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**FOR SPECIAL LOCKING ARRANGEMENT:**

THIS PRODUCT MUST BE CONNECTED INTO A FIRE ALARM SYSTEM PER NFPA CODE OR OTHER REGULATIONS SO THAT, IN THE EVENT OF FIRE, THE TIME DELAY WILL BE BYPASSED. CONTACT YOUR LOCAL CODE AUTHORITY TO VERIFY COMPLIANCE WITH FIRE AND BUILDING CODES. THE DELAYED EGRESS DEVICE SHOULD BE ROUTINELY CHECKED FOR PROPER OPERATION AND COMPLIANCE WITH FIRE AND BUILDING CODES.

Should you have a Question/Problem with your Detex device please call Detex Technical Support from the job site at 1-800-729-3839 and choose option 2 on our menu. Please do not return the product to the distributor.

For WARRANTY information, scan code below or go to www.detex.com/warranty

For device installation videos, scan code below or go to www.detex.com/videos

Owner's Copy
### PARTS BREAKDOWN

<table>
<thead>
<tr>
<th>Item</th>
<th>Order Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>105500-17</td>
<td>Centercase/Pushpad Subassembly, 10 series, 36&quot;, 630 finish, CD</td>
</tr>
<tr>
<td>1</td>
<td>105500-111</td>
<td>Centercase/Pushpad SubAssembly, 10 series, 48&quot;, 630 finish, CD</td>
</tr>
<tr>
<td>1</td>
<td>105500-30</td>
<td>Centercase/Pushpad SubAssembly, RHR 20 series, 36&quot;, 630 finish, CD</td>
</tr>
<tr>
<td>1</td>
<td>105500-34</td>
<td>Centercase/Pushpad SubAssembly, RHR 20 series, 48&quot;, 630 finish, CD</td>
</tr>
<tr>
<td>2</td>
<td>102095-9</td>
<td>EC1 Endcap, 630 finish (drilled for Flex Conduit)</td>
</tr>
<tr>
<td>3</td>
<td>104686-1</td>
<td>EC2 Endcap, Aluminum, Aluminum painted (drilled for Flex Conduit)</td>
</tr>
<tr>
<td>3</td>
<td>104317-9</td>
<td>EC2 Endcap, Stainless Steel, 630 finish (drilled for Flex Conduit)</td>
</tr>
<tr>
<td>4</td>
<td>ECL-395</td>
<td>Door Sign, 15 second delayed egress</td>
</tr>
<tr>
<td>4</td>
<td>ECL-395-1</td>
<td>Door Sign, 30 second delayed egress</td>
</tr>
<tr>
<td>5</td>
<td>100783</td>
<td>Hex Nut (for cylinder installation)</td>
</tr>
<tr>
<td>6</td>
<td>PP-5567</td>
<td>9V Battery</td>
</tr>
<tr>
<td></td>
<td>104494-2</td>
<td>Advantex EE dogging assembly, Rim, 15/15</td>
</tr>
<tr>
<td></td>
<td>104494-8</td>
<td>Advantex EE dogging assembly, Rim, 1/15 SA</td>
</tr>
<tr>
<td></td>
<td>105035-2</td>
<td>Advantex EE dogging assembly, SVR, CVR, 15/15</td>
</tr>
<tr>
<td></td>
<td>105035-7</td>
<td>Advantex EE dogging assembly, SVR, CVR, 15/15 SA</td>
</tr>
<tr>
<td></td>
<td>105035-8</td>
<td>Advantex EE dogging assembly, SVR, 1/15 SA</td>
</tr>
<tr>
<td></td>
<td>105034-2</td>
<td>Advantex EE dogging assembly, Mortise, 15/15</td>
</tr>
<tr>
<td></td>
<td>105034-7</td>
<td>Advantex EE dogging assembly, Mortise, 15/15 SA</td>
</tr>
<tr>
<td>8</td>
<td>90-800</td>
<td>90-800 Power Supply</td>
</tr>
<tr>
<td>9</td>
<td>103306-2</td>
<td>Raceway cable, 3-0 (Mortise device only)</td>
</tr>
<tr>
<td>9</td>
<td>103306-3</td>
<td>Raceway cable, 4-0 (Mortise device only)</td>
</tr>
</tbody>
</table>

(Mortise devices only)
MORTISE CYLINDER INSTALLATION

PRECAUTIONARY NOTES:
1. Be careful when installing fillerplate assembly not to damage modular cable.
2. See "EE ELECTRICAL OPTIONS" before reinstalling filler plate.

