ORDER OF ASSEMBLY AND INSTALLATION

PARTS IDENTIFICATION............................................................................................................................................ 03 - 04
DOOR PREPARATION ................................................................................................................................................ 05
LAYOUT SELECTION .................................................................................................................................................. 06 - 08
DOOR HARDWARE INSTALLATION .......................................................................................................................... 09 - 11
  INSTALLATION OF RIM KEYED CYLINDER............................................................................................................ 09
  INSTALLATION OF EXTERIOR TRIM (OPTIONAL).................................................................................................. 10
  INSTALLATION OF 2095E ELECTRIC RIM LATCH ............................................................................................... 11
FRAME PREPARATION AND STRIKE INSTALLATION ............................................................................................... 12 - 13
  ATTACH THE STRIKE .............................................................................................................................................. 13
CONNECTING THE ELECTRICAL/ELECTRICAL SCHEMATICS ............................................................................. 14 - 16
  PREPARE NON-ACTIVE DOOR JAMB SIDE ........................................................................................................ 17
CONNECTING ELECTRICAL COMPONENTS .......................................................................................................... 18 - 19
  CONNECTING THE WIRES ..................................................................................................................................... 18
  ARMORED DOOR LOOP INSTALLATION ............................................................................................................. 19
PACKAGE PARTS AVAILABLE .................................................................................................................................. 20

TOOLS REQUIRED

| Taps: 1/4-20, 10-32, 8-32 | 3/4" Masking Tape |
| Tape Measure | Center Punch |
| Saw Horses | Flat Metal File |
| Cordless Drill | Round Metal File |
| Phillips Head Screwdriver | Jigsaw with Metal Cutting Blade |
| | Straight Edge |

NOTE: Any modifications, other than those specified in this document, could result in this product's failure to meet UL safety ratings and void the manufacturer's warranties.

The rapidly changing technology within the architectural aluminum products industry demands that C.R. Laurence/U.S. Aluminum reserve the right to revise, discontinue, or change any product line, specification, or electronic media without prior written notice.

NOTE: Dimensions in parentheses ( ) are millimeters unless otherwise noted.
## PARTS IDENTIFICATION

<table>
<thead>
<tr>
<th>CALL OUT</th>
<th>QTY.</th>
<th>FASTENER</th>
<th>FASTENER DESCRIPTION</th>
<th>PART</th>
<th>PART NUMBER AND DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2</td>
<td>A</td>
<td>1/4&quot;-20 x 1/4&quot; Shoulder Stud Screws</td>
<td>30622 Active Head Assembly 30627 Active Head Cover Package</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>1</td>
<td>A</td>
<td>1/4&quot;-20 x 1/4&quot; Shoulder Stud Screw</td>
<td>301266 Base End Cap Package</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>B</td>
<td>1/4&quot;-20 x 5/16&quot; Set Screw</td>
<td>30622 Active Head Assembly 30627 Active Head Cover Package</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>1</td>
<td>B</td>
<td>1/4&quot;-20 x 5/16&quot; Set Screw</td>
<td>301266 Base End Cap Package</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>C</td>
<td>#10-32 x 5/8&quot; Oval Head Machine Screw</td>
<td>302436 &quot;C&quot; Type Surface Mounted Strike</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>D</td>
<td>#1/4&quot;-20 x 1-3/4&quot; Breakaway Screws</td>
<td>DL911 Rim Keyed Cylinder</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>2</td>
<td>E</td>
<td>#10-32 x 2-1/8&quot; FHMS</td>
<td>9500LV01 or 9500LV02 Optional Exterior Trim with Lever Assembly</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>8</td>
<td>F</td>
<td>#8 x 1-1/4&quot; Flat Head Sheet Metal Screw</td>
<td>Optional MLDL101 Armored Door Loop Kit</td>
<td></td>
</tr>
</tbody>
</table>
## PARTS IDENTIFICATION

