

RTS Series x 8534

End load aluminum door and frame

Installation instructions

08062860 – 02-2020

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dormakaba 

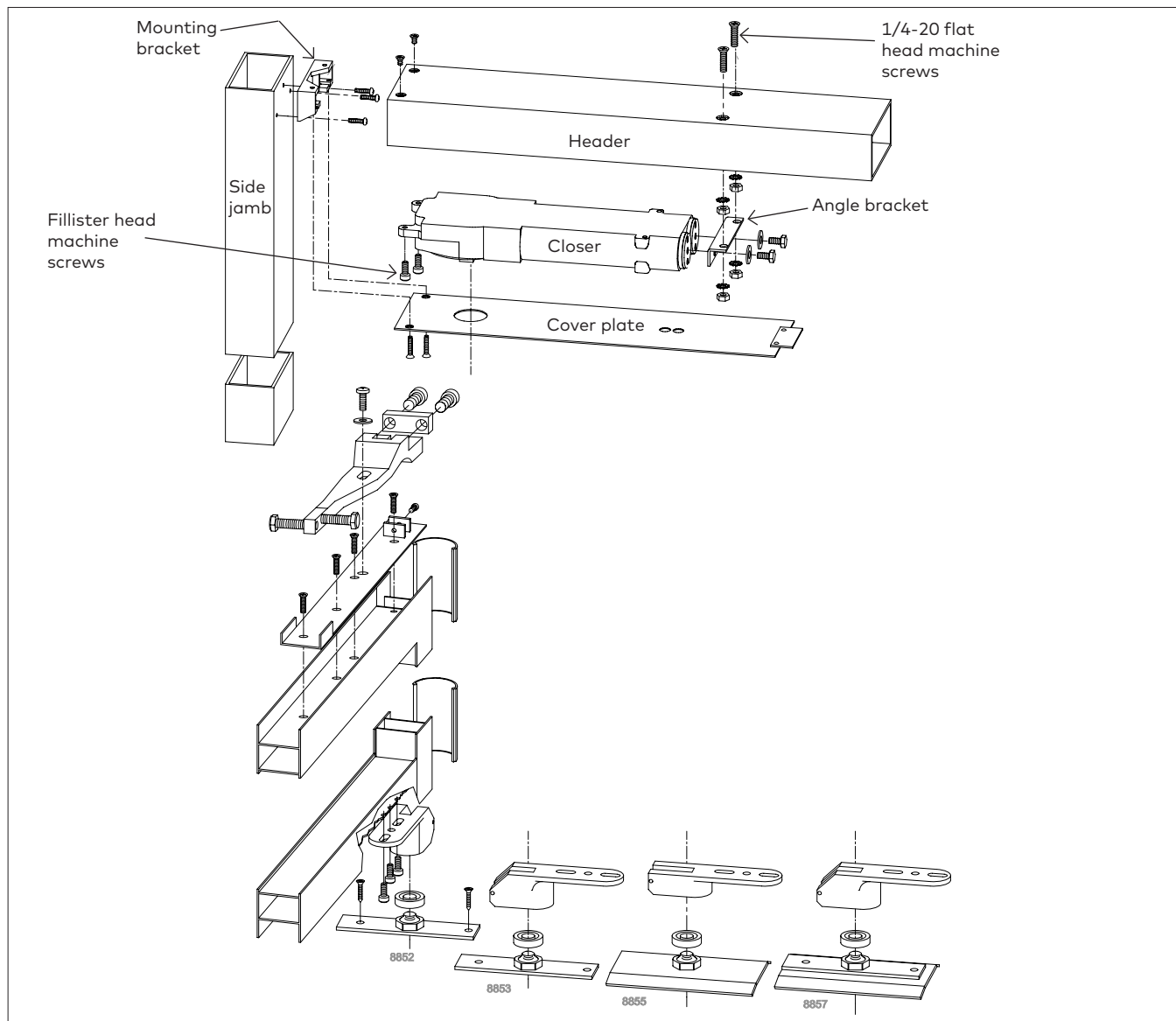
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1 Installation instructions

