



Model EBD-B
EBD Motor for Dampers-by-Others

Application and Design

The Young Regulator EBD-B is a motorized balancing damper assembly for dampers by others. A convenient bracket / motor kit allows for the simple installation of a low voltage DC motor onto an existing damper. This motor requires no power from the building. All power to operate the damper is provided with our hand-held power pack positioner, the EBDP.

Simply install the motor bracket to the damper over the existing damper shaft, plug in the UL Listed 6-wire shielded cable (EBDC) into the motor, and run the other end of the cable to the location from where the damper will be controlled (up to 1,000 feet away). Cables are most commonly terminated within a wall Jack (EBD-WALL), but can also be concealed in a ceiling cup (EBD-301) or common location such as a closet or mechanical room.

The EBDP Power Pack / Positioner is plugged into the jack, providing power required to operate the damper. A toggle switch on the positioner runs the damper from full open to full close. An LCD meter provides a visual indication of damper position via resistive feedback output from the motor.

Controlling an inaccessible balancing damper has never been easier than with the Young Regulator EBD-B.



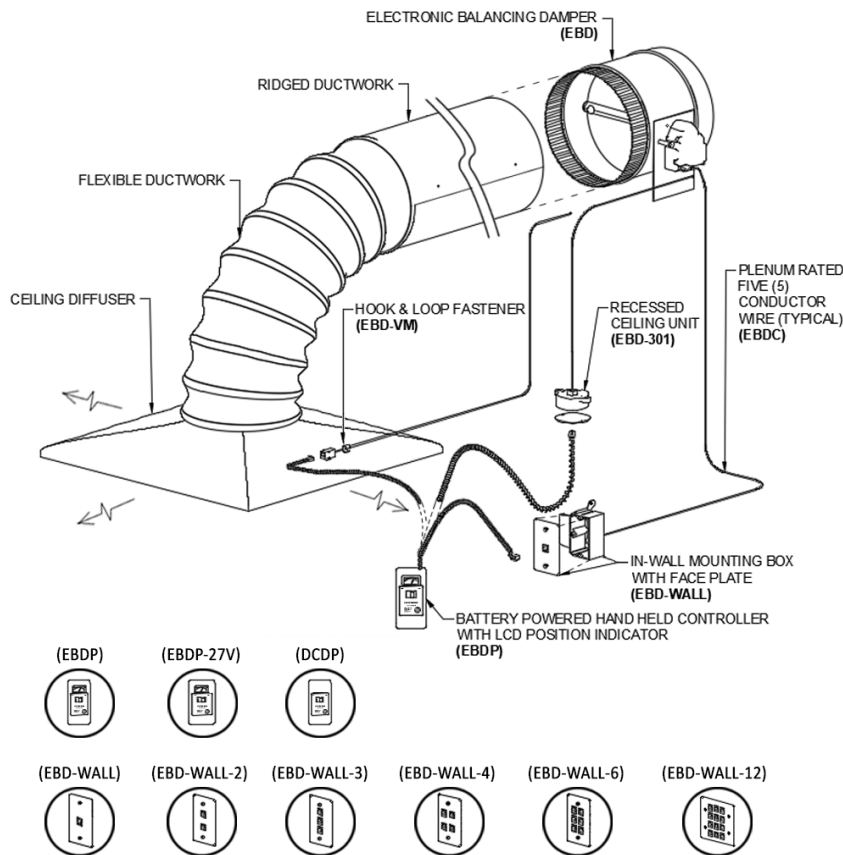
ACTUATOR	
Volts	12V DC
Watts	0.5
Am	20 mA
Timing	12 sec 90* Rotation
Torque	16 lbs. in. (max)
ACCESSORIES	
REQUIRED	TERMINATION OPTIONS
EBDP (Positioner) <i>One per Order Minimum</i>	EBD-WALL (1,2,3,4,6, or 12) <i>One Port per Damper</i>
EBDC (Plenum Rated Cable) <i>One length Damper</i>	EBD-301 (Concealed Ceiling Cup) EBD-VM (Hook & Loop Fastener)

DAMPER REQUIREMENTS		SHAFT SIZE OPTIONS	
Round	Under 16" diameter	Standard (EBD-B)	3/8" square or 1/2" round
Rectangular	Under 3 square feet	Optional (EBD-BQ)	1/4" square or 5/16" round
NO SEALS			
Must be CW to open			
Damper blade must be in closed position			

Quantity	Option	Notes
PROJECT		LOCATION
CONTRACTOR		DESIGN SPECIFIER



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NOTES:

1. Coordinate exact location of EBD-B damper and termination point with architect prior to installation.
2. The handheld position controller shall be turned on by pressing the rocker switch and will automatically turn off after 10 minutes of inactivity. The rocker switch also enables the meter to indicate damper position. Once the handheld position controller is connected to the wall unit, the integral LCD meter indicates blade position operating over a range of 0 – 100% open via a voltage signal that is proportional to the blade angle.
3. The position of the damper blade shall be controlled by the use of a front mounted rocker switch, opening the damper by depressing the right side of the switch and closing the damper by depressing the left side of the switch. The integral LCD meter shall indicate the exact position of the damper blade. The rocker switch shall return to the neutral center position when released.
4. A 9V lithium battery shall power the positioner. Replace the battery in the handheld position controller with the same type of battery to maintain the calibration of the handheld position controller. Replacement batteries are available from Young Regulator Co. and many retail outlets. Dispose of used batteries in accordance with local regulatory and environmental codes.
5. EBDC cables shall not be longer than 1,000ft. in length. Field installed terminations may be required for a complete assembly. Field connection between 12V DC motor and termination shall be made with snap on connectors installed by the factory.
6. One EBDP handheld position controller shall be required per job

Quantity	Option	Notes
PROJECT		LOCATION
CONTRACTOR		DESIGN SPECIFIER