



# Series 500 Overhead Concealed Door Closer with Adjustable Spring Power

## Part 1 GENERAL

### 1.1 SECTION INCLUDES

- A. Series 500 Door Closer, Grade 1 (Handicapped approved and UL listed)
- B. Features:
  - 1. ADA (Handicap) multi-sized closer with Adjustable Spring Power for a range of sizes from 5 lbs to Medium Spring Tension, fully adjustable after installation
  - 2. Built-in positive back stop and hold-open positions available
  - 3. Suitable for both Center Hung (Double or Single Acting) and Offset Doors
  - 4. Stable hydraulic fluid for any climate operations. Using fire resistant fluid with an operating range from -43°F (-42°C) to 140°F (60C)
  - 5. Fits in an aluminum header or transom bar as small as 1-3/4" x 4"
  - 6. Based on mounting preference, opening range, degree of backstop from 90° to 105°
  - 7. This unit can be mounted on Center Hung Doors and Offset Hung Doors:

**Center Hung Doors:** Complete units for aluminum doors and frames are furnished with top arm assembly (side or end) and adjustable dual purpose 3010-DP bottom pivot set for floor or threshold mounting and 3010-FSP anchor set with all fasteners.

**Offset Hung Doors:** Complete units for offset pivoted or butt hinged aluminum doors and frames are furnished with a "JO" or "VO" type offset arm and 3010-FSP anchor set with all fasteners.

### 1.2 REFERENCES

- A. ANSI A117.1 – Barrier Free Operation to comply with Federal Accessibility Standards (**ADA**)
- B. ANSI A156.4 – Series 500 is certified to Grade #1
- C. UL 10B and UL 10C compliant for positive pressure
- D. Certified to conform to UBC 7-2 (1997, UL228)
- E. Underwriters Laboratories (UL/C) listed – Fire Resistance Directory

### 1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations
  - 2. Storage and handling requirements and recommendations
  - 3. Installation methods

- B. Shop Drawings: Manufacturer's approved drawings detail the application
- C. Section Samples: Samples are available depicting the finish types
- D. Verification Samples: For the finish product specified, two full size samples representing actual product, color and size

**1.4 QUALITY ASSURANCE**

Manufacturer Qualifications: Model 44CI will be provided by a single manufacturer with over 30 years of experience in door closers

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Store products in manufacturer's unopened packing until ready for installation
- B. No harsh chemicals are used during this process, so no special handling or disposal is required

**1.6 PROJECT CONDITIONS**

Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by the manufacturer for optimum results. Do not install this product if environmental conditions are outside the manufacturer's limits.

1. All weather hydraulic fluid is fire resistant and allows the Series 500 to operate in a wide range of temperatures from -43°F (-42°C) to 140°F (60°C)
2. The body of the closer is constructed of Cast Iron with a double heat treated steel pinion

**1.7 WARRANTY**

After project completion, the owner or owner's representative will receive a copy of the Manufacturer's Limited Warranty against manufacturing defects. The duration of this warranty is 10 years.

**Part 2 PRODUCTS**

**2.1 MANUFACTURER**

International Door Closers Inc., (Manufacturer's Rep)

1140 North Kraemer Pl, Anaheim, CA 92806 (800) 544-4422  
 1920 Air Lane Dr, Nashville, TN 37120 (800) 225-6737

**2.2 DOOR CLOSER**

Series 500 – Adjustable Spring Power/Overhead Concealed

<u>Model #</u>	<u>TYPE</u>
510	105° Back Stop with Hold-Open
511	105° Back Stop no Hold-Open
512	90° Back Stop with Hold-Open
513	90° Back Stop no Hold-Open

## **Part 3 EXECUTIONS**

### **3.1 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared
- B. If the substrate is the responsibility of another installer, notify the Architect of any unsatisfactory preparation before proceeding

### **3.2 PREPARATION**

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best results for the substrate under the project conditions

### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer's instructions

### **3.4 PROTECTION**

- A. Protect installed products until completion of project
- B. Repair or replace all damaged products before substantial completion

**END OF SECTION**