1.1 Prepare frame and install closer

Fig.1

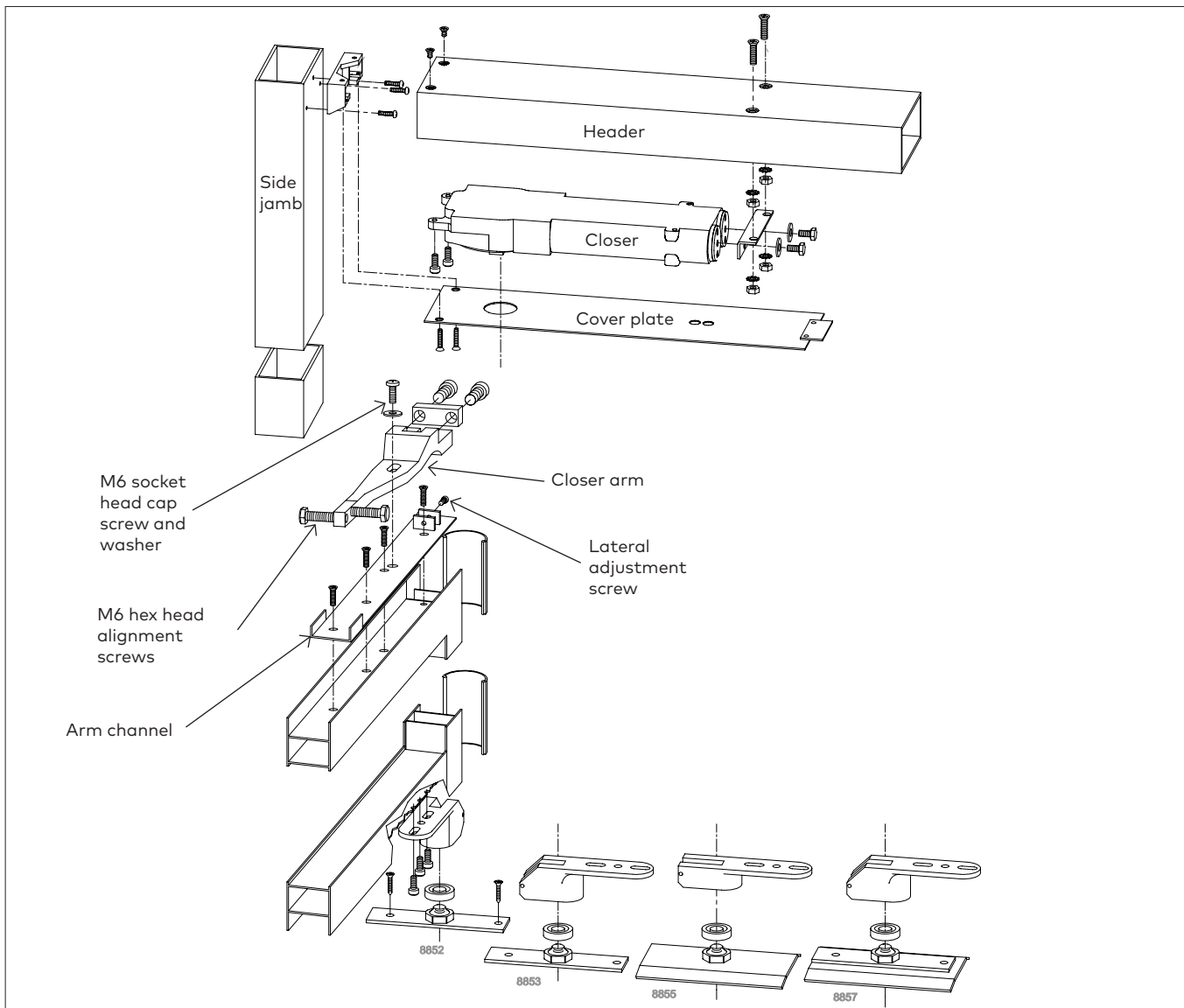


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|-------|---|--------|--|
| 1.1.1 | Prepare header and side jamb according to template. | 1.1.7 | Install closer into header by inserting mounting tabs into mounting bracket. |
| 1.1.2 | Fasten mounting bracket to side jamb with three No. 8-32 pan head machine screws. | 1.1.8 | Raise end of closer with angle bracket onto the two 1/4-20 screws. |
| 1.1.3 | Fasten header to side jamb with two No. 10-32 flat head machine screws. | 1.1.9 | Fasten angle bracket with the two remaining 1/4-20 nuts and lock washers. |
| 1.1.4 | Fasten two 1/4-20 flat head machine screws to header with lock washers and nuts. | 1.1.10 | Tighten the 2 fillister head machine screws securely. |
| 1.1.5 | Fasten angle bracket to closer with two hex head machine screws and flat washers. | 1.1.11 | Install cover plate by sliding tab into frame. |
| 1.1.6 | Install 2 fillister head machine screws into mounting tabs on closer; make approximately 3 turns. | 1.1.12 | Fasten opposite end to mounting bracket with two No. 8-32 flat head machine screws provided. |

NOTE: For RTS88 models only - do not remove spacer washers in mounting tabs.

