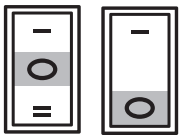
Quick Start Guide
ED50/ED100/ED250

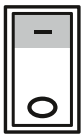
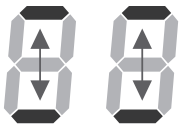
NOTICE

This guide is intended to be used as a reference to assist a trained and certified AAADM technician in programming the dormakaba:

- ED50 operator in accordance with ANSI A156.19 Standard for Low Energy Power Operated Doors.
- ED100/ED250 operators in accordance with ANSI A156.19 or ANSI A156.10 Standard for Power Operated Pedestrian Doors.

- The ED operator must be completely installed per the applicable dormakaba Installation Instruction Manual.
- Door must be closed. Both program switches in the CLOSE "0" position.
- All terminal blocks need to be installed. No safety sensors connected.



Step 1	Power switch to ON position. • A series of numbers and letters will show up on the display. • This will stop after two horizontal dashes sideby side move up and down several times.	
Step 2	While the dashes are moving up and down, press the bottom button on the display. • This will identify which way the unit is mounted. • Letters and numbers will now display right side up.	
	The display will show a "P" on the right with a rotating segment on the left.	

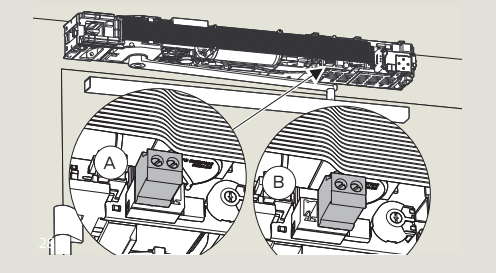
WARNING

Verify **power fail closing speed** and **braking circuit plug position** before programming the door and completing a learn cycle.

Power fail closing speed.

- The door must be adjusted to close in no less than three seconds but a minimum of five seconds is recommended.

Braking circuit plug position



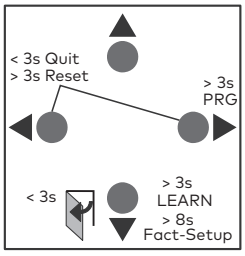
A – Pull arm B – Press arm

When the braking circuit plug is in the correct position the door will easily Press open and close slowly. If the door is very hard to Press open change the jumper position.

WARNING

If braking circuit plug is inserted incorrectly, brake circuit will not work. The door can close at high speed!

Step	Directions	Expected results
3	Press and hold the right button until Parameter ID is displayed (approximately 3 seconds), then release the button.	Parameter ID will appear (ex. **AS**).
4	Press the right button.	Displays the current setting.
5	Press the right button.	Display will flash the current setting.
6	Press the up and down buttons to change the setting.	
7	Press the right button to accept the changes.	Displays the new parameter setting.
8	Press the left button to return to the programming menu.	Displays the current Parameter ID (Step 3).
9	Press the down button to go to the next parameter setting (or)	Go back to Step 4.
	Press the left button to exit programming menu.	Display will show a rotating segment and a "0".



All three required parameter settings (AS, rd, Tb) must be made to flash even if the value does not need to be changed before the door will move to the learn cycle.

Step	Configuration Parameter		Range Factory Settings	* Factory setting.	
10	Installation type	AS	0-4	**0***	Pull arm with track, wall mounting on pull (hinge side).
				1	Press arm, wall mounting on approach (non-hinge side).
				2	Press arm with track, wall mounting on approach (non-hinge side).
				3	Overhead concealed (OHC) right hand.
				4	Overhead concealed, left hand.
11	Reveal depth	rd	ED50/100 -3 to 30 ED250 -3 to 50	**0***	Reveal depth **rd** is set in increments of 10 mm (3/8″). Example: 4 = 40 mm (1 9/16″)
12	Door width	Tb	ED50/100 7 to 11 ED250 7 to 16	**10***	The astragal is included in the door width. Door width **Tb** is set in increments of 100 mm (4″). Example: 9 = 900 mm (36″).

Learn Cycle: a "0" displayed on the right side and a rotating segment on the left indicates the unit is ready for a learn cycle.

- To start the learn cycle, press and hold the bottom button for until the display changes (approximately three seconds).

The door will make several movements and the display will cycle through several letters and numbers.

When the display stops at "4" push the door open to the desired opening angle between 90 and 110 degrees, then let go of the door and press the bottom button to continue the learn cycle.

If the door closes and an "F" is displayed, this is an indication that the spring force is too low.

1. Turn off the power.
2. Increase the spring force.
   - The spring should have a minimum of 10 turns and a maximum of 18 to 24 turns (24 on ED250).
3. Restart the learn cycle. Press and hold the bottom button until the display changes (approximately three seconds).

The operator will complete the learn cycle.

- When finished, there will be two horizontal bars side by side on the display.
- You can now continue with the programming and customize the door as desired.

Reveal depth rd

ED50/ED100/ED250		ED250	
rd	Inches	**rd**	Inches
-3	- 1 3/16	31	12 3/16
-2	-3/4	32	12 9/16
-1	-3/8	33	13
0	0	34	13 3/8
1	3/8	35	13 3/4
2	3/4	36	14 3/16
3	1 3/16	37	14 9/16
4	1 9/16	38	14 15/16
5	1 15/16	39	15 5/16
6	2 3/8	40	15 3/4
7	2 3/4	41	16 1/8
8	3 1/8	42	16 1/2
9	3 9/16	43	16 15/16
10	3 15/16	44	17 5/16
11	4 7/16	45	17 11/16
12	4 3/4	46	18 1/8
13	5 1/8	47	18 1/2
14	5 1/2	48	18 7/8
15	5 7/8	49	19 5/16
16	6 5/16	50	19 11/16
17	6 11/16		
18	7 1/16		
19	7 1/2		
20	7 7/8		
21	8 1/4		
22	8 11/16		
23	9 1/16		
24	9 7/16		
25	9 13/16		
26	10 1/4		
27	10 5/8		
28	11		
29	11 7/16		
30	11 13/16		

Door width Tb

Tb	Inches	**Tb**	Inches
7	28	10	40
8	32	11	44
9	36	12	48