

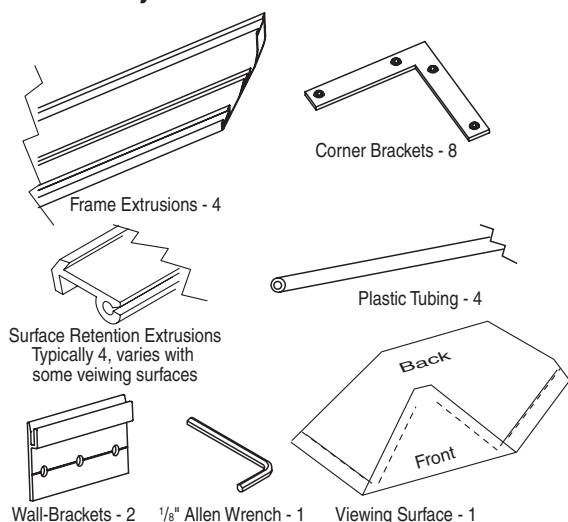
Assembly/Mounting Instructions

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 corner brackets into aluminum frame extrusions as indicated in Figures 1 through 4. For easier assembly insert the inner connectors first.

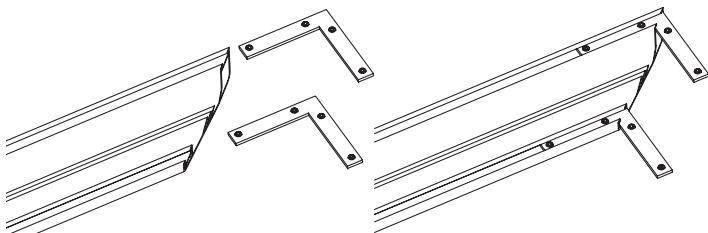


Figure 1

Figure 2

Please Note: If corner brackets 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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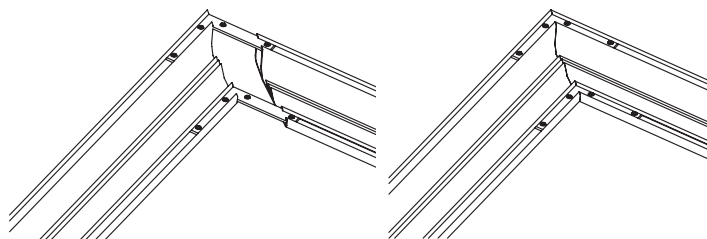


Figure 3

Figure 4

- ② Make sure corner brackets are fully seated (see Fig. 5).

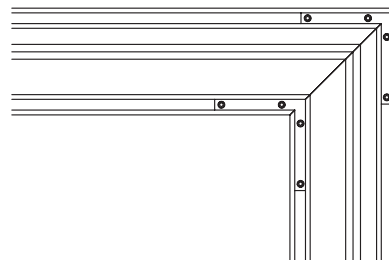


Figure 5

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

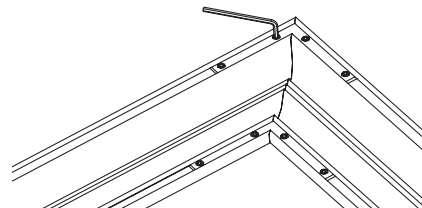


Figure 6

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

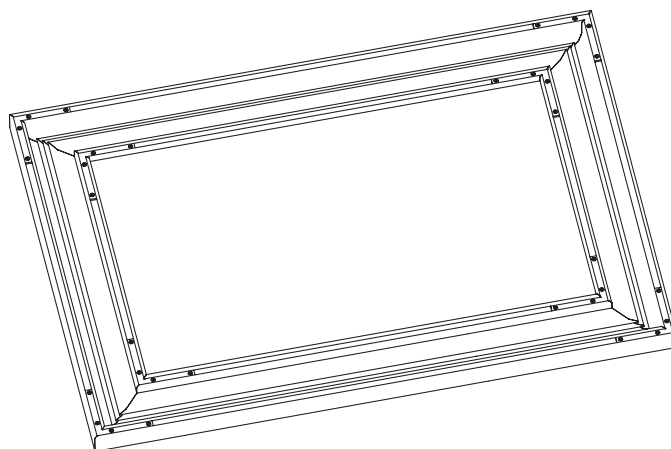


Figure 7

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

For Onyx with High Performance XT850E, Radiant CT2900E, or Contrast Radiant CH2700E viewing surface, see Section B. For all other viewing surfaces, follow instructions in Section A:

Section A

- 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).

