

TuBAR[®]/Turbine Retrofit for Wayne Ovation Multi-Point Latch

 (Not compatible with Ovation II)

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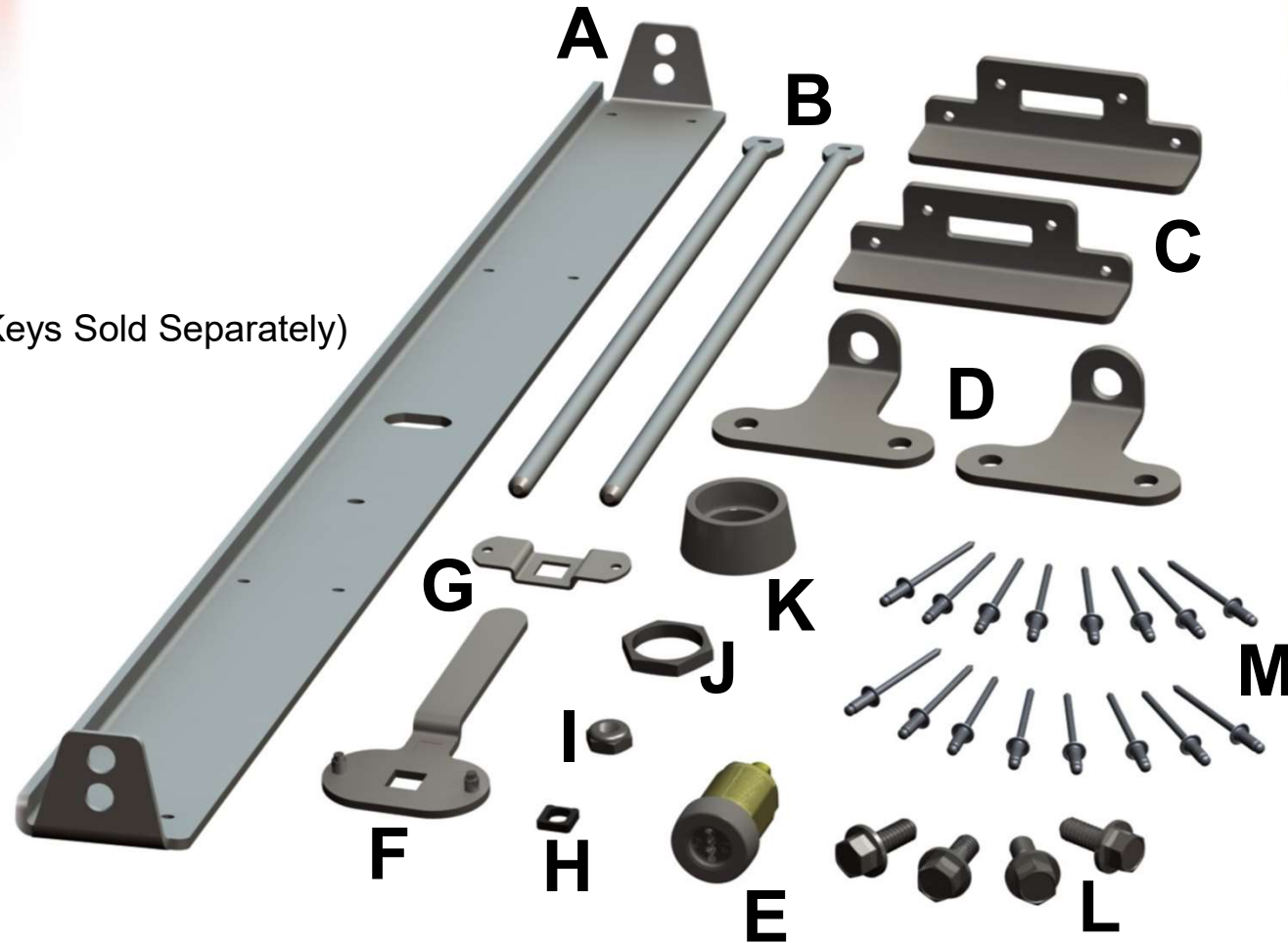
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TuBAR®/Turbine Skirt Door Retrofit: Ovation



Part # MPL-DWO-1

- A. Door Bracket (1)
- B. Locking Bar Rod (2)
- C. Support Bracket (2)
- D. Rod Bracket (2)
- E. TuBAR®/Turbine Lock (1) (Keys Sold Separately)
- F. Latch Cam (1)
- G. Rod Retainer Plate (1)
- H. Cam Adapter (1)
- I. Hex Nut 9/32-28 (1)
- J. Hex Nut 3/4-27 (1)
- K. Protecting Collar (1)
- L. Hex Bolt 1/4-20 x 5/8 (4)
- M. Pop Rivet Ø.125 (16)



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1. Place corner of Support Bracket(C) against corner of existing door panel making sure the rectangular cutout is centered with the cutout on the door tab. (Fig 1)
2. Drill four $\text{\O}1/8$ holes using the Support Bracket(C) as a template. (Fig 2). It may be necessary to clamp Support Bracket(C) to door panel during drilling to prevent slipping.
3. Install four Pop Rivets(M) with finished side of head on the bottom of door panel. (Fig 3)
4. Repeat steps 1-3 for other Support Bracket.