<table>
<thead>
<tr>
<th>CALL OUT</th>
<th>PART</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td><img src="image" alt="Optional Rim Cylinder" /></td>
<td>DL911</td>
<td>Optional Rim Cylinder</td>
</tr>
<tr>
<td>H</td>
<td><img src="image" alt="&quot;C&quot; Type Surface Mounted Strike" /></td>
<td>302436</td>
<td>&quot;C&quot; Type Surface Mounted Strike</td>
</tr>
<tr>
<td>I</td>
<td><img src="image" alt="Programmable Digital Keypad" /></td>
<td>MLD83N</td>
<td>Programmable Digital Keypad</td>
</tr>
<tr>
<td>J</td>
<td><img src="image" alt="Wood Door Mounting Kit" /></td>
<td>302521</td>
<td>Wood Door Mounting Kit</td>
</tr>
<tr>
<td>K</td>
<td><img src="image" alt="Armored Door Loop" /></td>
<td>MLDL101</td>
<td>Armored Door Loop</td>
</tr>
<tr>
<td>L</td>
<td><img src="image" alt="Power Supply" /></td>
<td>302616 301420</td>
<td>Power Supply See Pages 14-16 for correct Power Supply</td>
</tr>
<tr>
<td>M</td>
<td><img src="image" alt="24VDC Power Supply Converter Module" /></td>
<td>301406PSC</td>
<td>24VDC Power Supply Converter Module</td>
</tr>
<tr>
<td>N</td>
<td><img src="image" alt="Signal Switch Kit" /></td>
<td>302989</td>
<td>Signal Switch Kit</td>
</tr>
</tbody>
</table>
DOOR PREPARATION

REMOVE DOOR AND PREPARE PER TEMPLATES

1. Place the door horizontally on the stands interior side up.

2. Mark the stile centerlines 1-1/8" (28.6) from the inside edge of the stile. (Fig. 1)

3. Mark the corresponding layouts on to the stile using the vertical centerlines at the specified height. (Fig. 2)
DOOR PREPARATION – LAYOUT SELECTION

2095E EXIT DEVICE INSTALLATION - ACTIVE STILE

INTERIOR VIEW
ACTIVE STILE

EXTERIOR VIEW
ACTIVE STILE

Use Template from Box

FIG. 3

FIG. 4

NOT TO SCALE
2095E EXIT DEVICE INSTALLATION - INACTIVE STILE

DOOR PREPARATION – LAYOUT SELECTION

**INTERIOR VIEW**

**INACTIVE STILE**

- **5/16" Dia. Hole**
  (3) Places

- **Drill and Tap**
  for a 1/4"-20 Machine Screw

- **1/8" Dia. Pilot Hole**
  (4) Places

- **38 5/32" (969) To Bottom of Jamb From This Line**

**Use Template from Box**

**FIG. 5**

CRL JACKSON PANIC/EXIT DEVICES - 2095E ELECTRIC RIM LATCH

[Diagram showing interior view with labeled dimensions and instructions for installation]
DOOR PREPARATION – LAYOUT SELECTION

2095E EXIT DEVICE INSTALLATION WITH EXTERIOR LEVER TRIM.

**FIG. 6**

**FIG. 7**

**INTERIOR VIEW**

**ACTIVE STILE**

**EXTERIOR VIEW**

**ACTIVE STILE**

- **Drill and Counter Sink for a 10-24 FHMS (2) Places**
- **Drill and Tap for a 1/4"-20 Machine Screw (2) Places**
- **Drill a 19/32" Dia. Hole**
- **38-5/32" (969) To Bottom of Jamb From This Line**
- **Use Template from Box**

- **Drill and Tap for a 10-24 FHMS (2) Places**
- **38-5/32" (969) To Bottom of Jamb From This Line**
- **Use Template from Box**
DOOR HARDWARE INSTALLATION

INSTALLATION OF RIM KEYED CYLINDER

1. Insert the rim keyed cylinder assembly into the active stile and fasten with (2) 1/4"-20 x 1-3/4" breakaway screws (Fig. 8).

