

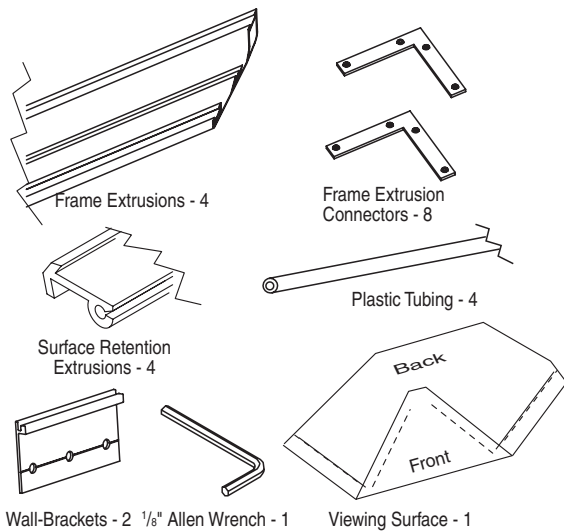
# Assembly/Mounting Instructions

## Onyx Permanently Tensioned Projection Screen by Draper

### ⚠ Caution

- ① Read instructions through completely before proceeding.
  - ② Follow instructions carefully. Installation contrary to instructions invalidates warranty.
  - ③ Screen should be accessible for complete removal should fabric become damaged or should other service be required.
  - ④ Screen should be installed level (using a carpenter's level).
  - ⑤ Nothing should be fastened to screen frame or viewing surface.
  - ⑥ Make sure you have received all parts (see parts list below and exploded diagram on page 2).
  - ⑦ Tools Required: 1/8" Allen wrench (included); #2 Phillips screwdriver. Optional tools: Flat blade screwdriver or small putty knife.
  - ⑧ Installer is responsible for providing appropriate hardware for mounting.
  - ⑨ When lifting assembled screen, do not lift at only one corner; lift at both corners. Lifting by one corner could result in damage to the screen frame, especially on large screens.
  - ⑩ The ideal temperature range for assembling folding screens to prevent damaging the surface is 68°-78° F (20°-26° C). Assembling below recommended temperatures may damage surface and void warranty.
- NOTE:** Screen has been thoroughly inspected and tested at factory and found to be operating properly prior to shipment.

### Onyx—Hardware and Parts List



### Frame Preparation

- ① Clean area and place frame assembly pieces face down. Insert frame extrusion connectors into aluminum frame extrusions as indicated in Figures 1 through 4. For easier assembly insert the inner connectors first.

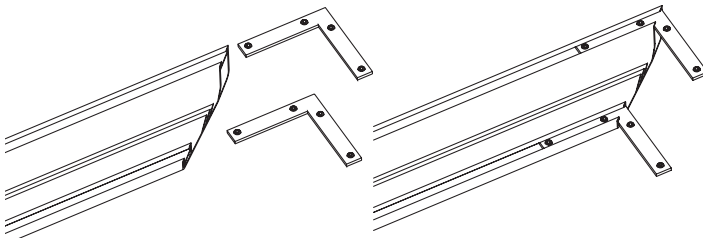


Figure 1

Figure 2

**Please Note:** If extrusion connectors do not slide into frame extrusions, make sure that setscrews are backed out enough to allow proper clearance.

Patented by Draper, Inc., U.S. Patent Nos. 6,785,047; 7,113,332; and 7,369,310.

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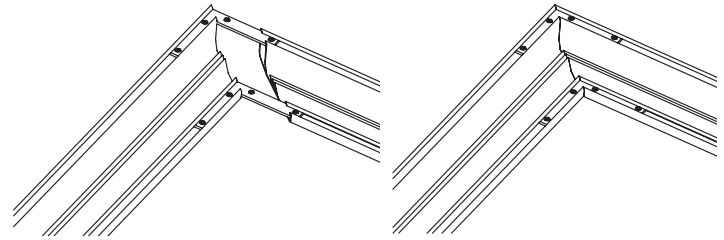


Figure 3

Figure 4

- ② Make sure frame extrusion connectors are fully seated (see Fig. 5).

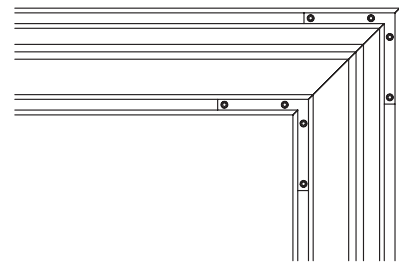


Figure 5

- ③ Secure connectors by tightening setscrews (see Fig. 6).