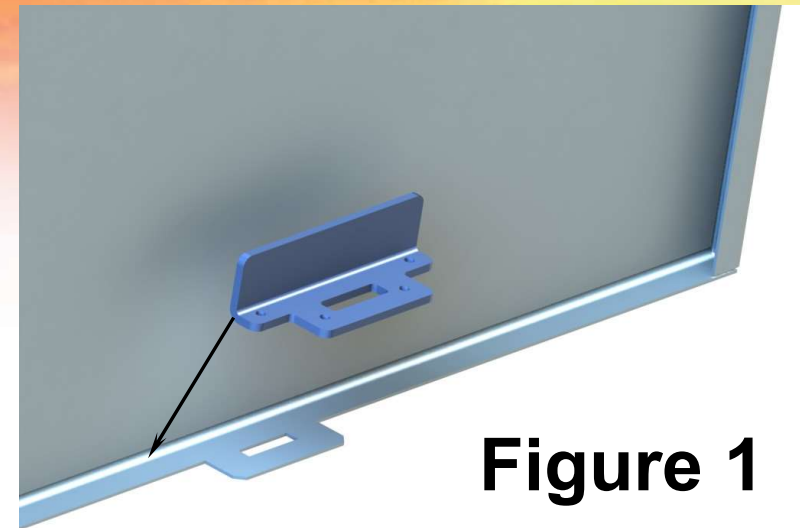


Figure 1

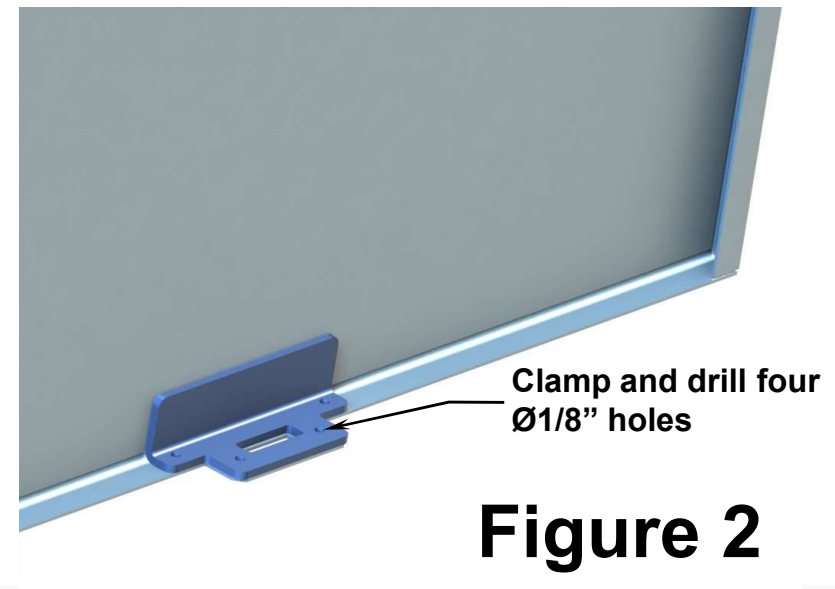


Figure 2

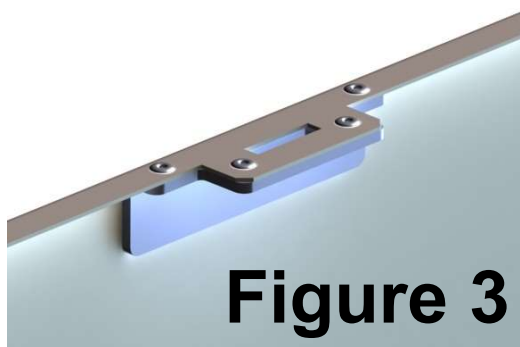


Figure 3

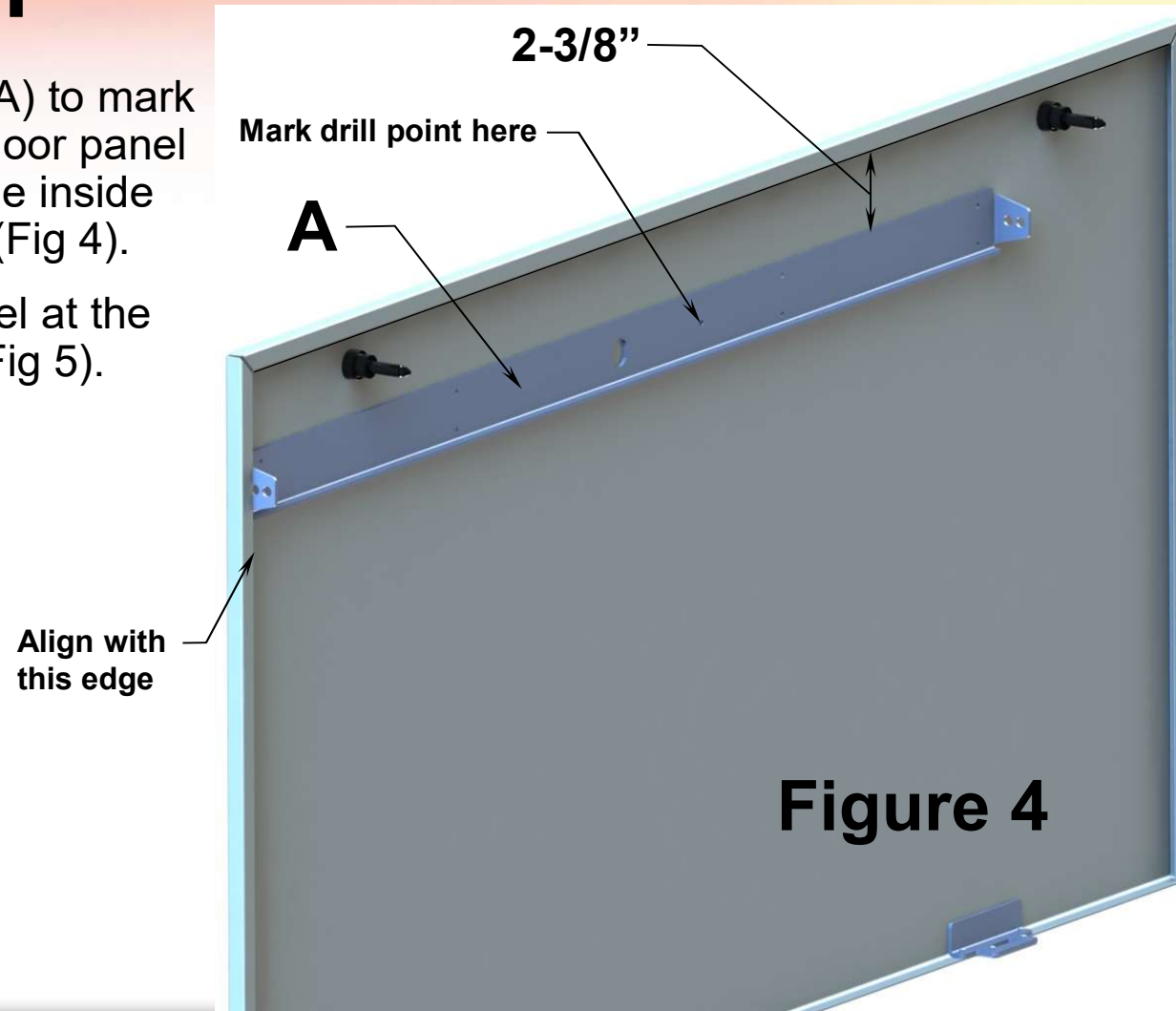
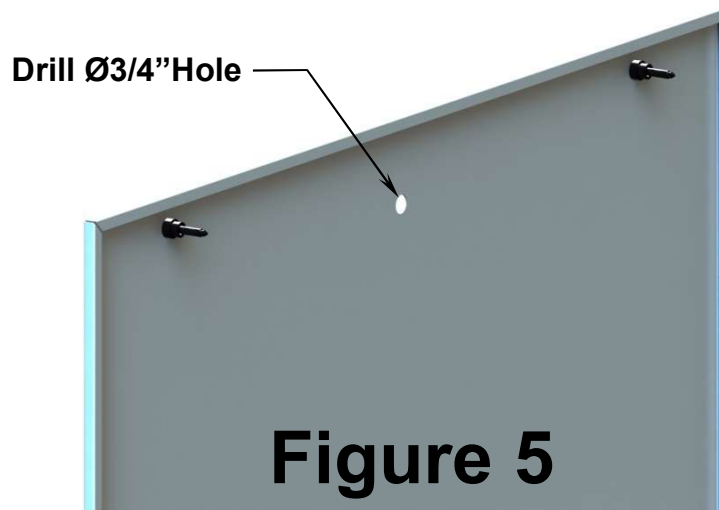
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5. Use drill template on Door Bracket(A) to mark a point in the center of an existing door panel by placing Door Bracket(A) along the inside edge 2-3/8" from top edge of door (Fig 4).
6. Drill $\text{\O}3/4$ " hole in existing door panel at the location of point marked in step 5 (Fig 5).