2. Attach the (2) 1/4"-20 x 1/4" shoulder stud screws to the active stile. (Fig. 8)

3. Attach (1) 1/4"-20 x 1/4" shoulder stud screw on the inactive stile. (Fig. 8)
DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALLATION OF OPTIONAL EXTERIOR LEVER TRIM

**NOTE:** Exterior trim must be installed before attaching exit device.
Attach the exterior trim to the active stile with (2) #10 x 2-1/8" FHMS.

**NOTE:** Exterior Trim requires use of standard 1" Mortise Cylinder with AR-MS Type Cam.

9500LV02 Flat Handle Lever Trim
9500LV01 Round Handle Lever Trim
DOOR HARDWARE INSTALLATION (CONTINUED)
INSTALL 2095E ELECTRIC RIM LATCH

1. Insert the wires through the 5/16" Dia. hole on the inactive stile.

2. Install the exit device on the door stiles as you feed the wires through the upper 5/16" hole. Tighten the (1) 1/4" x 5/16" set screw and (2) 1/4" x 5/16" set screw on each side of the door stiles. (Fig. 10)

3. Pull the wires back through the lower 5/16" Dia. hole located below the exit device. (Fig. 11)
FRAME PREPARATION

RE-ATTACH DOOR TO FRAME

1. Make sure that the panic exit device is in the dogged position.

2. With the door in the closed position, mark the center line location of the Panic Device on the Strike Jamb.

3. Position the Strike over the center line and mark the screw hole locations. (Fig. 12)
ATTACH THE STRIKE

Drill and tap for (2) 10-32 x 5/8" OHMS on the marks made in step 3 of the frame preparation on page 12. Attach the strike to the door jamb using (2) 10-32 x 5/8" OHMS. (Fig. 13)
CONNECTING THE ELECTRICAL

POWER SUPPLY NO. 302616/1406

ELECTRICAL SCHEMATIC

NOTE: Used with all Jackson 20E Series Electrified Solenoid Latch Retraction Panic Devices Manufactured prior to August 15, 2016.

For use with Motorized Latch Retraction manufactured after August 15, 2016, see page 15.

For Power Supply No. 301420 used with Motorized Latch Retraction, See page 16.

When the exit device works properly, connect the wires to the power supply as shown in Figure 17, once the wires are properly attached to the power supply you need to feed the proper wires through the 5/16” Dia. hole prepped on the non-active door jamb as shown on Figure 17 on Page 17.

NOTES
1.) WHEN CONTACTS OF TIME CLOCK OR OVERRIDE SWITCH CLOSE.
    EXIT DEVICE LATCH BOLTS WILL CLOSE.
2.)  DENOTES A FIELD WIRE CONNECTION.
3.) RECOMMENDED WIRE Ga FROM POWER SUPPLY TO PANIC:
    16 Ga UP TO 40'
    14 Ga UP TO 60'
    12 Ga UP TO 100'

FIG. 14
CRL JACKSON PANIC/EXIT DEVICES - 2095E ELECTRIC RIM LATCH

CONNECTING THE ELECTRICAL (CONTINUED)

POWER SUPPLY NO. 302616/1406
ELECTRICAL SCHEMATIC

The 1406/1426-PSM-24VDC Power Supply Module converts device output voltage from Jackson 302616, ACSI Series 1406 supplies to a filtered, regulated 24VDC output for use with Jackson Series 20E Motor Drive Electric Latch Retraction Exit Devices. Up to two devices can be connected to the module's regulated output.

Installing the Module
The power supply module can simply be placed inside the enclosure on the bottom side at the locations shown in Figures 15. Vent holes must face upward, as indicated in Figure 15, to allow for maximum heat dissipation.