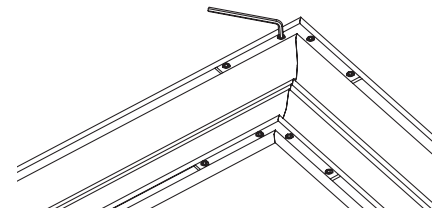


Figure 6

- ④ Repeat steps 1-3 for the remaining corners (see Fig. 7).

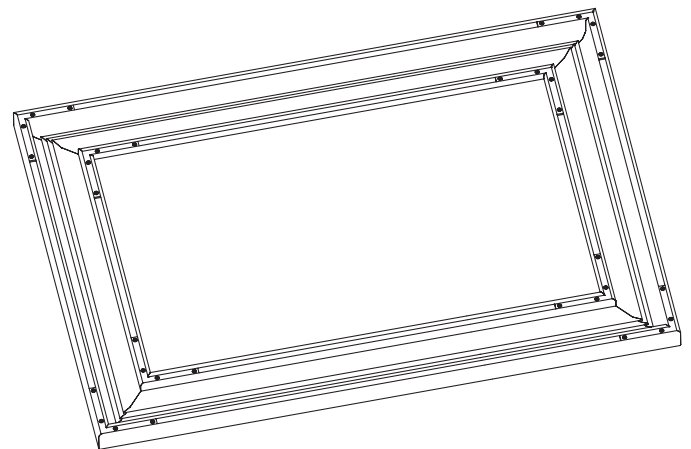


Figure 7

The Onyx has a precision cut mitered corner.

**Please Note:** If corner gaps exist (painted frame only) readjusting the frame and/or applying a small bead of black silicone to fill the gap is the best solution. Apply a very small bead of black silicone to area where frame gap exists. Work silicone into gap (using your finger or a cloth). Remove ALL silicone on face of frame; only silicone inside gap should remain.

**⚠ Caution:** When lifting assembled screen, do not lift at only one corner; lift at both corners. Lifting by one corner could result in damage to the screen frame, especially on large screens.

(Continued on Page 2)

If you encounter any difficulties installing or servicing your Onyx screen, call your dealer or Draper, Inc., Spiceland, Indiana, (765) 987-7999 or fax (765) 987-7142.

**Surface Preparation**

- ① Move frame assembly out of the way, unroll viewing surface and place on smooth/clean surface. Orient viewing surface so that folded side of hem is visible.
- ② Insert plastic tubing inside pocket formed by hem on all 4 edges of viewing surface (see Fig. 8).

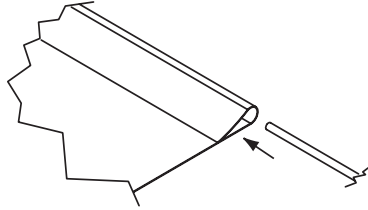


Figure 8

- ③ **Carefully** slide surface retention extrusion (rounded edge visible) along hem and onto surface on all 4 edges of fabric (see Fig. 9). **Caution: Do not allow fabric to snag on end of extrusion. If the screen fabric is not parallel with the surface retention extrusion, then it may slit and tear during installation.**

**Please Note:** To make this step easier, pinch the end of the pocket closed before sliding it into the surface retention extrusion.

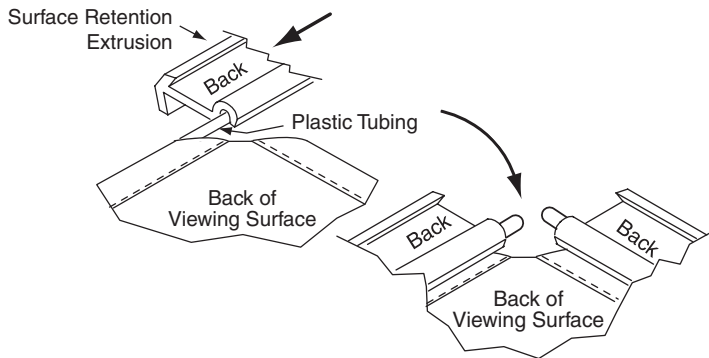


Figure 9

- ④ Surface retention extrusion should extend beyond edge of viewing surface equally at both ends.
- ⑤ Verify that all surface retention extrusions are installed with rounded edge visible and are centered on surface material.

**Surface to Frame Assembly**

- ① Return frame onto clean surface, face down, and drape completed surface assembly over completed frame profile with rounded edge of surface retention extrusion visible.
- ② Insert any side of surface to notch #1 on corresponding side of frame extrusion (see Fig. 10).