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7. Insert Lock Assembly(E)
into Protecting Collar(K)
into hole drilled into door panel.

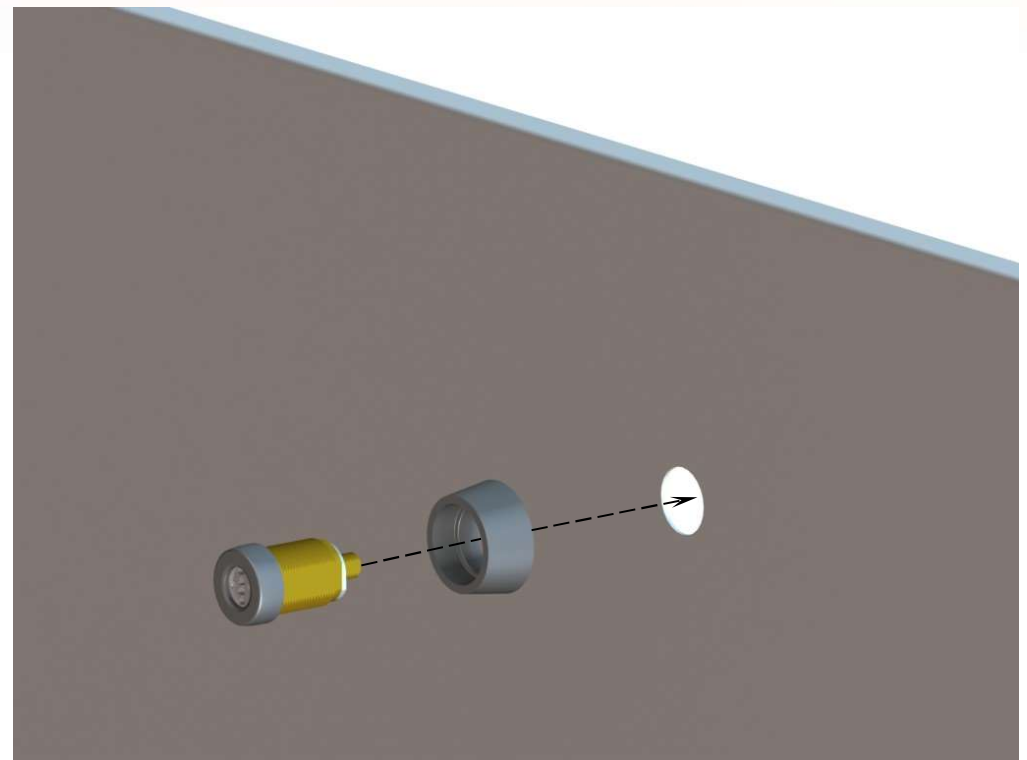


Figure 6



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8. Assemble Door Bracket(A) to Lock Assembly, then assemble $\frac{3}{4}$ -27 Hex Nut(J). Hand tighten nut until after the first Pop Rivet(M) is installed.

