

Summary	Spiral Door Motor Replacement on Efaflex Controllers.				
Products Affected	Efaflex Controllers with the Mitsubishi Frequency Drive Models FRE-500 or FRE-700 on SST-L, SST-S, SSN-L/R,				
Key Word Tags	Efaflex, Motor, Frequency Drive				
Tools/Equipment (If Required)					
Parts/Materials (If Required)					
Related Media					
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PLEASE READ ENTIRE BULLETIN BEFORE PROCEEDING

NOTE: THIS BULLETIN DOES NOT APPLY TO SPIRAL DOOR MODELS HS-HIGH SPEED OR FV-FULL VISION TYPE SPIRAL DOORS.

⚠ CAUTION

DO NOT OPERATE DOOR BEFORE MAKING PARAMETER CHANGES.

The motor gearbox manufacturer supplying replacement motors for standard speed Spiral doors has implemented a change in the gearbox ratio. This gearbox ratio change will affect the operation and performance of the Spiral door. Therefore, changes to the frequency drive are required. The control panel contains either a Mitsubishi frequency drive controller model FRE-500 or FRE-700. The frequency drive will have "Mitsubishi" written on the box located in the upper right hand corner of the control panel. The box is beige in color approximately 4 inches wide by 5 inches high and 6 inches deep.

Near the top of the frequency drive is a cover plate that has 2 indicator LED's. One LED is yellow in color with POWER written to the left, the other LED will be RED when lit and read "ERROR". This cover plate can be removed by simply pinching the 2 tabs located on the left and right edges near the middle. Removing the plate will expose a telephone jack connector. The programming faceplate can now be snapped into position. Simply line up the telephone jack in the appropriate area and push into position. When installed correctly and power applied the faceplate will illuminate and is ready for programming.

If your frequency drive unit doesn't have programming faceplate you will need to order this part from Rytec. Part number R0011741.

The programing faceplate is installed and the frequency drive control is ready for programming.



The display will light up with 3 zero's.

The following steps must be followed to allow the frequency drive to be programmed. The first step is to enter the parameter mode and set parameter 79 to 3.

1. Push the "MODE" button until the display reads "Pr.."
2. Push "SET", the display will read "000" and the 0 to the left will be flashing.
3. Push "SET" the display will read "000" and the middle 0 will be flashing.
4. Push the up arrow until the display read "070"
5. Push "SET" the display will read "070" and the 0 on the right will be flashing.
6. Push the up arrow until the display reads "079".
7. Push and HOLD the "SET" key until the display reads P.79.

If the display reads P.80 you did not hold the "SET" key long enough and the process must be restarted.

The following additional parameters must also be set before operating the door.

Parameter	Description	Value
0	Torque	8
4	Sync speed	15
5	Sync speed	25
6	Creep speed	35
7	acceleration	0.8
8	deceleration	0.6
9	thermal	14
11	DC injection T	0.2
12	DC injection V	5
13	ST frequency	0.5
24	Speed 4 (creep, run)	30
25	Speed 5 (close)	50
26	Speed 6 (Open slow down)	60
27	Speed 7 (High open)	70

30	Regen	1
42	Out detection	6
65	Re-entry	3
67	Number of tries	3
68	Wait	0.5
70	Brake Duty	10
72	PWM	10
190	RUN	0
191	FU	4

The frequency drive is now programmed and the limits can be set on the door and begin operation. The programming faceplate can be removed or left installed on the drive.

If there are any questions, please call Rytec Customer Service at 1-800-628-1909.