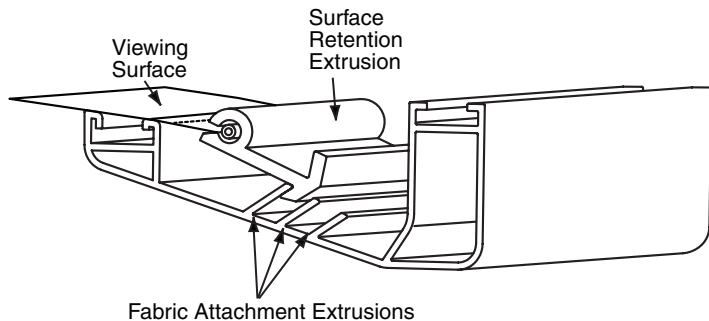


Figure 10

- ③ Insert opposite side of surface to notch #1 of frame extrusion.
- ④ Repeat steps 2-3 with remaining edges of surface.
- ⑤ Ensure surface retention extrusions are centered lengthwise in tension slots on all 4 edges of surface.
- ⑥ If additional tension is desired or required over time, adjust surface one edge at a time to tension notch #2.

**Please Note:** It is not necessary to adjust more than one edge at a time to increase surface tension.

**Mounting Screen to Wall**

- ① Determine height at which screen is to be mounted.  
**Please Note:** Top edge of screen frame will be located 1" above mounting bracket hole centerline when mounted to wall.
- ② Mark hole centerline so that both wall brackets can be mounted parallel and at equal height.
- ③ Install wall brackets so that the outermost edges are safely within overall length of the aluminum frame extrusion to allow for minor horizontal screen adjustments. *Installer is responsible for providing attachment hardware.*
- ④ Position screen slightly above Z-brackets on wall (see Fig. 11).

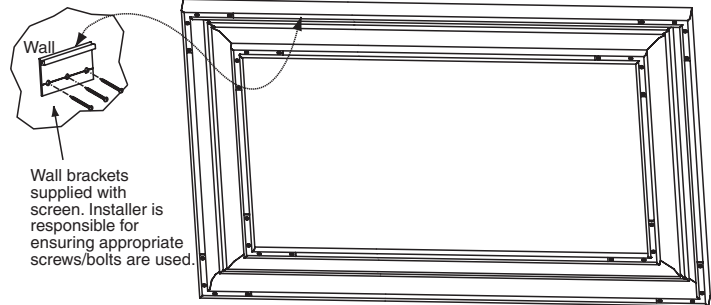


Figure 11

- ⑤ Lower screen until it engages over wall brackets. Center screen horizontally on brackets as necessary.

**Please Note:** Make sure screen is installed level.

**Corner Reinforcement Kit**

A Corner Reinforcement kit is required for flown screens. Corner gussets may only be installed after screen is otherwise completely assembled (including surface).

- ① Install frame per Onyx instructions.
- ② Align corner gusset plate to frame.
- ③ Install the supplied #10-24 x .250" fastener (A) into tapped hole in corner bracket.
- ④ Align corner gusset plate parallel with the outer edges of the frame.
- ⑤ Drill one hole through frame (using holes in gusset plate as a guide) with 1/8" or #30 drill bit.
- ⑥ Install one of the #8 x .750" self-threading fasteners (B) into the hole, and tighten completely to set the plate in position.
- ⑦ Drill the remaining three holes using the gusset plate as a guide.
- ⑧ Install the remaining three #8 x .750" self-threading fasteners (B) and tighten completely to set the plate in position.

**Repeat the above steps on the remaining three corners of the screen.**

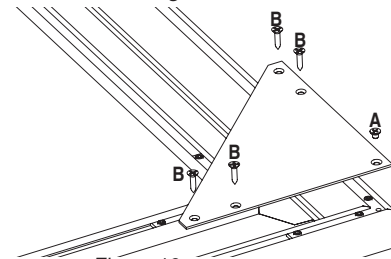
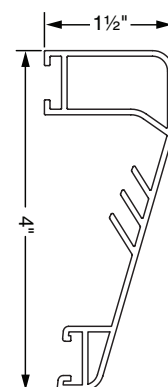
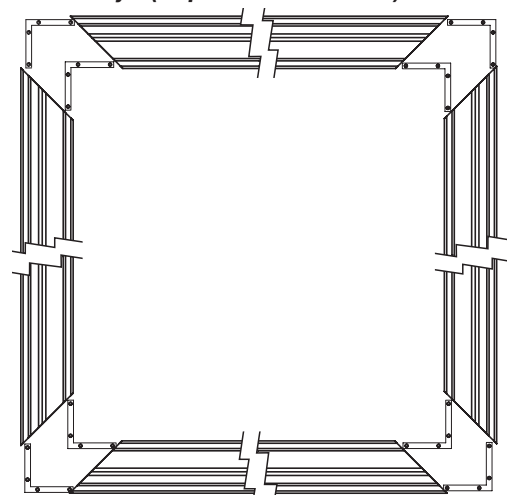


Figure 12

**Onyx Frame  
—Side Detail\***



**Onyx (Exploded Rear View)**



\*Viewing surface is approximately 1/4" from wall.