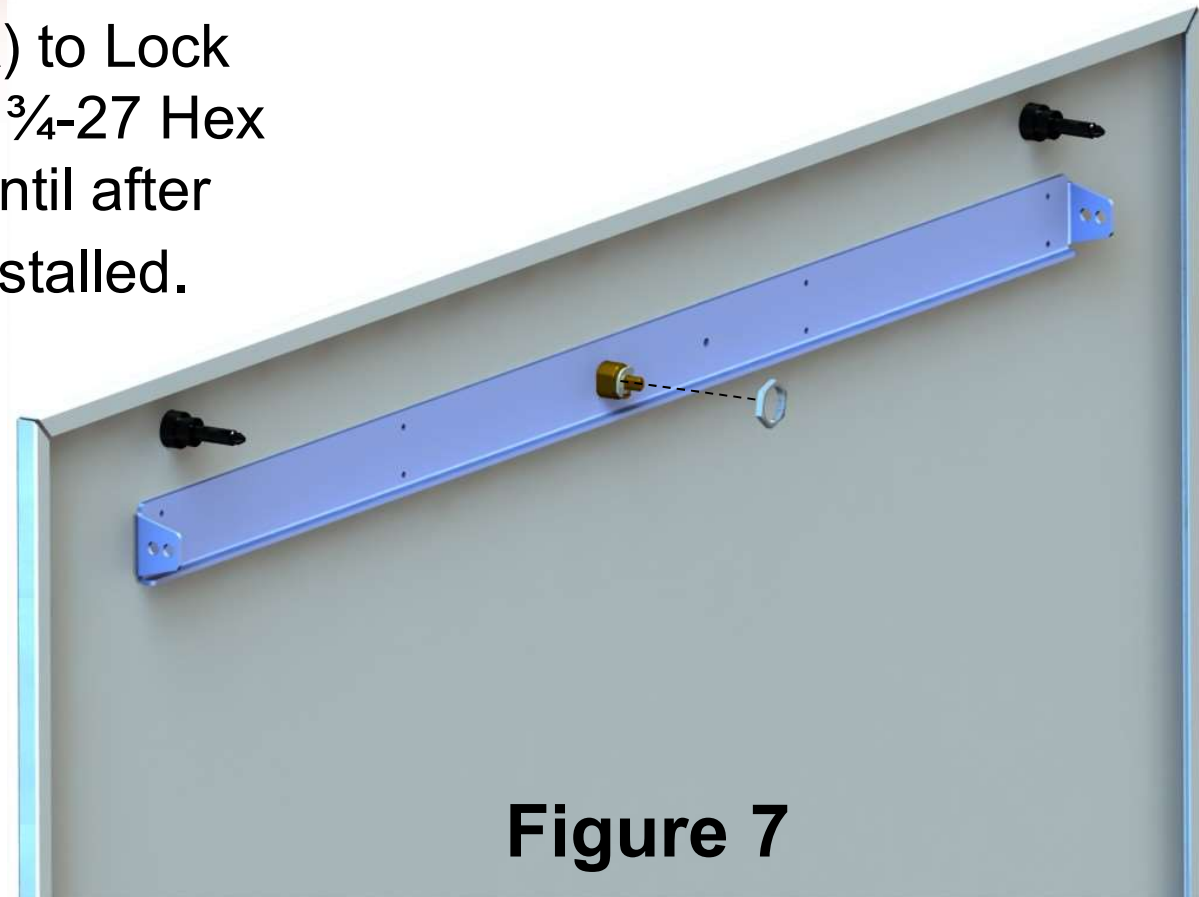


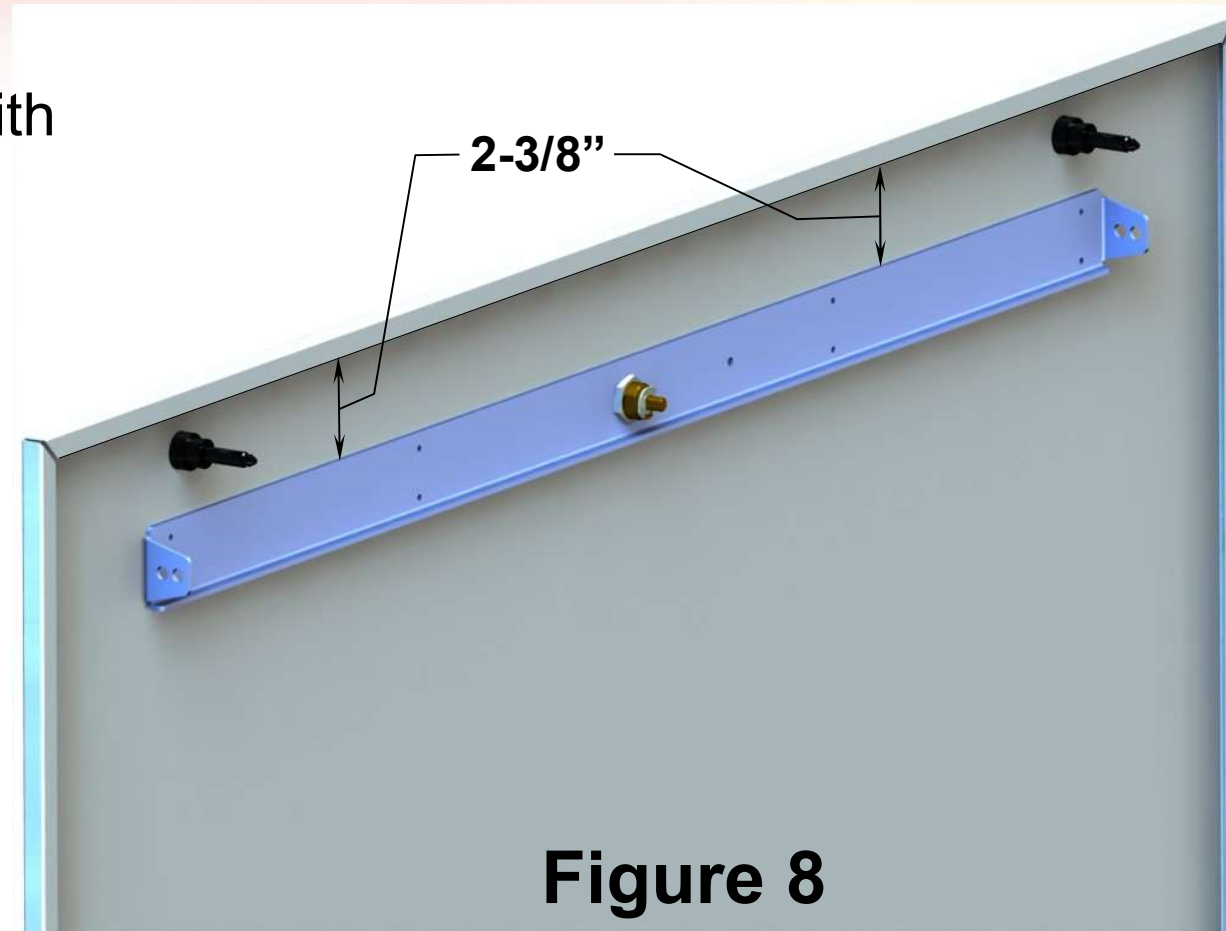
Figure 7

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9. Level Door Bracket(A) with top edge of door panel.



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TuBAR®/Turbine Skirt Door



Retrofit: Ovation

Part # MPL-DWO-1

10. Drill one $\text{Ø}1/8$ hole using Door Bracket(A) as a drill template.
11. Insert one Pop Rivet(M) into hole and crimp with finish side of rivet on the outside of door panel.

