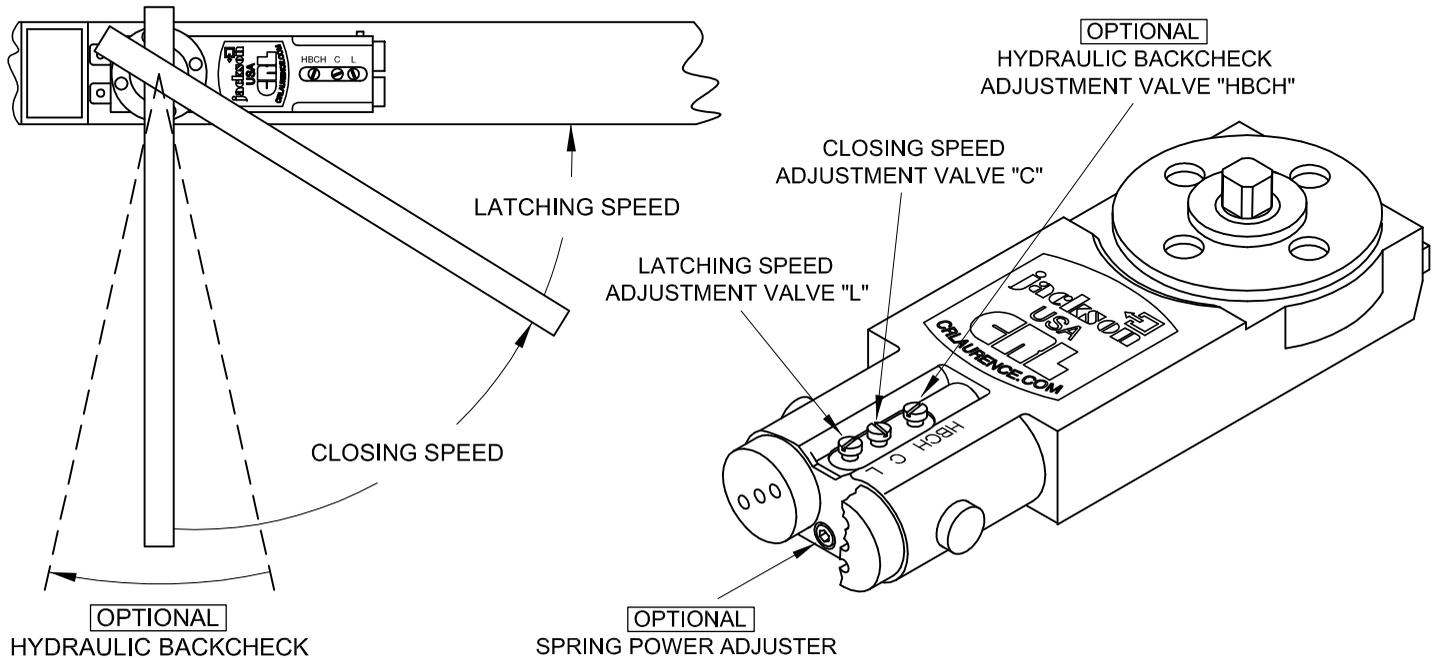


# ADJUSTMENT INSTRUCTIONS FOR OVERHEAD CONCEALED DOOR CLOSERS



**IMPORTANT: PLEASE READ BEFORE PROCEEDING.** Observe all safety warnings. Always wear proper eye protection and appropriate safety equipment. **WARNING:** Always place a safety block between the door and the jamb to prevent the door from closing while making adjustments. **WARNING:** The closer contains springs compressed under high load and has no user serviceable internal components. Do not attempt to remove the covers or otherwise open the closer in any manner.

This closer has been fully tested and adjusted at the factory. The closing and latching speeds have been pre-set to achieve a 6 to 8 second closing cycle. The optional hydraulic backcheck has not been factory pre-set. After installation, cycle the door 10 or more times from the maximum open position to the full closed position prior to making final adjustments.

To increase either the closing or latching speeds, turn the appropriate adjustment valve counter-clockwise. To decrease either the closing or latching speeds, turn the appropriate adjustment valve clockwise.

Set the latching speed (Valve L) first, then set the closing speed (Valve C). Check and readjust if necessary.

**IMPORTANT:** Do not turn the adjustment valves counter-clockwise any more than necessary to achieve the proper adjustment. Excessive counter-clockwise adjustment of the valves may result in the release of fluid, rendering the closer inoperative. MAXIMUM counter-clockwise opening of the adjustment valves is 3 revolutions from full closed.

**OPTIONAL:** Hydraulic Backcheck - If so equipped, turn the adjustment valve clockwise to increase backcheck resistance which dampens and slows the momentum of the door when opened with excessive force. Decrease resistance by turning the adjustment valve counter-clockwise. The adjustment valve must not be adjusted so that the backcheck function is used as a rigid backstop. Using the backcheck as a rigid backstop may cause damage to the closer or door.

**OPTIONAL:** Adjustable Spring Power - If so equipped, the adjustable spring power has been factory pre-set to size two. To increase the spring power, turn the adjuster clockwise. To decrease, turn the adjuster counter-clockwise. Typical door opening force adjusts at the rate of approximately 1 pound force (4.5N) for each 3 to 4 revolutions of the adjuster.

**IMPORTANT:** Do not attempt to adjust the spring power with the door open beyond 20° from closed.

**IMPORTANT:** Neither the standard internal backstop nor the optional backcheck are to be used as the primary door stop. An auxiliary floor or overhead door stop is always recommended to prevent structural interference and possible door and closer damage.