1.2 Prepare top of door and install arm

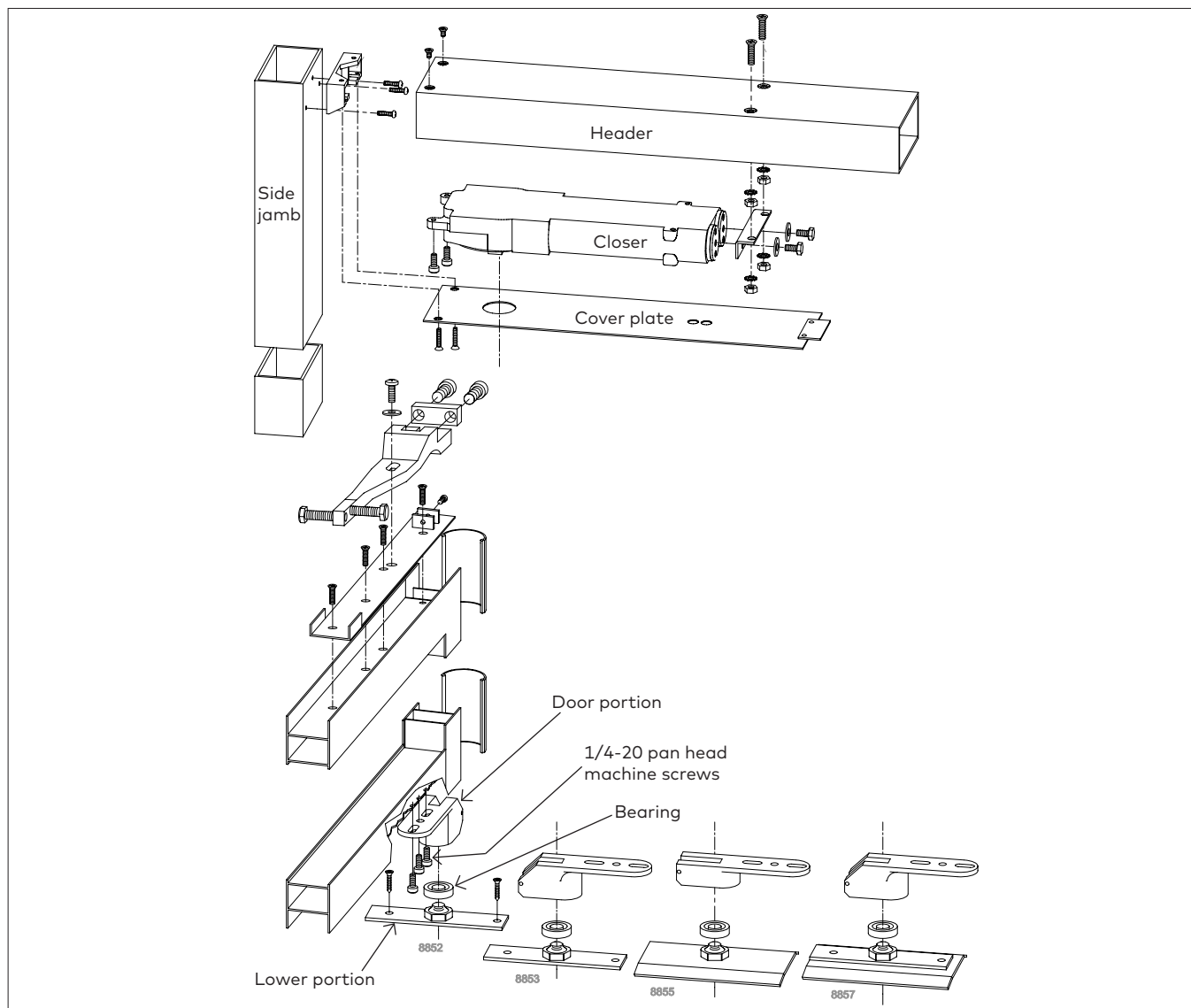
Fig.2



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|--|---|
| <p>1.2.1 Prepare top of door according to template.</p> <p>1.2.2 Fasten arm channel to door with four 10-32 flat head machine screws.</p> <p>1.2.3 Install the two M6 hex head arm alignment screws into closer arm.</p> <p>1.2.4 Attach closer arm to channel by centering broach in closer arm over reference hole in arm channel.</p> | <p>1.2.5 Keeping the closer arm centered in arm channel, turn both M6 hex head arm alignment screws counter-clockwise until they are wedged against arm channel.</p> <p>1.2.6 Tighten lateral adjustment screw until it contacts closer arm.</p> <p>1.2.7 Lock arm into place with M6 socket head cap screw and washer.</p> |
