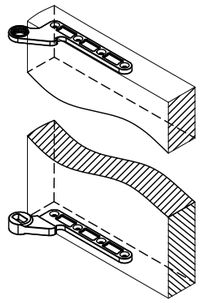
3. Remove the mechanism from the cement case. The screws for the removable clamps (b) should be unscrewed 10 turns each. Tap the clamps down to remove them from the sockets in the cement case. Lift the front of the mechanism using the adjustment spanner.



4. Set the cement case in the floor with the fixed clamps (a) nearest the frame taking care to align the spindle position with the pivot centre of the door. Allow a 3mm (1/8") gap behind the door.



5. Mortice into the door on the pivot centreline the offset arm and the bearing half of the offset pivot assembly. Mortice into the top jamb the pivot half of the offset pivot assembly.

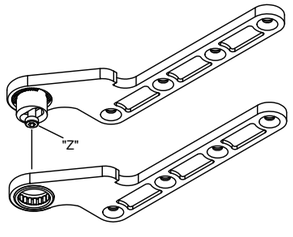


6. Replace the mechanism in the cement case. Ensure the removable clamps are engaged in their sockets and tighten the clamp screws (a & b). Screw on the spindle cover.

7. Position the door over the floor closer and locate the arm over the spindle. Try to keep the door as close as possible to vertical to avoid excessive loading on the spindle.

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

9. Adjust the vertical gaps to 3mm (1/8") between the door and the frame using the top centre lateral adjustment and by sliding the mechanism within the cement case. Fully tighten the top centre pivot retaining screw (z).



10. Adjust the gap at the top of the door to 3mm (1/8") 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 & b). For 16mm (5/8") offset pivots it may be possible to gain access to all four screws. Tighten down the height adjustment screws (c) for a firm fixing.

13. If the door is particularly heavy and/or wide, increase the backcheck resistance of the mechanism by increasing the power of the spring (i). The floor closer is set in the factory on power size 3. Keep any power increase to a minimum since the lower the power, the easier it is to use the door. (Turn clockwise to increase or anticlockwise to decrease the power).

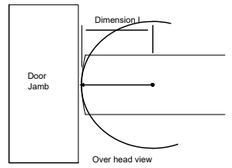
14. Adjust the speed control (k) to give a smooth closing speed of approximately 5 to 7 seconds closing from 90° open. If closing the speed valve completely, **do not over tighten valve.** Floor spring has controlled closing from 105°.

15. Screw on the cover plate for the mechanism. Fix on the arm pivot cover.

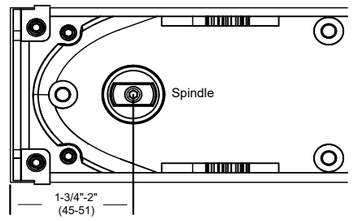
EN 1154 DOOR WEIGHT & RECOMMENDED WIDTHS.		
POWER SIZE OF CLOSER	MAX WEIGHT OF LEAF	WIDTH OF TEST LEAF
1	20 kg	750mm
2	40 kg	850mm
3	60 kg	950mm
4	80 kg	1100mm
5	100 kg	1250mm
6	120 kg	1400mm

FOR CENTRE HUNG DOORS

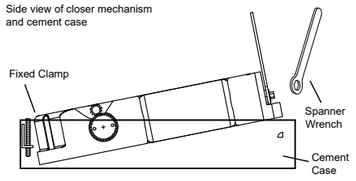
1. Determine the heel radius of the door (dimension I).



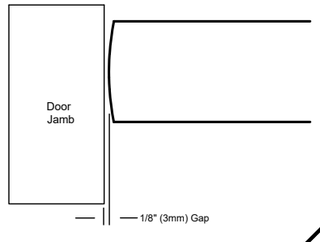
2. Note the minimum to maximum spindle position of the mechanism.



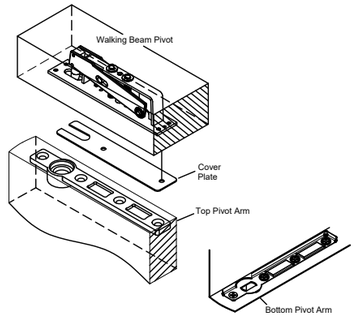
3. Remove the mechanism from the current case. The screws for the removable clamps (b) should be unscrewed 10 turns each. Tap the clamps down to remove them from the sockets in the cement case. Lift the front of the mechanism using the adjustment spanner.



4. Set the cement case 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 3mm (1/8") gap behind the door.



5. Mortice into the door on the pivot centreline the offset arm and the bearing half of the offset pivot assembly. Mortice into the top jamb the walking beam pivot.

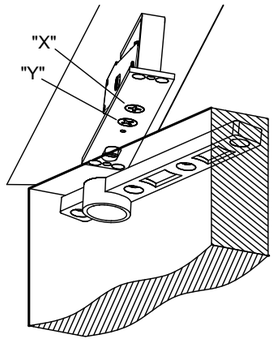


6. Replace the mechanism in the cement case. Ensure the removable clamps are engaged in their sockets and tighten the clamp screws (a & b). Screw on the spindle cover.

7. Position the door over the floor closer and locate the arm over the spindle. Try to keep the door as close as possible to vertical to avoid excessive loading on the spindle.

8. Carefully open the door and adjust down the walking beam pivot to engage in the bearing in door.

9. Adjust the vertical gaps to 3mm (1/8") between the door and the frame using the top pivot lateral adjustment (x) and by sliding the mechanism within the cement case. Fully tighten the top pivot retracting screw (y) until the position indicators are level with the base plate.



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

11. Adjust the gap at the top of the door to 3mm (1/8") using the height adjustment screws (c), slackening the clamp screws (a and b) as the mechanism rises. Ensure the mechanism is lever. 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 centre position of the door using the centering adjuster (h).

14. Adjust the speed control (k) 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.** Floor spring has controlled closing from 105°.

15. If the door is particularly heavy and/or wide, increase the backcheck resistance of the mechanism by increasing the power of the spring (I). The floor closer is set in the factory on power size 3. Keep any power increase to a minimum since the lower power, the easier it is to use the door (turn clockwise to increase or anticlockwise to decrease the power).

16. Screw on the cover plate of the mechanism and top pivot.

17. Power adjustment.

POWER ADJUSTMENT	
SCREW TURNS	POWER SIZE
4	1
6	2
8	3
11	4
16	5
23	6