



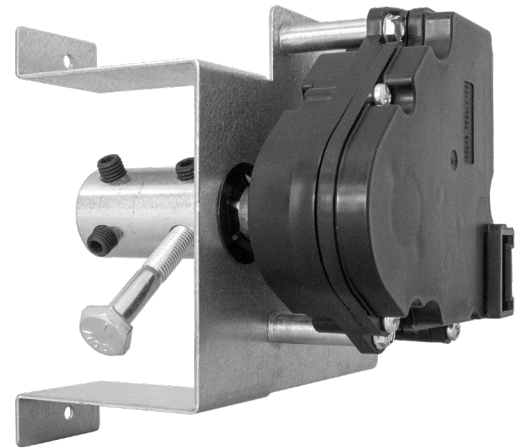
**Model EBD-B**  
*EBD Motor for Dampers-by-Others*

**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.

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



\*\*EBDP Positioner

DAMPER REQUIREMENTS	
Round	Under 16" diameter
Rectangular	Under 3 square feet
NO SEALS	
Must be CW to open	
Damper blade must be in closed position	

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 per Damper</i>	EBD-301 (Concealed Ceiling Cup) EBD-VM (Hook & Loop Fastener)

SHAFT SIZE OPTIONS	
Standard ( <b>EBD-B</b> )	3/8" square or 1/2" round
Optional ( <b>EBD-BQ</b> )	1/4" square or 5/16" round

Quantity	Option	Notes
<b>PROJECT</b>		<b>LOCATION</b>
<b>CONTRACTOR</b>		<b>DESIGN SPECIFIER</b>



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

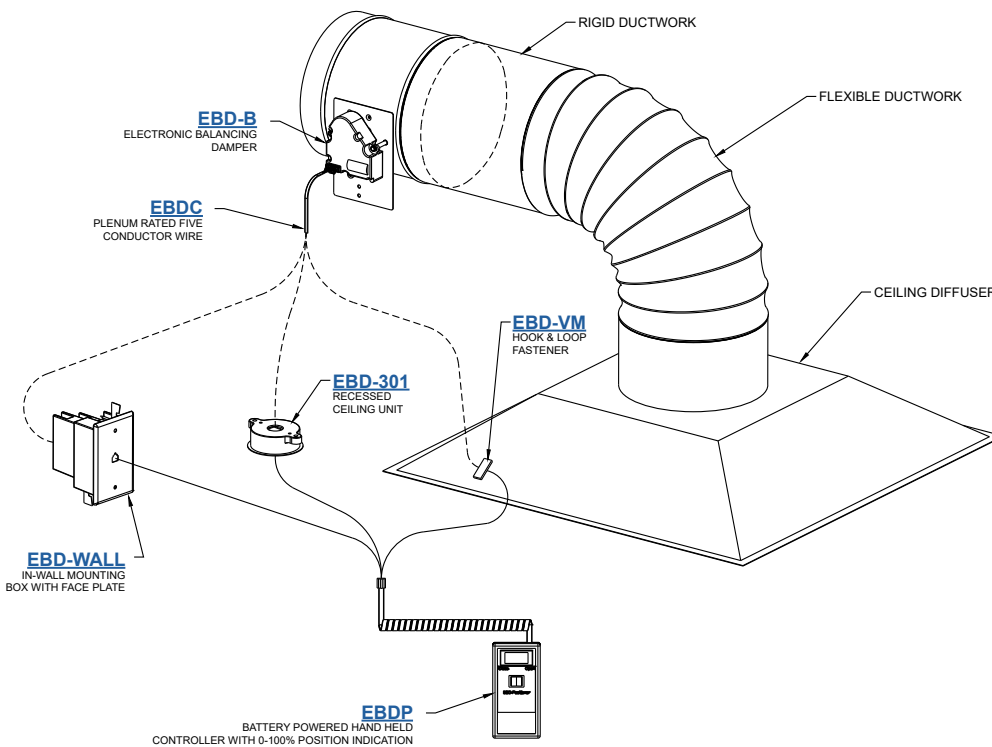
### Sequence of Operation:

The positioner is turned on by pressing the rocker switch. Once the unit is connected to a receptacle, the LED meter will show the blade position over a range of 0-100% open via a voltage signal that is proportional to the blade angle.

The position of the damper is adjusted by pressing the rocker switch on the controller, opening the damper by pressing the right side and closing the damper by pressing the left side. Releasing pressure on the rocker switch stops blade rotation.

When finished adjusting dampers at the worksite, the EBDP positioner will turn off automatically after 10 minutes of inactivity. Positioner should be returned to owner.

### Assembly Diagram:



### Notes:

1. Coordinate exact location of EBD and Wall units with architect prior to installation.
2. A 9V battery powers the handheld controller. Replace the battery in the controller with the same type and quantity of batteries. Replacement batteries are available from Young Regulator Co. and many retail outlets. Dispose of used batteries in accordance with local regulatory and environmental codes.
3. The handheld position controller shall be turned on by pressing the rocker switch.
4. Once powered on, plug the coil cord into the wall unit and the LED screen will show blade position.
5. To change the blade position, press the rocker switch left to close and right to open. Releasing the switch will stop the blade from moving.
6. EBDC cables shall not be longer than 1,000 ft. 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.
7. One EBDP handheld position controller shall be required per job.

### Wall Port Options:

