Installation Instructions
CR22/CR77/CR98

Cal Royal Electric Exit Trim modified by Command Access Technologies

**STEP 1:** The door must be machined with a 3/8" wire raceway, Exit Trim & prepped for a energy transfer hinge. Make sure the pocket is free of debris.

**STEP 2:** Run the wires from the ETH hinge through the 3/8" raceway starting at the ETH hinge & exiting into the pocket.

**STEP 3:** Screw the ETH hinge to the door. At this time DO NOT connect the hinge wires on the jamb side to the wires coming from the power supply.

**STEP 4:** Connect the wires exiting the pocket to the Bridge Rectifier (included).

**STEP 5:** Connect the Bridge Rectifier to the plug exiting the Electric Exit Trim.

**STEP 6:** Carefully slip the connected Electric Exit Trim into the pocket paying close attention not to pinch any wires.

**STEP 7:** Mount the Electric Exit Trim per manufacturer’s instructions.

**STEP 8:** Connect the wires from the power supply at the ETH hinge on the jamb side. Connect the hinge to the jamb.

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**EU** (Fail Secure) When power is applied, the outside trim will unlock. When power is removed, the outside trim is locked.

**EL** (Fail Safe) When power is applied, the outside trim will lock. When power is removed, the outside trim is unlocked.

**REE** (Request to Enter Switch) Monitors the outside handle.

**LEGEND OF TERMS**

**ELECTRICAL SPECIFICATIONS**

**SOLENIOIDS:**

<table>
<thead>
<tr>
<th>VOLTS</th>
<th>CURRENT</th>
<th>COIL RESISTANCE</th>
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<tbody>
<tr>
<td>24VAC/DC</td>
<td>150mA</td>
<td>159 Ohms +/- 10%</td>
</tr>
<tr>
<td>12VAC/DC</td>
<td>250mA</td>
<td>49 Ohms +/- 10%</td>
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**SWITCHES:** 25A 175VAC/DC

REE: Green - Common (C)
Blue - Normally Open (NO)
Gray - Normally Closed (NC)

**SEE BACK FOR TEMPLATE**