

Model RT-100 Installation & Operation Instructions

Roto-Twist® cable actuated damper drive system.

Receipt Inspection

Check material received against packing list. Claims resulting from factory errors must be made within 2 weeks after receipt of goods.

Installation

1. Rectangular units are shipped in 2 pieces. To assemble: Slip the male square end of the rotary cable assembly into the female square opening in the damper pivot while snapping the angle bracket on to the damper frame using a heel to toe motion. Be sure to align the cable straight into the pivot hole. Rotate the cable using a ¼" hex nut driver or the MAT square nut driver to make sure the damper opens and closes fully.
2. Secure the damper in position in the duct. Screw or rivet through the channel frame or end plates as required. Preferred installation method is via #10 speed screws. Do not rack or distort the damper. Damper is ¼" undersized from nominal dimensions. At normal branch duct velocities damper may be installed in any plane or aspect ratio with operator pivot on any side. Position damper to allow best cable run, avoiding tight turns, while keeping adjustment end in its preferred accessible position. Keep adjustment end of cable within 5" of accessible opening if possible. Alternately cables may be left hanging out of ceiling upon installation of air outlet and slipped back in after balancing.
3. Secure the adjustment end of the cable using the nylon clamp. The clamp may be positioned anywhere along cable length to keep adjustment end in accessible position. Do not over tighten. Cable should rotate easily inside the clamp.

Operation

Dampers may be adjusted by applying a MAT Square Nut driver or a ¼" hex socket to the male square adjustment end of the cable. Once set, dampers will hold their settings at all velocities up through the design limits. MAT Square Nut Drivers with 5" shaft length may be purchased from the manufacturer. Optional screwdriver tip units are adjusted with a thin bladed screwdriver.

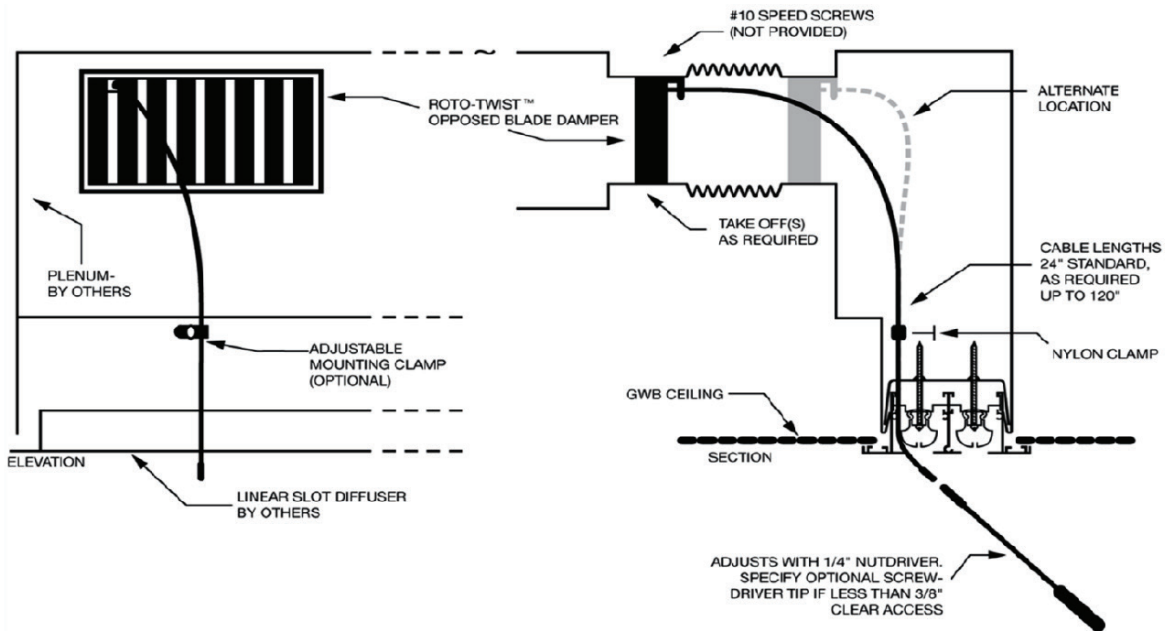
Maintenance

Properly installed Roto-Twist® dampers require no maintenance of any kind.

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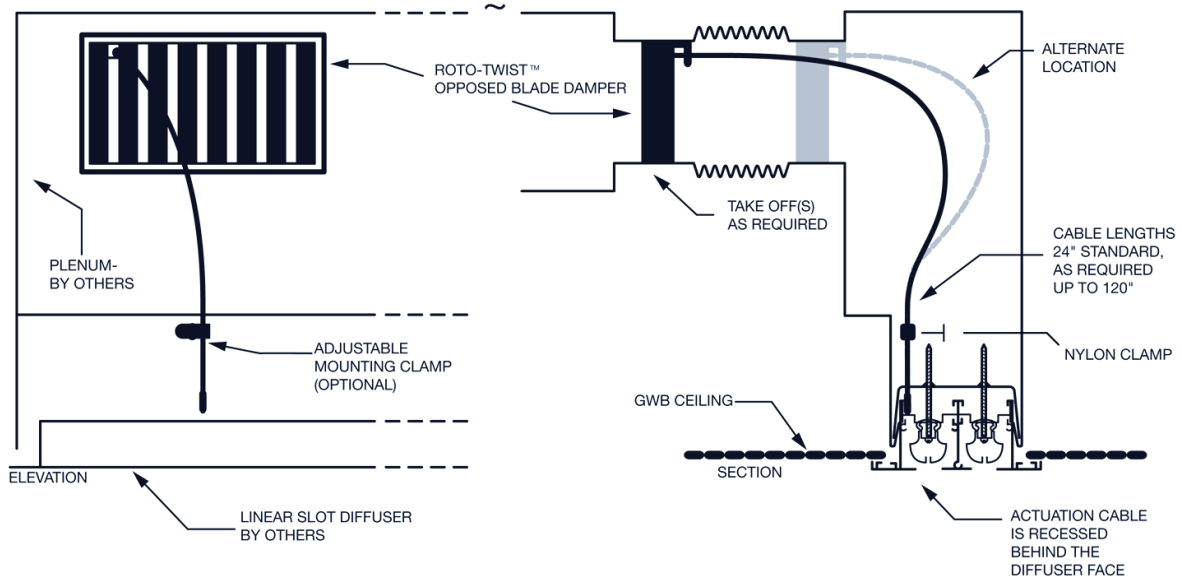
Roto-Twist® cable actuated damper drive system.

RT-100 Series As Installed Before Balancing



SK-150-2.3 NTS SERIES III

RT-100 Series As Installed After Balancing



SK-150-2.3 NTS SERIES III