|--|---|

1.3 Prepare bottom of door and install pivot

Fig.3



8852 floor pivot: 7/8" web depth

8853 floor pivot: 1-9/16" web depth

- 1.3.1 Prepare bottom of door according to template.
- 1.3.2 Fasten door portion of bottom pivot with three 1/4-20 pan head machine screws.
- 1.3.3 Prepare floor or threshold according to template.
- 1.3.4 Fasten lower portion with two No.14 flat head wood screws and plastic anchors.

8855 threshold pivot: 7/8" web depth

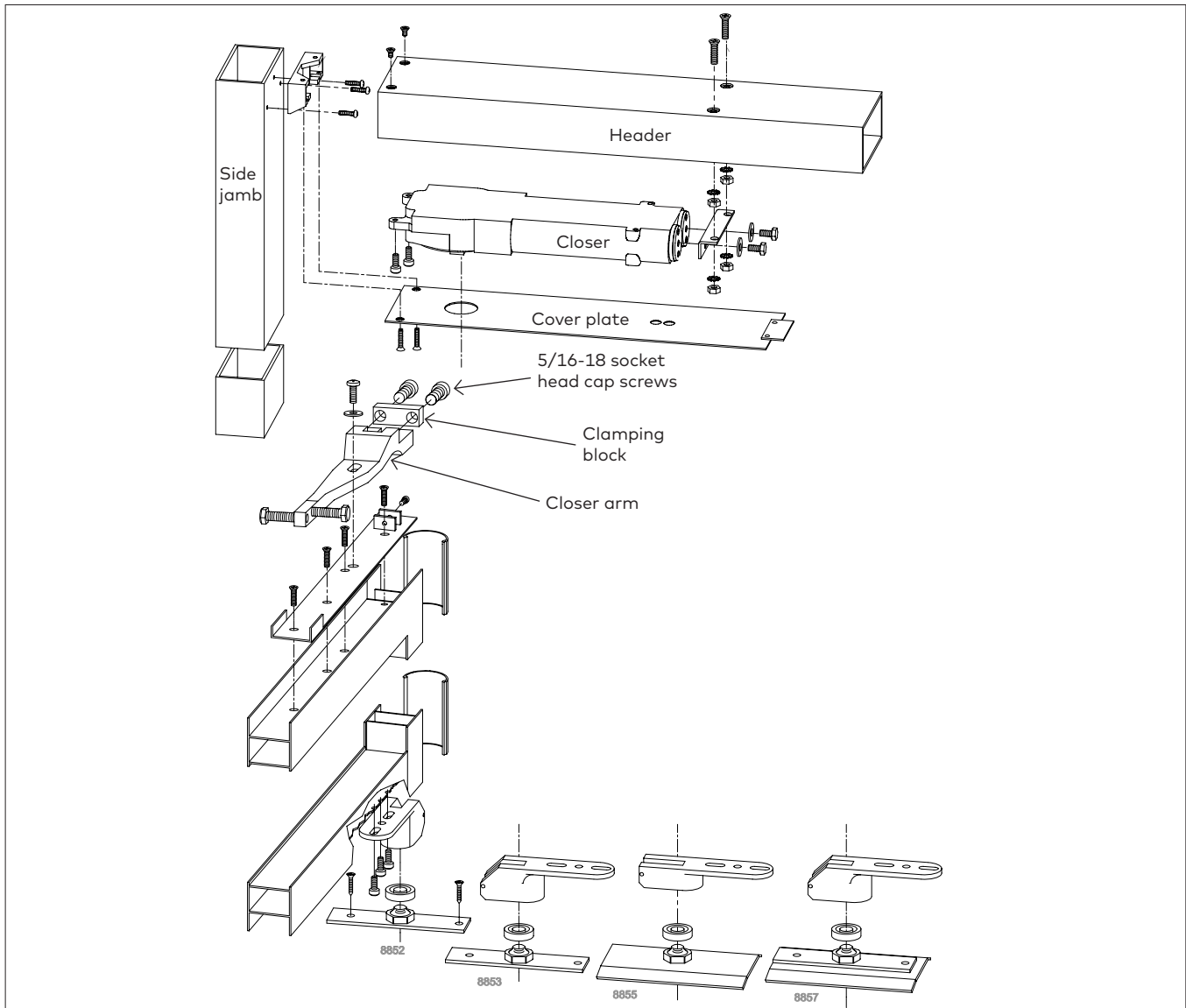
- 1.3.1 Prepare bottom of door according to template.
- 1.3.2 Fasten door portion of bottom pivot with three 1/4-20 pan head machine screws.
- 1.3.3 Prepare threshold according to template.
- 1.3.4 Fasten lower portion with jamb nut.

8857 threshold pivot: 1-9/16" web depth

- 1.3.1 Prepare bottom of door according to template.
- 1.3.2 Fasten door portion of bottom pivot with two 1/4-20 pan head machine screws.
- 1.3.3 Prepare threshold according to template.
- 1.3.4 Fasten lower portion with two No. 14 flat head wood screws and plastic anchors.
- 1.3.5 Place bearing onto bottom portion of pivot.
- 1.3.6 **IMPORTANT: TO FIT BEARING CORRECTLY, THE ENCLOSED SIDE SHOWING THE NOMENCLATURE OF THE BEARING MUST FACE DOWN.**

1.4 Install door

Fig.4



Hold open closer:

- 1.4.1 With a large adjustable wrench, turn closer spindle to hold open position (90° - 105°).

Non-hold open closer:

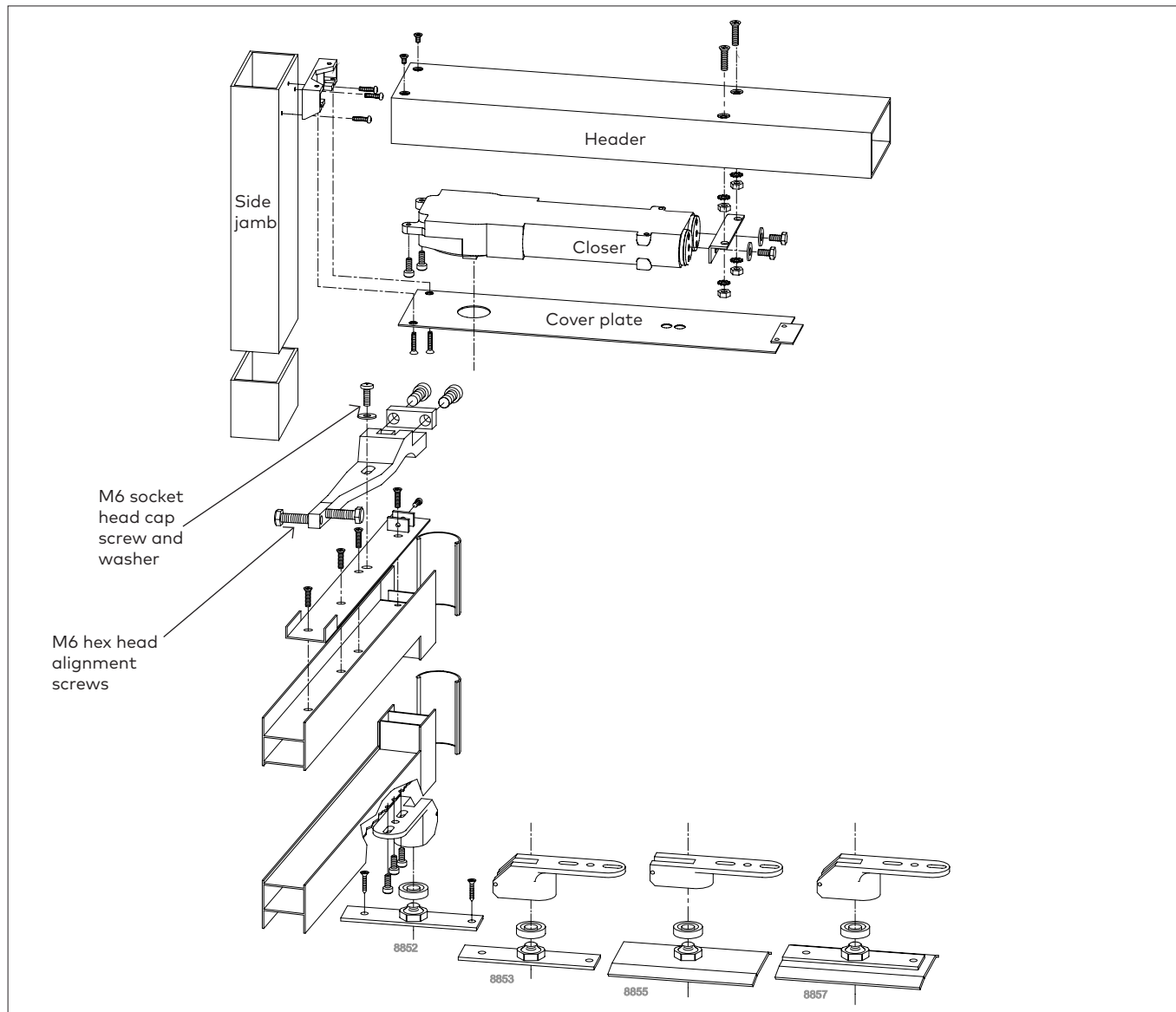
- 1.4.2 Completely close valves "A" and "B" by turning clockwise.
- 1.4.3 With a large adjustable wrench, turn closer spindle to approximately 90°.