NOTE: Used with Jackson 20E Series Electrified Motorized Latch Retraction Panic Devices Manufactured after August 15, 2016, only when powered by Power Supply model No. 302616/1406

![Wire Diagram](image-url)

**NOTE: Device output contains short circuit, thermal, and current limiting protection**

**MODULE DIMENSIONS:**
4.55"L x 3.29"W x 1.25"H

**DEVICE OUTPUT VOLTAGE:**
25.5VDC (UNLOADED)
POWER SUPPLY NO. 301420

ELECTRICAL SCHEMATIC


SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>120VAC/240VAC, 50/60Hz</td>
</tr>
<tr>
<td>AC Current</td>
<td>900mA/120VAC, 600mA/240VAC</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>24VDC Filtered, Regulated</td>
</tr>
<tr>
<td>Output Current</td>
<td>2.0A</td>
</tr>
<tr>
<td>Output Power</td>
<td>48W</td>
</tr>
<tr>
<td>Protection</td>
<td>Overload, Over Voltage, Short Circuit</td>
</tr>
</tbody>
</table>

NOTE:

1.) The sum of all outputs cannot exceed 2 AMPS.
2.) When contacts of time clock or override switch close.
3.) Denotes a Field Wire Connection.
4.) Recommended Wire Ga. from Power Supply to Panic:

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>Max. Length 2-Cond. Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>70 FEET</td>
</tr>
<tr>
<td>20</td>
<td>110 FEET</td>
</tr>
<tr>
<td>18</td>
<td>180 FEET</td>
</tr>
<tr>
<td>15</td>
<td>280 FEET</td>
</tr>
<tr>
<td>14</td>
<td>450 FEET</td>
</tr>
<tr>
<td>12</td>
<td>720 FEET</td>
</tr>
</tbody>
</table>
PREPARE THE NON-ACTIVE DOOR JAMB SIDE

Drill a 5/16" Dia. hole and Drill (4) 1/8" Dia. pilot holes. (Fig. 17)
CONNECTING ELECTRICAL COMPONENTS

CONNECTING THE WIRES

After preparing non-active door jamb. (Fig.17) Route the wires through the hole on the door jamb. (Fig. 18)
Next feed the wires through the Armored Door Loop, and secure the Armored Door Loop to the door jamb using (4) #8 x 1-1/4" FHSMS. (Fig. 19)
Once you have secured the Armored Door Loop, connect the wires from the Armored Door Loop to the exit device wires using Twist-On Wire connectors. (Fig.19)
CONNECTING ELECTRICAL COMPONENTS (CONTINUED)

ARMORED DOOR LOOP INSTALLATION

After the wires are connected, slip the remaining slacking wires and twist-on connectors back into the door stile and into the pocket of the door loop. (Fig 20) Secure the door loop to the door stile using (4) #8 x 1-1/4" FHSMS. (Fig. 21)
## PACKAGED PARTS AVAILABLE

### MECHANICAL ONLY

<table>
<thead>
<tr>
<th>Assembly No.</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>302622</td>
<td>Active Head Assembly-Complete</td>
</tr>
<tr>
<td>2</td>
<td>302627</td>
<td>Active Head Cover Package</td>
</tr>
<tr>
<td>3</td>
<td>302635</td>
<td>Active Head Base Plate Assembly</td>
</tr>
<tr>
<td>4</td>
<td>302610</td>
<td>Head Assembly Hardware Package</td>
</tr>
<tr>
<td>5</td>
<td>301064</td>
<td>Control Arm Hardware Package</td>
</tr>
<tr>
<td>6</td>
<td>302480PKG</td>
<td>Push-Pad Package</td>
</tr>
<tr>
<td>7</td>
<td>301063</td>
<td>Base Cover Plate Package</td>
</tr>
<tr>
<td>8</td>
<td>301265</td>
<td>Push-Pad End Cap Package</td>
</tr>
<tr>
<td>9</td>
<td>301266</td>
<td>Base End Cap Package</td>
</tr>
<tr>
<td>17</td>
<td>302436628</td>
<td>&quot;C&quot; Type-Surface Mounted Strike</td>
</tr>
<tr>
<td>18</td>
<td>302501</td>
<td>&quot;S&quot; Type-Surface Mounted Strike</td>
</tr>
<tr>
<td>20</td>
<td>30SBPKG</td>
<td>Mounting Shoulder Bolt and Set Screw Package (12 Pkg.)</td>
</tr>
</tbody>
</table>