

Automatic Flood Protection Gate Installation Manual

This manual explains how to assemble the gate, install its drive shaft and covers, and carry out initial equipment checks. Follow the numbered steps together with the accompanying photographs.

1 Position the side posts

1.1. Unpack the posts

Move the post packaging close to one side of the wall. Open the packaging and remove the connecting rods, water sensor cup and other accessories stored inside the post cavities.

1.2. Stand both posts upright

Raise the left and right posts upright together. Take care with all controller wiring between the posts; do not pull or strain the cables. Position the left post against the wall and the right post perpendicular to the wall to allow access for fitting components at the front and rear of the gate.



Figure 1. Unpack the side posts and remove the stored accessories.

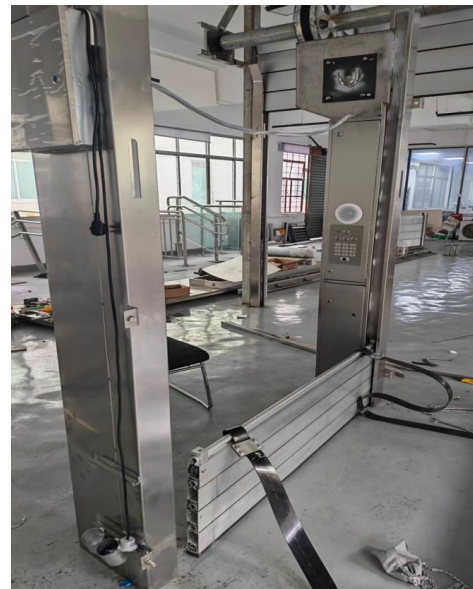


Figure 2. Stand the posts upright without straining the interconnecting cables.

2 Fit the support rods and barrier panel

2.1. Fit the side support rods

Move the drive shaft and barrier-panel packaging behind the gate. Unpack the side support rods and attach them to the left and right posts respectively.

2.2. Insert the aluminum barrier panel

Lay the barrier panel and drive shaft parallel to each other, keeping the drive shaft orientation consistent with the installed posts. Slide one end of the aluminum panel straight into the lifting guide channel in the left post. Then move the right post so that the other end of the panel enters its lifting guide channel.

2.3. Confirm the supplied configuration

The current model requires no rear supports or connecting rods for a 1200 mm protection height, subject to the approved opening width. Use the project-specific assembly drawing. For greater protection heights, contact the manufacturer to confirm the design before installation.



Figures 3-4 show an earlier assembly arrangement. Connecting rods pictured are not required for the current approved 1200 mm configuration. Refer to the supplied project drawing for the actual components.

3 Install the drive shaft

3.1. Raise the barrier panel

Before installing the drive shaft, place supports beneath the barrier panel to raise it by **at least 200 mm**. This provides the clearance needed to insert the shaft into the mounting slots at the tops of the left and right posts.

3.2. Seat and secure the shaft

First loosen the drive-shaft mounting-slot screws at the top of the right post. Lift the shaft, keep it level and insert both ends into the corresponding mounting slots at the tops of the posts. Tighten and lock the mounting-slot screws.

Important: Keep the steel straps clear of wiring and all structural components. Do not allow straps and wiring to cross or become entangled.



Figure 5. Drive shaft and steel straps before the shaft is lifted into position.



Figure 6. Drive-shaft mounting area at the top of a side post.

3 Install the drive shaft continued

3.3. Connect the drive motor

Locate the matching drive-motor signal connector on the right post. Align the mating connectors and plug them together. Remove the electrical-enclosure key and connecting screws from the motor zip bag in which they were supplied.

Do not adjust the factory-set travel limits. The upper and lower gate travel limits have been set before delivery. Unauthorized adjustment may cause the gate to overrun its upper limit or cause other accidents. The manufacturer accepts no responsibility for incidents resulting from such adjustment.



Figure 7. Drive shaft installed across the top of the gate.



Figure 8. Drive-motor connection area and wiring.

4 Install the covers and secure the cables

4.1. Fit the front drive-shaft cover

Engage the two inside lower corners of the cover in the corresponding post slots. Avoid damaging the interconnecting electrical cables. Tighten the **eight M5 screws** at the two ends of the cover to secure it.

4.2. Secure the interconnecting cables

Use hot-melt adhesive or double-sided tape to secure the cables along the folded edge of the cover. Keep all wiring clear of the drive-shaft rollers so that it cannot be caught, pulled or torn.



Figure 9. Cover engagement point on one side.



Figure 10. Cover engagement point on the opposite side.

4 Install the covers continued

4.3. Check the current assembly drawing

No top connecting rod is required for the approved 1200 mm configuration.

4.4. Fit the rear top cover

Use the fixing arrangement specified in the supplied project drawing.

The previous rod-mounted cover instruction does not apply. Contact the manufacturer if the supplied cover or fixing arrangement is unclear.



Figures 11-12: earlier cover arrangement, shown for reference only.
Use the fixing details supplied for the current model.

5 Check the electrical and control equipment

5.1. Inspect the wiring in both posts

Use the universal triangular key to open the electrical-enclosure doors on the left and right posts. Check for loose or disconnected wires. Check that wiring cannot be rubbed or abraded by the actuator motor as it moves up and down, and that it does not obstruct the limit switches. Re-secure the wiring as necessary, then close and lock both inspection doors.

5.2. Fit the sensor cup and test water detection

Hang the supplied water sensor cup on the support rod at the right post. To test automatic water detection, pour tap water into the cup.

Important: In normal conditions, the water-detection sensor must not remain submerged. If it is immersed, the system treats the gate as being in a flooded condition and prevents the gate from opening or other operations from being carried out.

5.3. Connect the power supply

Wide-input supply: 80-235 V. Follow the equipment nameplate and supplied electrical instructions when connecting power.

5.4. Access the controls

Use a fingerprint or password on the control panel to access the operating system. Follow the voice prompts to operate the gate.

Control-panel access: After each opening, closing or automatic water-detection operating cycle, the system automatically disables panel operation. To operate the gate again, authenticate with a fingerprint or password.

6 Operating instructions

For detailed operating procedures, refer to the separate Automatic Flood Protection Gate Operating Manual.

Company information

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CURRENT MODEL - CONFIRMED CONFIGURATION

Motorized roll-up opening; water-triggered closure.

Standard: backup power, manual operation, audible/visual alarm and infrared anti-pinch protection. Wide-input power supply: 80-235 V.

1200 mm protection height without rear supports or connecting rods, subject to approved opening width and site conditions. Greater heights require manufacturer design confirmation. Use the supplied project drawing.