- 1.4.4 Position door at angle that coincides with the closer spindle.
- 1.4.5 Align top of door with closer spindle and bottom of door with pivot.
- 1.4.6 Slide top and bottom of door into position SIMULTANEOUSLY.
- 1.4.7 Fasten clamping block to arm with 5/16-18 socket head cap screws.
- 1.4.8 Alternate fasteneing screws when tightening clamping block.
- 1.4.9 TIGHTEN SECURELY.

2 Adjustments

2.1 Door alignment

Fig.5



2.1.1 Double acting -

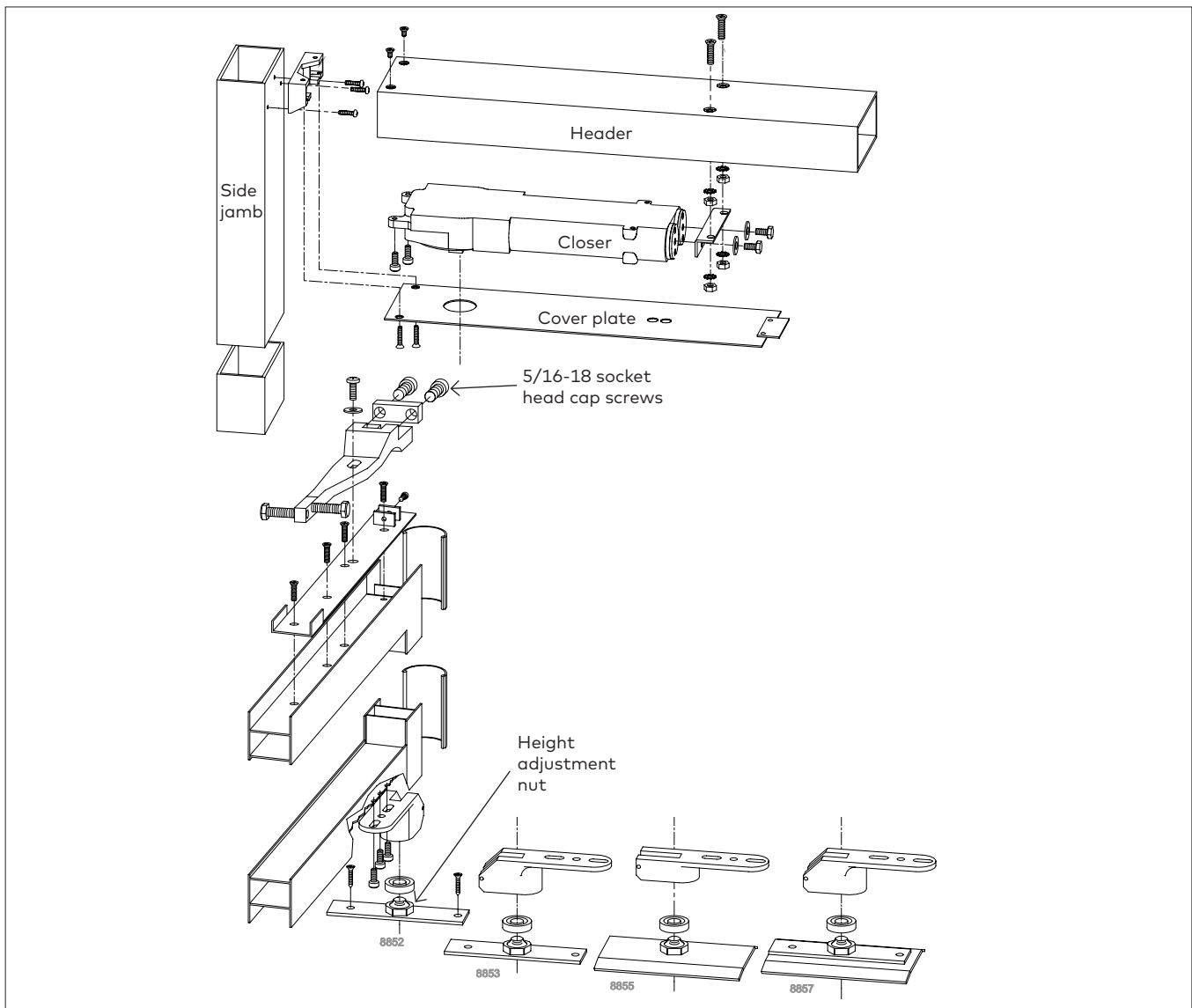
- Center door in frame by loosening M6 socket head cap screw and adjusting the two M6 hex head alignment screws as required.
- Retighten M6 socket head cap screw.
- **TIGHTEN SECURELY!**