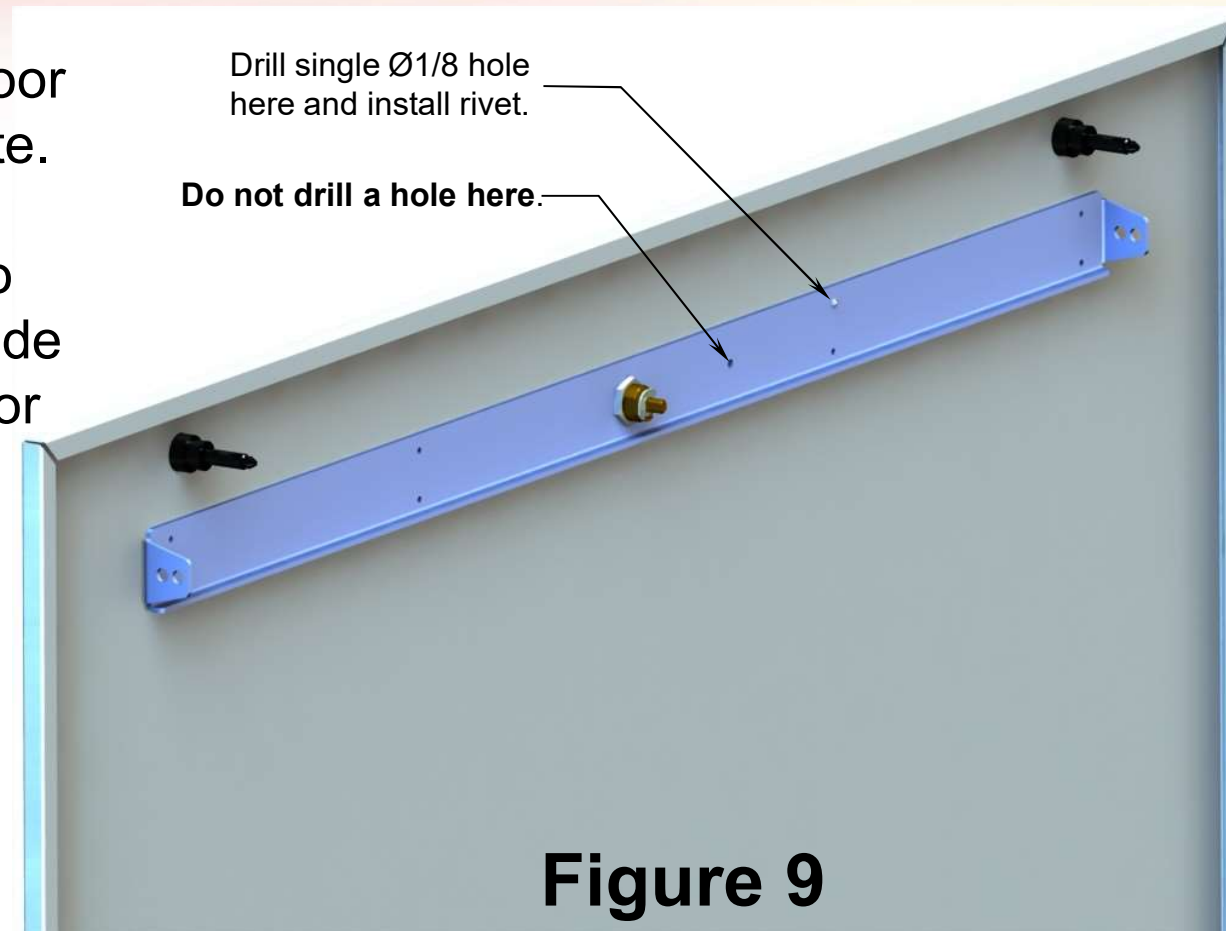


Figure 9

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12. Tighten $\frac{3}{4}$ -27 Hex Nut(J).
13. Drill and install Pop Rivets(M) in remaining 7 holes.

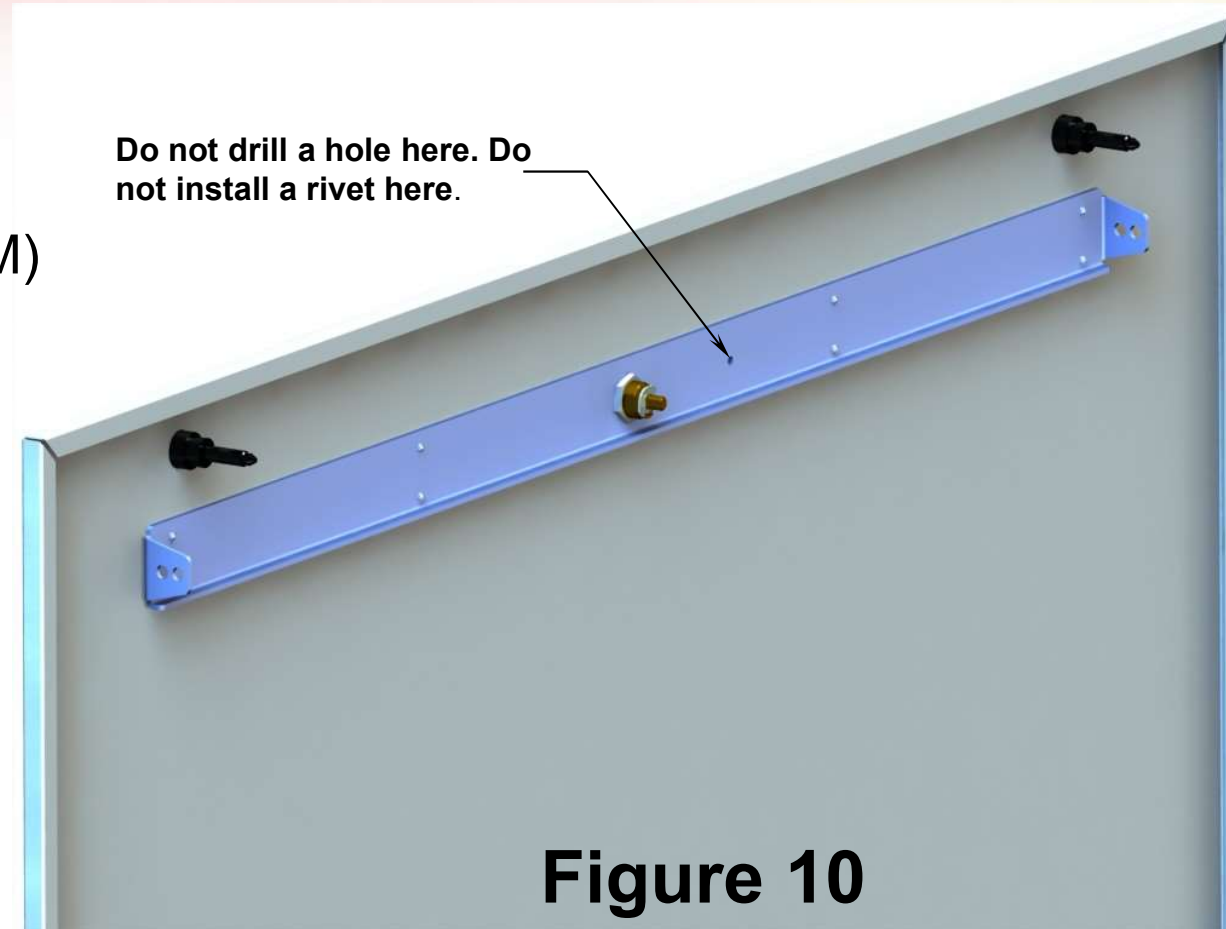


Figure 10



TuBAR®/Turbine Skirt Door



Retrofit: Ovation

Part # MPL-DWO-1

14. Press in Cam Adapter(H) into Latch Cam(F) as shown in Fig (11).

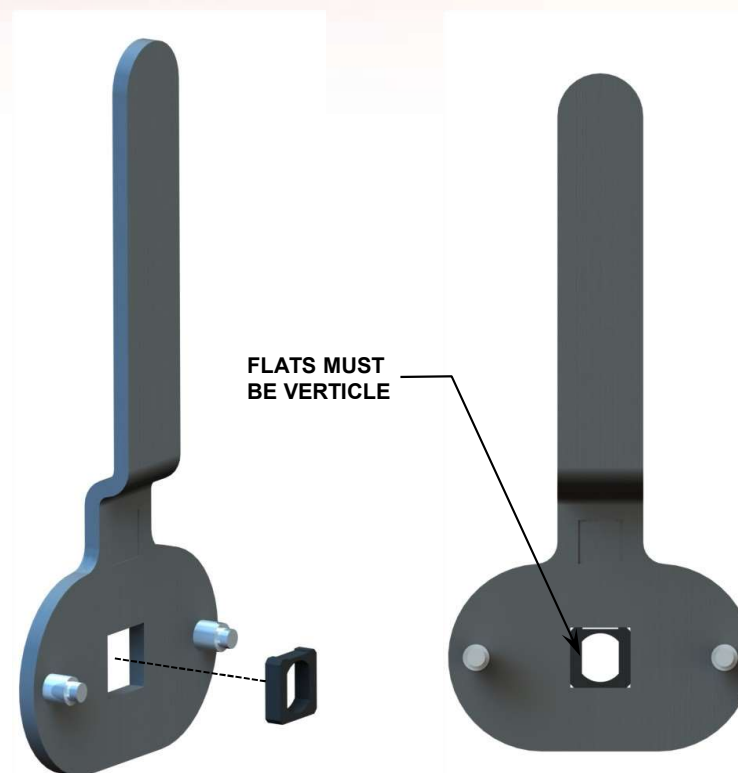


Figure 11



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15. Assemble Latch Cam(F) to Lock Assembly as shown in Fig (12).