Remove endcap, endcap bracket & fillerplate subassembly.
Disconnect the following:
- Cable assembly (view A),
- 12 pin connector (view B),
- Magnet connection (view C),
- Mortise device plug (view C if applicable),
- Surface Vertical Rod (SVR) device plug (view D if applicable)
- Battery connection

(note: board layout may differ slightly from layout shown)

2) INSTALLING MORTISE CYLINDER
Install mortise cylinder onto new fillerplate subassembly

NOTE:
1) Move placement of spacers to match length of cylinder used to allow smooth rotation of cam.
2) All cylinder spacers must be used, either on top or bottom

CAUTION:
Tighten with hand tools only. Do not overtighten

See View A, B, C & D

Install mortise cylinder with hex nut provided
Dogging lever should be in "ON" (CCW) position before sliding back into extrusion

Mortise Cylinder with standard Yale cam required

1) Cylinder nut socket p/n 103779 (sold separately)

RE-INSTALL FILLERPLATE

Re-connect in the following order:
1) Cable assembly (view A),
2) Battery,
3) 12 pin connector (view B),
4) 2 pin connector (view C).
5) Mortise plug (view C) or SVR plug (view D) if applicable.

EE Cable/Wire connections IMPORTANT!
Refer to pages 4 & 5 for EE wiring instruction
STEPS 1 THRU 5 BELOW FOR MORTISE DEVICE ONLY

1 Use backplate for marking & drilling cable hole
Mark and drill 1/2" dia hole thru device side of door

2 Route modular cable thru door (Cable packaged with Mortise Lock)
Route cable thru mortise lock cutout
Route cable thru drilled hole

3 Plug modular cable to mortise lock
CAUTION:
Be careful when feeding lock and cable back into door
Plug cable to mortise lock
BEFORE installing lock to door

4 Install device

5 Plug cable to coupler
Repeat above procedures for other side

CHECKING FOR DEVICE CLEARANCE
(Cut-Off procedure if required)

1 Cut fillerplate and extrusion STRAIGHT & SQUARE to desired length and deburr
Secure with tape before cutting

2 For aluminum Advantex finish cutdown applications:
After cutting, the baseplate extrusion can be reversed to place the cut end inside the head cover.
To do so, loosen the setscrew inside the aluminum baseplate extrusion and slide extrusion out, reverse,
& slide back in. Tighten setscrew.

Slide endcap assembly onto extrusion

CAUTION:
Check for device and door frame clearance.
If no cut-off needed, proceed to the next page.

Minimum Fillerplate Length

<table>
<thead>
<tr>
<th>Type</th>
<th>Length (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE</td>
<td>9-3/8&quot;</td>
</tr>
</tbody>
</table>

www.detex.com/cutdown
REQUIRES DETEX POWER SUPPLY

REQUIRED WIRE SIZES:
STRANDED WIRE GAUGE: 18 AWG MIN
MAXIMUM LENGTH OF TWO CONDUCTOR CABLE: 40 FEET

90-800 Power Supply with Detex Delayed Egress device

Detex requires one fire alarm relay per power supply.
Closed Fire Alarm Loop (must be supplied for power output)

From (+) terminal to pin #1 on exit device
RED/BLK WIRES TO 24 VOLT

From (-) terminal to pin #2 on exit device

FACTORY INSTALLED JUMPER
To disable the low-battery indication, slide the Dis Lo Bat switch to ‘ON’

9V Alkaline Battery
Red wires to internal solenoid
DO NOT ADD POWER!
(PC BOARD ASSEMBLY INSIDE DELAYED EGRESS DEVICE)

NOTE: Surface Vertical Rod & Concealed Vertical Rod device will have battery plug-in & 6 pin plug in place of battery plug-in & 2 red wires

NOTE: Mortise devices ONLY (PWA p/n 104576) will have this additional plug-in connector
The key cylinder arming switch must be set to "OFF". To prevent the alarm from sounding during installation, attach battery AFTER main power is applied.

