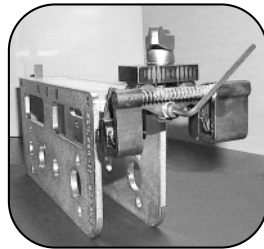


## WORK INSTRUCTION FOR MORTISE DRILLING JIG ASSEMBLY

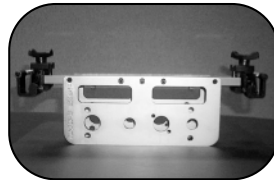
A. Take one black clamp and align its screw with the jig's central hole.



B. To tighten the clamp in place, use a  $\frac{5}{32}$ " Allen key.



C. Repeat steps A & B to install other clamp.



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### Technical Support Hotline

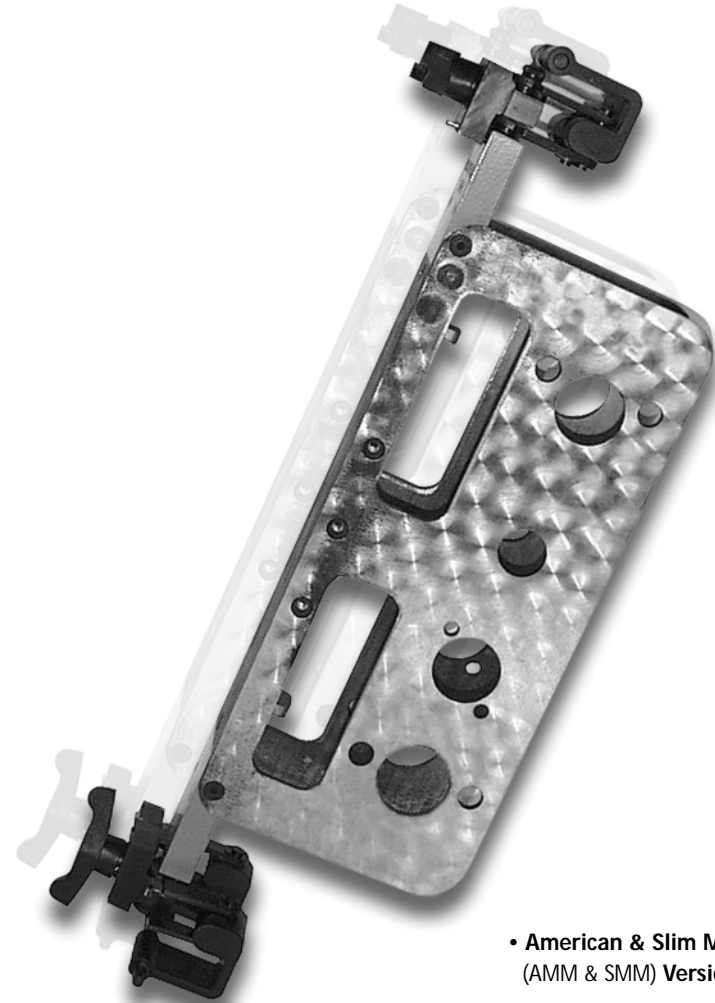
Call **800 906 4526** (US & Canada) or **(514) 340 9025** (International) from 8:30 AM to 9:00 PM Eastern Time, Monday to Friday (except holidays).

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## Installation Jig Door Preparation Instructions

Solitaire 710, 710-II and SMART Series



- **American & Slim Motorized Mortise (AMM & SMM) Version**
- **American & Slim Mortise (ASM & ESM) Version (710 Series only)**

**Please read and follow all instructions carefully.**

Since correct installation is critical, carefully check windows, frame, door, etc. to ensure that the recommended procedures will not cause any damage.

ILCO UNICAN is not responsible for any damage caused by installation.

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## Solitaire 710, 710-II and SMART Series Installation Jig Door Preparation Instructions

### Checklist

Each Jig Kit below includes:

- 1- Drill jig with attached trim plates
- 2- Two black clamps
- 3- Drilling Paper Template:

#### For Solitaire 710-II or SolitaireSMART Series with American Mortise (part # 138-509876)

- DT-509275 AMM, with 1 $\frac{1}{4}$ " (32 mm) mortise face plate
- DT-509274 AMM, with 1" (25.4 mm) mortise face plate

#### For Solitaire 710 Series with American Mortise (part # 138-508999)

- DT-509681 ASM, with 1 $\frac{1}{4}$ " (32 mm) mortise face plate
- DT-509682 ASM, with 1" (25.4 mm) mortise face plate