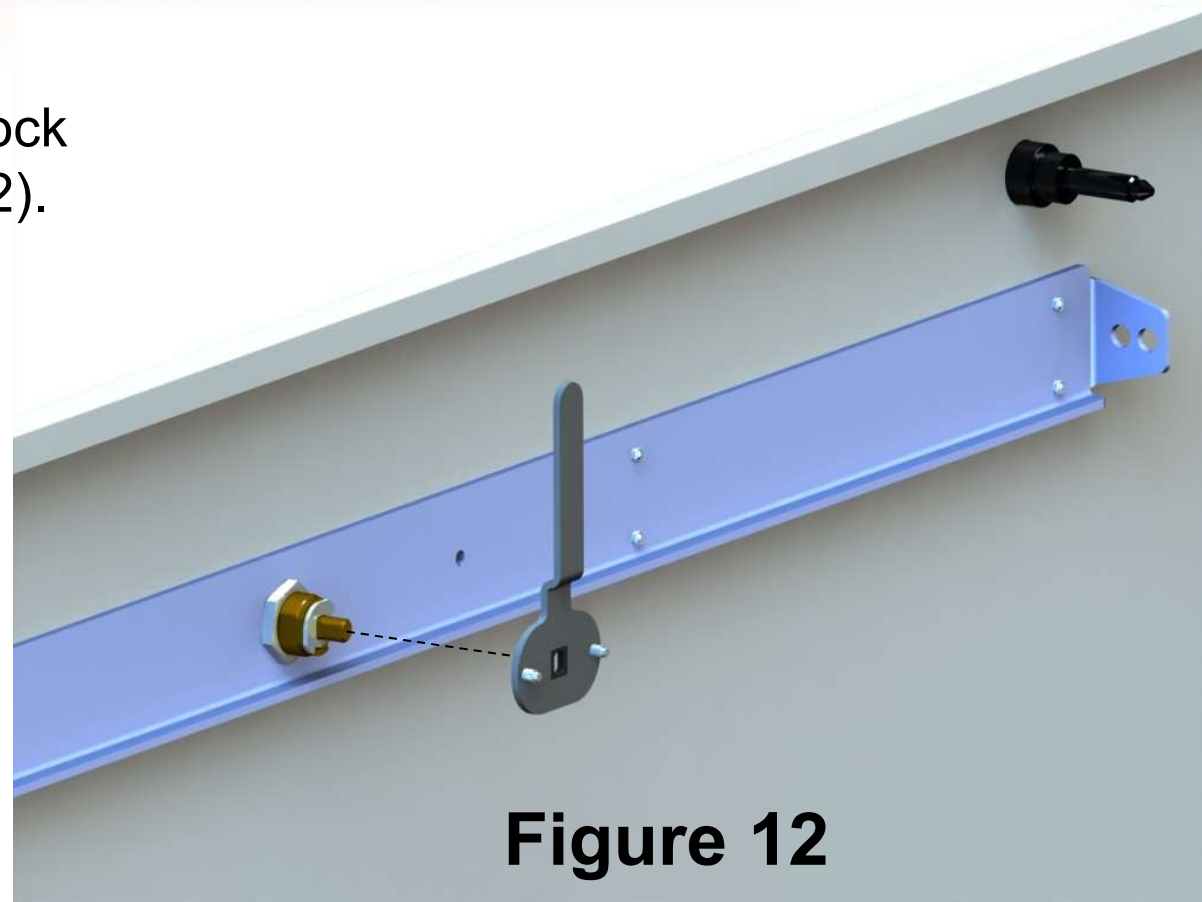


Figure 12



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16. Slide Locking Bar Rods(B) through outer holes in Door Bracket(A) and attach flange ends to Latch Cam pins as shown in Fig (13).

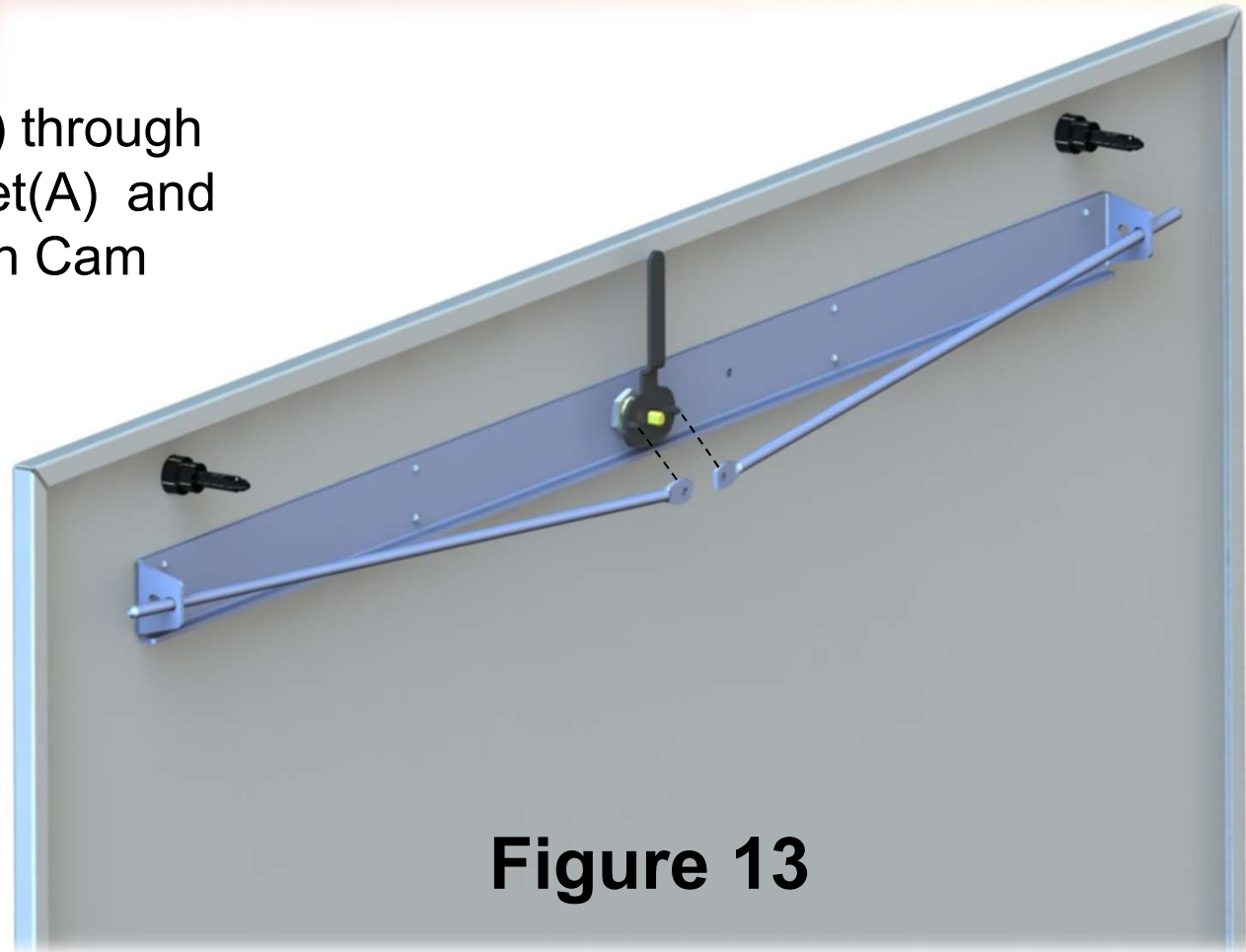


Figure 13

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17. Assemble Rod Retainer Plate(G) and 9/32-28 Hex Nut(I) as shown in Fig 14.