**Delayed Egress Device** requires a connection to the Fire Alarm System. The fire alarm connection needs to be made **externally** at the Power Supply. During a fire alarm condition the delayed egress will be deactivated.

**MAIN POWER CONNECTION: (1 AND 2)**
See Power Supply instructions

**DETEx REQUIREs USING THE FIRE ALARM CONNECTION IN THE POWER SUPPLY:**
CLOSED connection is provided from the fire alarm system when not in-alarm and OPEN when in-alarm. See power supply instructions for details.

**REMOTE BY-PASS: (5 AND 6)**
Connect normally open (N.O.) contact.
When the contact is closed momentarily, this will allow the door to open without the alarm sounding. The unit will re-arm in 15 seconds after the door is closed.

**BY-PASS RELAY: (7, 8 AND 9) DRY** contact output.
The BY-PASS relay is energized when the unit is disarmed by the KEY or REMOTE BY-PASS to indicate to a remote indicator that the door is not armed.

**ALARM RELAY: (10, 11 AND 12) DRY** contact output.
The ALARM relay is energized when the unit is sounding its alarm to indicate to a remote indicator that an unauthorized exit has been attempted.

**OUTSIDE KEY CONTROL:**
If the OKC option is used, the outside key bypasses and rearms the alarm.

**STATUS INDICATOR (SLIDE SWITCH):**
ON: Green LED blinks every three seconds when the unit is disarmed.
Red LED blinks every three seconds when the unit is armed.
OFF: No status indication

**REMOTE RESET (WHITE WIRES):**
Connect normally open (N.O.) contact.
When the contact is closed momentarily, this will allow alarm reset or the door to open without alarm sounding. The unit will arm in 15 seconds (default) after the door is closed.

**POWER REQUIREMENT:**
.5 AMPS @ 24 VDC

**9V Alkaline Battery connection**
(for alarm back up only)
Must have 24V for full functionality.
DETEX FILTERED AND REGULATED POWER SUPPLY WITH FIRE ALARM SYSTEM LOOP
24 VDC @ 1 Amp min.

DETEX REQUIRES THE POWER SUPPLY BE LOCATED WITHIN 40 FEET OF THE DEVICE

PROVIDE WIRING CONDUIT, CONNECTOR, ETC BETWEEN DETEX POWER SUPPLY AND FIRE ALARM CONTROL PANEL AS REQUIRED TO ALLOW THE FIRE ALARM SYSTEM TO OVERRIDE THE DETEX DELAYED EGRESS FEATURE DURING A FIRE ALARM

THE LOSS OF POWER OR OPEN FIRE ALARM CIRCUIT WILL ELIMINATE THE DELAY EGRESS OPERATIONS

REQUIREMENTS:
MIN. 22 GA STRANDED WIRE FOR SIGNALING
MIN. 18 GA STRANDED WIRE FOR POWER

REFER TO WIRING & FIRE ALARM DIAGRAMS FOR WIRING INSTRUCTIONS

Care and Maintenance:
The Detex Advantex® devices are designed to provide many years of maintenance free service under normal usage. Periodically inspect and lubricate the unit to extend its life.

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HARDWIRE TRANSFER OPTIONS

**Electric Hinge**
p/n: EWH8-626

**Power Transfer p/n:**
PT-5 or PT-56C (includes cable)

**Flex Conduit/End Cap Kit**
p/n: FC3EC1 (EC1 shown)
(specify finish when ordering)

**Power Transfer Endcap Prep**

**Electric Hinge Endcap Prep**

Wire chase through door

1/2" Hole through the inside door face

**Note:** For high traffic areas an electric through-wire hinge or power transfer is recommended.
DELAYED EGRESS OPERATIONS

ARMING AND AUTHORIZED EXIT
With door closed, insert key in the cylinder, turn CCW, then back to the home key position and remove it. LED glows green.
Authorized personnel can exit the door during the arming delay.
After a 15 second (default) arming period, alarm issues three quick beeps and LED goes off, indicating that the unit is armed.