2.1.2 Single acting -

- Adjust arm to insure that door closes tightly against stop.
- Loosen the M6 socket head cap screw.
- Adjust arm fully in the direction of door swing.
- To adjust clearance between door and frame, adjust lateral adjustment screw.
- Retighten M6 socket head cap screw.
- **TIGHTEN SECURELY!**

2.2 Clearance adjustments (if required)

Fig.6



2.2.1 If clearances differ from those shown on the template, adjust in the following manner.

2.2.2 Loosen 5/16-18 socket head cap screws.

2.2.3 Height adjustment is made by turning adjustment nut on lower portion of pivot.

Adjustment ranges - reference template.

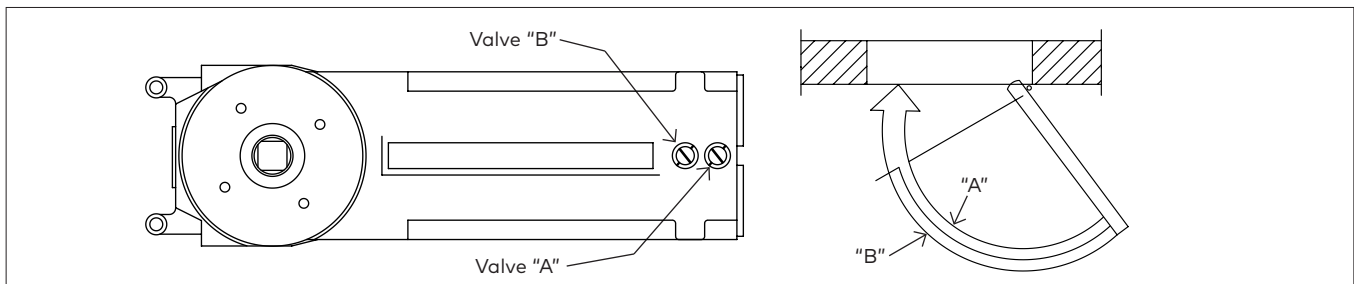
- Clockwise - raises the door
Counter-clockwise - lowers the door