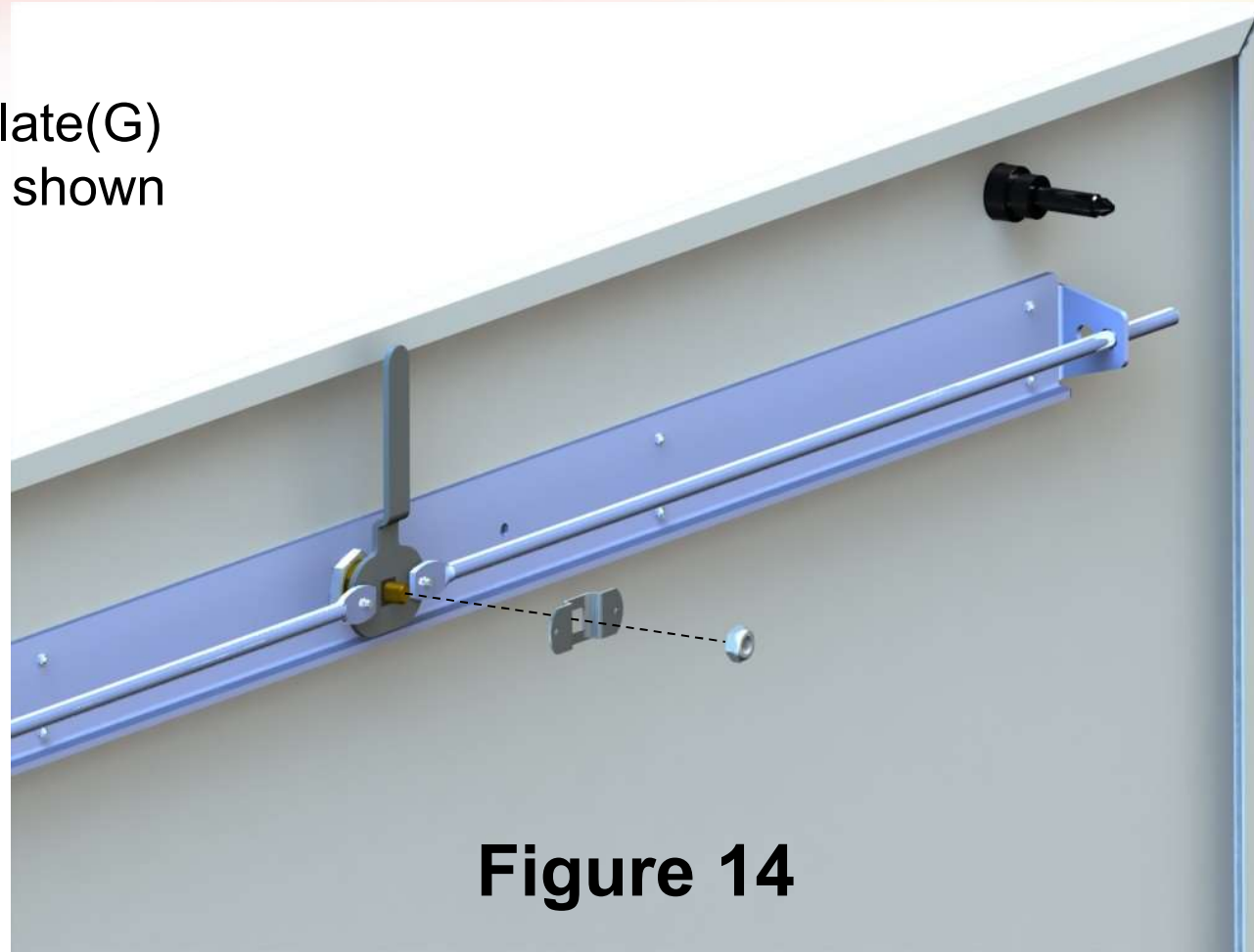


Figure 14



TuBAR®/Turbine Skirt Door Retrofit: Ovation Part # MPL-DWO-1



Figure 15 shows completed Ovation retrofit door assembly.

