

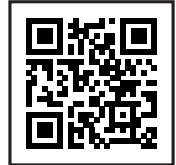


FR180

Frame Repair Kit

INSTALLATION INSTRUCTION

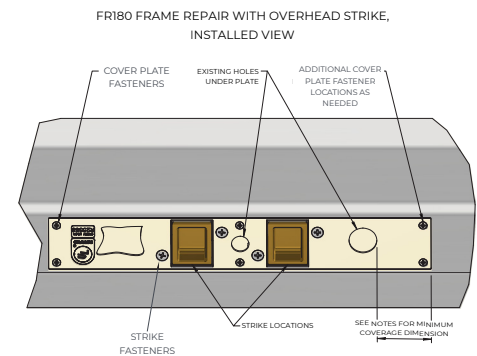
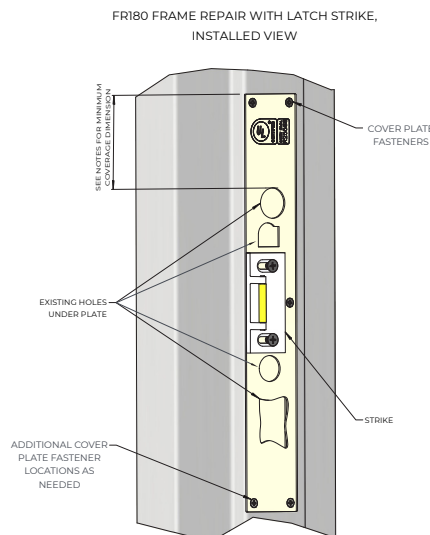
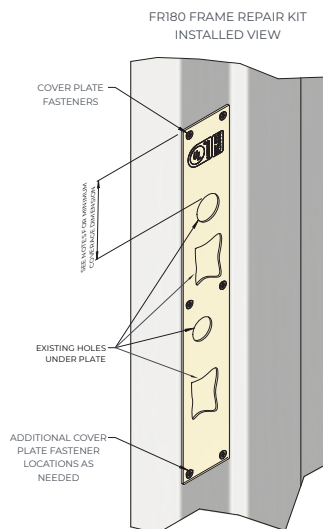
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The FR180 Frame Repair Kit is a 16-Gauge Steel Cover Plate that is Secured to the Existing Frame and/or Door. This Kit is a Solution Used for Concealing Unused Holes and/or Cutouts in the Frame and/or Door, While Also Providing a Means of Attaching Listed and Labeled Hardware. Rated up to 180 Minutes.

Limitations & Allowances:

- ▶ Allowed to be Used on Steel Doors up to 16 Ga. Thickness
- ▶ Allowed to be Used on Steel Frames up to 14 Ga. Thickness
- ▶ Allowed to be Modified for Use with Listed Surface Mounted Hardware and Listed Door Position Switches (up to 1 1/8" Diameter)
- ▶ Cover Plate Allowed to Span up to 48"
- ▶ Cover Plate Length Allowed to be Cut, However, Final Dimensions Must Maintain a Minimum Overlap of Cutout to Provide Sufficient Surface Area to Install Cover Plate Fasteners (#6 Screws or 1/8" Diameter Steel Rivets)
- ▶ Maximum Spacing between Cover Plate Fasteners is 5 1/2"
- ▶ Adhesive Tape May be Used in Addition to Mechanical Cover Plate Fasteners
- ▶ After Cutting to Desired Length, Ensure at Least One UL Mark is Visible and Legible
- ▶ Maximum Area of Cutout in Frame Concealed by Cover Plate is:
 - ▶ 5.5 Sq. In. up to 12" Cover Plate
 - ▶ 12.0 Sq. In. between a 24" and 48" Cover Plate.No Single Cutout Larger than 5.5 Sq. In.

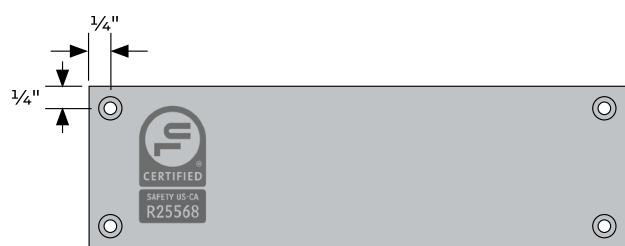


FR180

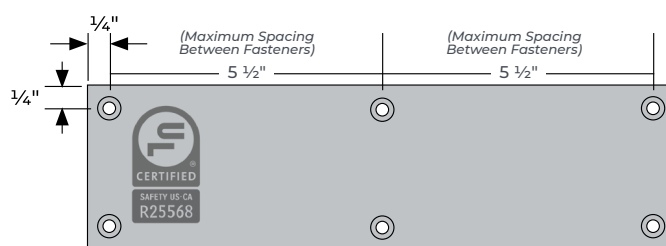
INSTALLATION INSTRUCTION *(continued)*

▶ Required Number and Location of #6 Fasteners or Steel Rivets Per Length of Cover Plate are as Follows:

- ▶ Up to 6"
 - 4 Fasteners (Minimum)
 - $\frac{1}{4}$ " in from Each Corner
- ▶ Over 6"
 - $\frac{1}{4}$ " in from Each Corner, and $\frac{1}{4}$ " from Edge at Centerline Lengthwise
 - Number of Fasteners Determined by Length of Cover Plate. Maximum Spacing Between Fasteners is $5\frac{1}{2}$ " Throughout Length of Cover Plate
 - If Cutout Exists Under Cover Plate, Fasteners Must be Within $2\frac{3}{4}$ " from Edge of Nearest Cutout.



FR180 UP TO 6"



FR180 OVER 6"

Installation Procedure:

1. Cutout must be clean and free of oil and debris.
2. Cover plate to be installed using #6 x $\frac{3}{8}$ " minimum length fasteners. Alternatively, steel rivets of $\frac{1}{8}$ " diameter minimum may be used.
3. Cover plate can be cut down to accommodate desired length, while maintaining standards outlined in "Limitations & Allowances."
4. Locate thru-holes in cover plate. If cover plate is cut down, add thru-holes to maintain minimum number of fastener locations.
5. If necessary, drill $\frac{9}{64}$ " thru-hole in cover plate as per layout described in the section, "Limitations and Allowances."
6. If desired, countersink thru-holes for #6 fasteners to ensure head is flush or inset from cover plate.
7. Place cover plate over cutout ensuring proper coverage over the cutout.
8. Transfer hole locations onto frame and/or door.
9. Prep hole for #6 fastener or steel rivet.
10. If optional tape is installed, remove backing from tape, then install cover plate with UL mark visible. Upon installation ensure head of fasteners do not interfere with door operation.
11. If needed, install Listed & Labeled hardware onto cover plate (i.e. strikes, latches, etc.).

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