DISARMING
Insert key, turn CW to a stop. Green LED will blink twice to indicate the unit is disarmed.

EXITING UNDER ALARM
To exit, push and maintain pressure on the pushpad.
After a one-second delay, (nuisance delay) LED flashes RED and alarm pulses on and off for 15 seconds.
After 15 seconds, alarm issues short and long pulses to indicate that one can exit by depressing the pushpad.
Alarm sounds continuously and LED is steady RED.
Turn key CW to stop alarm. In case of fire, the fire alarm over-rides the 15 second delay and the door opens without delay when the pushpad is pushed.

NUISANCE DELAY
When pushpad is depressed for less than 1 second, alarm will emit a single pulse but will not start delay function.

<table>
<thead>
<tr>
<th>LED COLOR</th>
<th>SIREN SOUNDS</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>GREEN</td>
<td></td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>THREE CHIRPS</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>Factory installed jumper removed from 3 &amp; 4 terminals</td>
</tr>
<tr>
<td>SLOW BLINKING</td>
<td>OFF</td>
<td>SLOW PULSE</td>
</tr>
<tr>
<td>FAST BLINKING</td>
<td>OFF</td>
<td>FAST PULSE</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>Delay to open expired, door has been opened</td>
</tr>
<tr>
<td>DOUBLE BLINK</td>
<td>OFF</td>
<td>DOUBLE CHIRP</td>
</tr>
<tr>
<td>BLINK</td>
<td>OFF</td>
<td>Armed - status ON</td>
</tr>
<tr>
<td>OFF</td>
<td>BLINK</td>
<td>Disarmed - status ON</td>
</tr>
</tbody>
</table>

BATTERY BACKUP FOR ALARM (configurable)
A 9-volt battery is included as a backup power source for the alarm siren if power is lost. To disable low battery indication, slide the Dis Lo Bat switch to ‘ON’. See page 9 for location.

LOW BATTERY INDICATION
If battery voltage is low (7 volts or less), unit remains armed but LED flashes RED and unit beeps twice every 45 seconds. Replace battery as soon as possible.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm sounds when power is applied:</td>
<td>Turn key clockwise to OFF position.</td>
</tr>
<tr>
<td>No green light when key is turned CCW:</td>
<td>Confirm strike is pushing in dead latch. Door must be closed.</td>
</tr>
<tr>
<td></td>
<td>Confirm 24VDC power on the delayed egress device main board terminals 1(+) &amp; 2(-).</td>
</tr>
<tr>
<td></td>
<td>Confirm closed fire loop connection on power supply.</td>
</tr>
<tr>
<td></td>
<td>Confirm cable is plugged in properly.</td>
</tr>
<tr>
<td></td>
<td>Confirm the mortise cylinder is functioning correctly.</td>
</tr>
<tr>
<td></td>
<td>For RIM: Confirm the 2 pin connector on the latch end coming from the pushpad switch is plugged in properly.</td>
</tr>
<tr>
<td></td>
<td>For MORTISE: Confirm the 2 pin connector from the pushpad is plugged into the fillerplate PWA properly.</td>
</tr>
<tr>
<td>No delayed egress:</td>
<td>Confirm closed fire loop connection on power supply.</td>
</tr>
<tr>
<td></td>
<td>Confirm the 2-pin header with the two red wires are plugged into the delayed egress main board.</td>
</tr>
<tr>
<td></td>
<td>Confirm 24VDC power on the delayed egress device main board terminals 1&amp;2.</td>
</tr>
<tr>
<td>Both red and green lights on:</td>
<td>Factory installed jumper removed from terminals 3 and 4.</td>
</tr>
<tr>
<td>Low battery signal-</td>
<td>Check battery. If no battery is needed, slide DisLoBat switch on delayed egress main board to ‘ON’. See electrical pages of instructions.</td>
</tr>
<tr>
<td>Two chirps every 45 seconds:</td>
<td></td>
</tr>
</tbody>
</table>