2.2.4 Retighten socket head cap screws.

2.2.5 TIGHTEN SECURELY!

2.3 Adjust closing speeds

Fig.7



2.3.1 Valve "A" - controls closing speed from maximum opening angle to 0°.

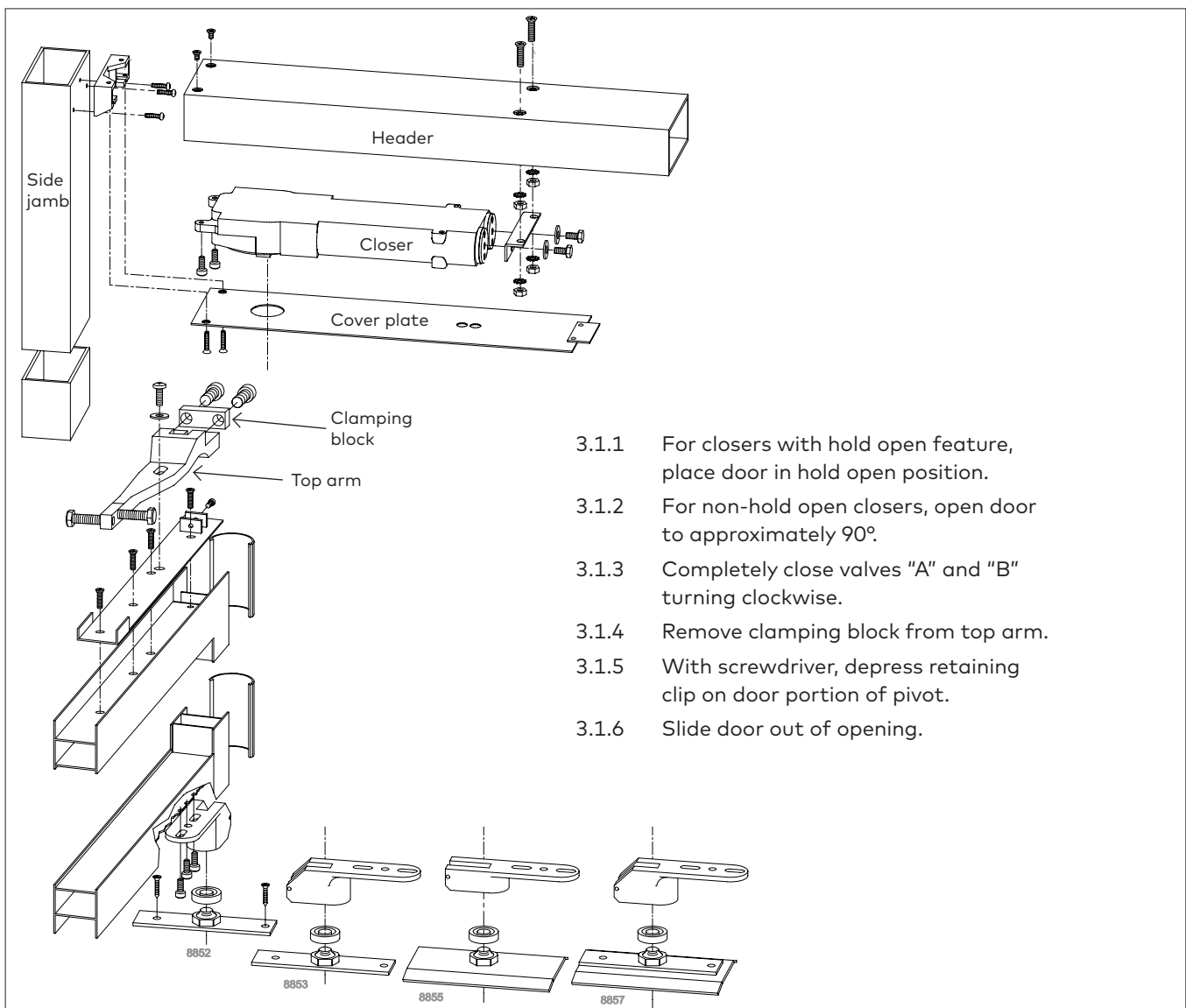
- Clockwise - decreases closing speed
- Counter-clockwise - increases closing speed

2.3.2 Valve "B" - increases closing speed from maximum opening angle to 20°.

Counter-clockwise - increases closing speed.

3 Door removal

Fig.8



- 3.1.1 For closers with hold open feature, place door in hold open position.
- 3.1.2 For non-hold open closers, open door to approximately 90°.
- 3.1.3 Completely close valves "A" and "B" turning clockwise.
- 3.1.4 Remove clamping block from top arm.
- 3.1.5 With screwdriver, depress retaining clip on door portion of pivot.
- 3.1.6 Slide door out of opening.