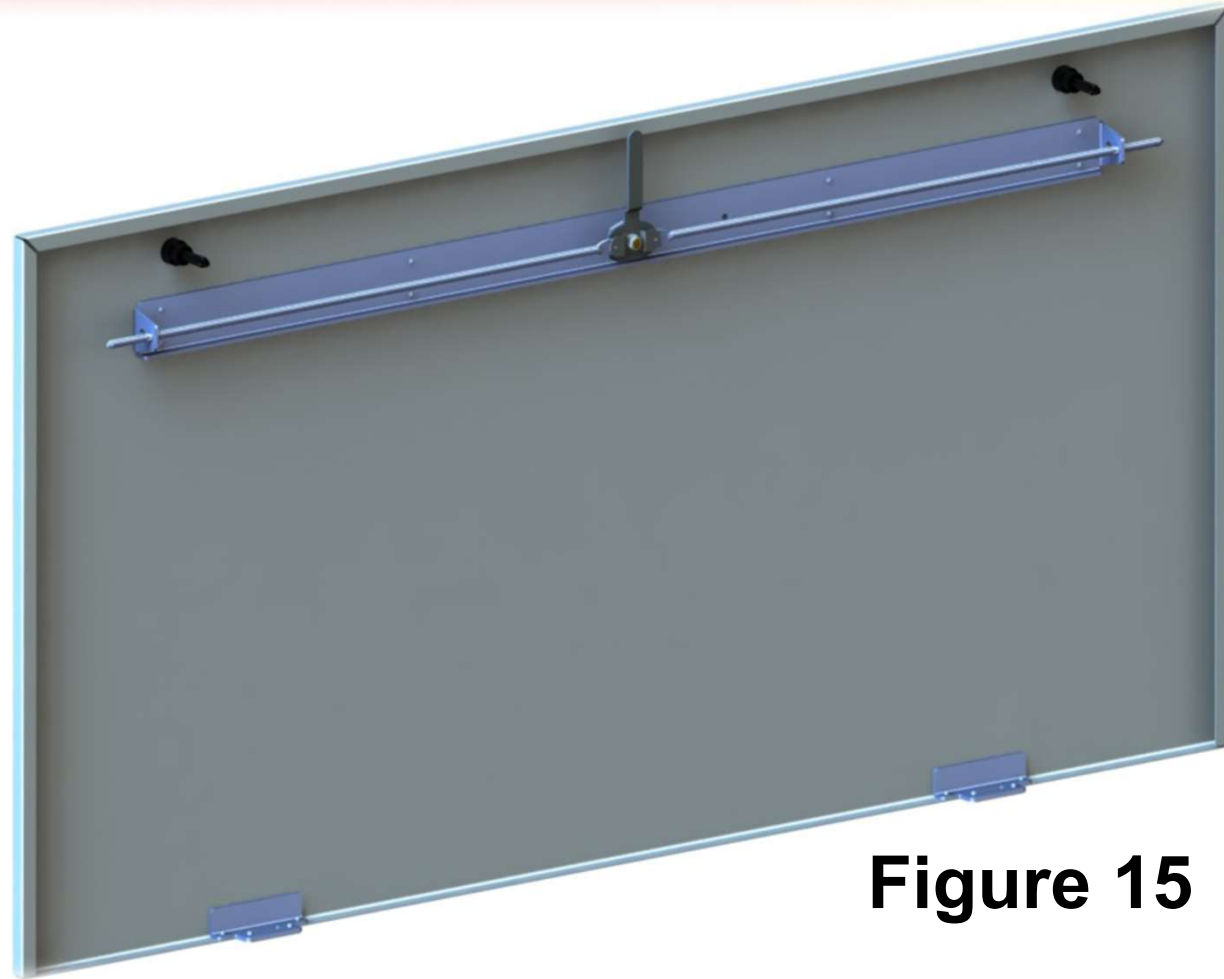


Figure 15



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18. Drill two holes $\text{Ø}.214/.228$ in the frame vertical at locations shown in Fig 16.
19. Position the Rod Bracket(D) on the frame vertical with the bend of bracket pointing as shown in Fig 17. Assemble to frame using (2) $\frac{1}{4}$ -20 self threading Hex Nuts(L).
20. Repeat Steps 18 and 19 for other Rod Bracket(D).

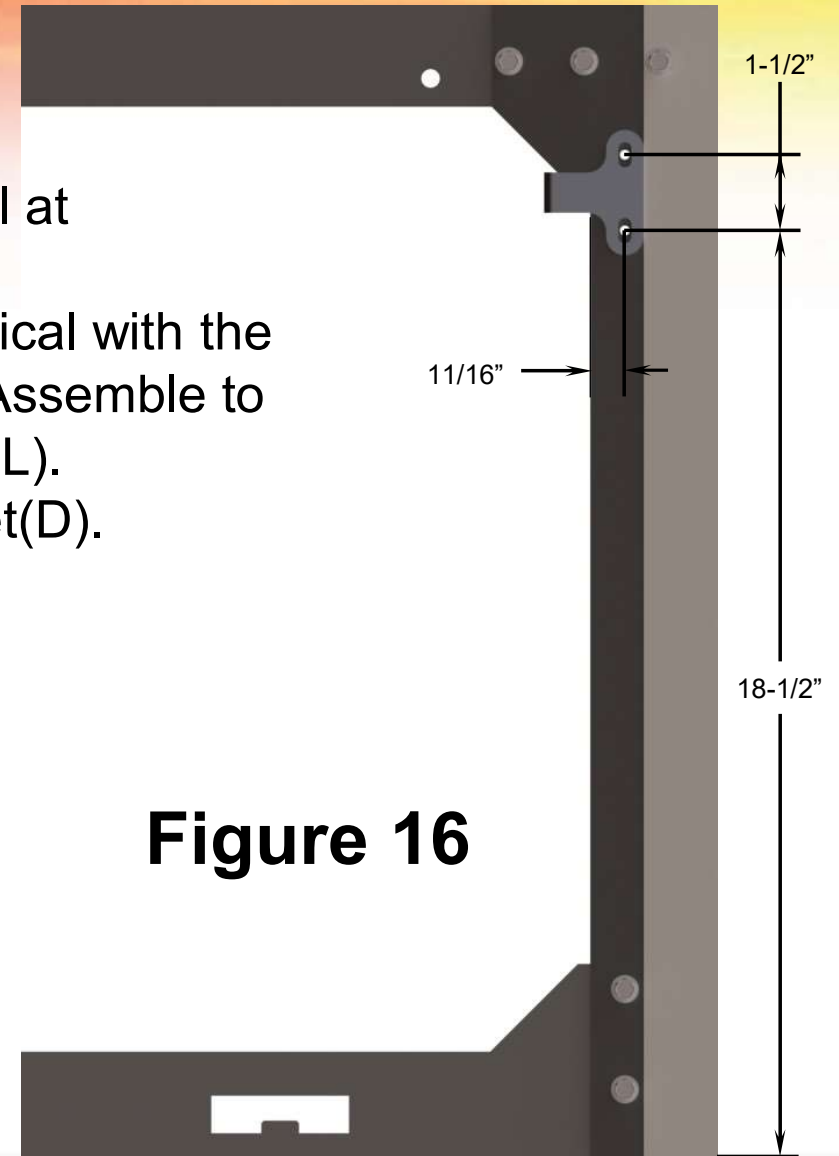


Figure 16

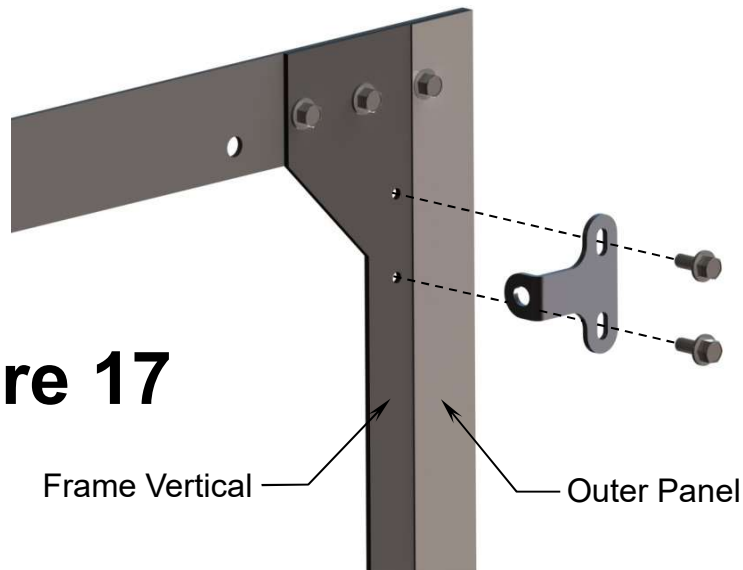


Figure 17

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