#### For Solitaire 710-II or SolitaireSMART Series with Slim Mortise (part # 138-509877)

- DT-509273 SMM, with 23 mm mortise face plate

#### For Solitaire 710 Series with Slim Mortise (part # 135-509000)

- DT-509684 ESM, with 23 mm mortise face plate

#### Others templates available for order:

- DT-509272 SMM, with 20 mm mortise face plate
- DT-509683 ESM, with 20 mm mortise face plate
- DT-508661, with cylindrical unit

### Tools required for complete lock installation

- $\frac{5}{64}$ " hex (Allen) key (supplied in lock spare parts box)
- $\frac{1}{8}$ " hex (Allen) key (supplied in lock spare parts box)
- $\frac{1}{2}$ " (13 mm) chisel
- $\frac{1}{8}$ " (3 mm) drill bit;  $\frac{1}{4}$ " (6.5 mm) drill bit;  $\frac{7}{16}$ " (11 mm) drill bit
- $\frac{7}{8}$ " (22 mm) hole saw; 1 $\frac{1}{4}$ " (32 mm) hole saw; 1 $\frac{3}{8}$ " (35 mm) hole saw
- Hand drill, Hammer, Rubber mallet
- Flat-head screwdriver, #2 Phillips screwdriver
- Two pliers (mechanical-core & removable-core override models only)
- Fine steel file, Rotary tools, Router, Mortising machine, Mortise faceplate router template, Adjustable square, Tape measure, Pencil, Tape, Safety glasses
- Cleaning supplies (such as a vacuum or drop cloth)

**Caution:** Wear safety glasses when making holes.

**Note:** The lever handle must be located the proper distance from the floor as per codes for the country where the lock is being installed.

### 1 Installing the strike

Use the paper template to mark the cutouts for the strike box and plate in the door-frame.

For the American mortise versions, ensure that the bottom of the ASA strike lip lines up with the axis of rotation of the lock lever handle.

For the slim mortise versions, ensure that the strike centerline is 1 $\frac{3}{8}$ " (35 mm) above the axis of rotation of the lock lever handle.

**Make the cutouts in the door-frame and install the strike box.**

Select the appropriate strike plate for the **handing** of the door.

**For further details, see paper template.** Position the strike plate **in the cutout** and secure it using two or three screws (as appropriate).

### 2 Drilling the mortise hole

Locate and mark the centerline for the mortise cutout. See paper template.

**Note:** For the American mortise versions, the centerline of the mortise cutout is  $\frac{11}{64}$ " (4.5 mm) below the centerline of the strike. For the slim mortise versions, the centerline of the mortise cutout and the strike are identical.

Mark the total length of the cut out for the mortise case, one mark for the top, one for the bottom, both being equally spread from the center line, as per the paper template.

Cut out the mortise case hole to the width and depth specified on the paper template, using the mortising machine. Mark and make the mortise front plate cut out as per the paper template.

### 3 Drilling the holes

Drill from both sides of the door. Do not drill from one side of the door through to the other. Mount the jig **on** the door right side up (**see printing on jig**) by fully inserting the two tabs into the mortise front plate cutout. Tighten the clamps to **hold the jig firmly** on the door.

Drill the two mounting holes for the mortise into the edge of the door using a  $\frac{1}{8}$ " (3 mm) drill bit, according to the depth indicated on the paper template.

Drill the appropriate hole cutouts through the door as specified on the paper template (**from one side of the door and then the other**).

- For Solitaire 710, the bottom hole for override must be pierced 1 $\frac{3}{8}$ " (35 mm) diameter by 1 $\frac{1}{4}$ " (32 mm) deep from the exterior side only. The interior side must be pierced  $\frac{7}{8}$ " (22 mm) diameter.
- For Solitaire 710-II and SMART, the bottom hole for override must be pierced 1 $\frac{3}{8}$ " (35 mm) diameter from both sides, as per the paper template. The steel tube provided with the lock must be installed in the hole.

Loosen the jig clamps and remove the jig from the door.

Chisel out clearance for the anti-friction latch in the mortise cavity as shown on the paper template.

Clean the holes and cavities in the door. If the holes are made through steel, brass or other metal, remove the burrs on the edge that could cut the wires and cable.

### 4 Installing the mortise latch mechanism and the lock

Install the mortise latch mechanism and the lock as described in the Installation Instructions Part # PK2710.