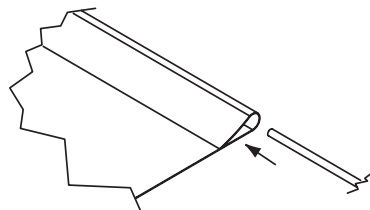


Figure 8

- 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.

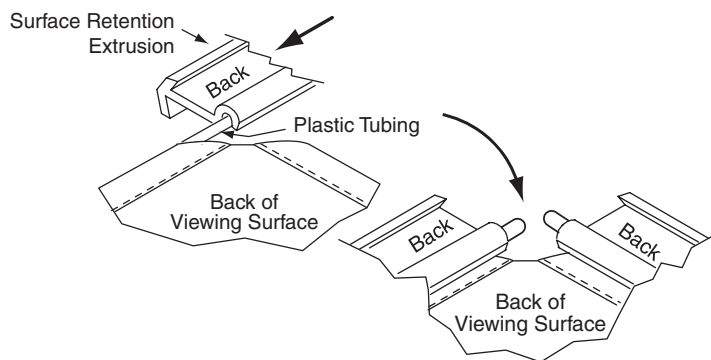


Figure 9

- 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.

Section B

- 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).
- ③ Divide surface retention extrusions up so they will be evenly spaced all the way around the screen.
- ④ **Carefully** slide surface retention extrusions (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 ends of extrusions. 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 extrusions.

- ⑤ The top and bottom of the screen should have the same number of surface retention extrusions. The two sides should also have the same number (but fewer than the top and bottom). This will allow even spacing all the way around the screen.
- ⑥ Verify that all surface retention extrusions are installed with rounded edge visible and are centered on surface material.

Surface to Frame Assembly

For Onyx with High Performance XT850E, Radiant CT2900E, or Contrast Radiant CH2700E viewing surface, see Section B. For all other viewing surfaces, follow instructions in Section A:

Section A

- 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).

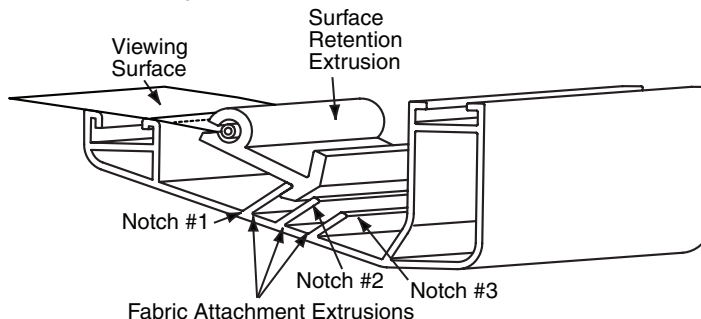


Figure 10

- 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.

Section B

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

***Please Note:** For proper tensioning, start in the center of the frame extrusion, and work your way out to the corners.

- ③ Repeat on opposite side of surface, again using notch #1.
- ④ Repeat steps 2-3 with remaining edges of surface.
- ⑤ Ensure surface retention extrusions are equally spaced in tension slots on all 4 edges of surface.
- ⑥ If additional tension in certain areas of the screen is desired, adjust surface retention extrusions to notch #2 or #3 as necessary.

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

Corner Reinforcement Kit (Part Number 253696)

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.

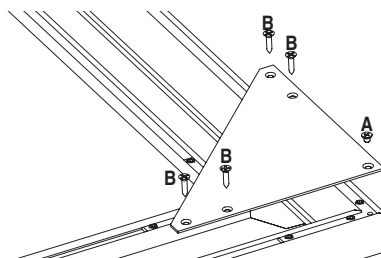
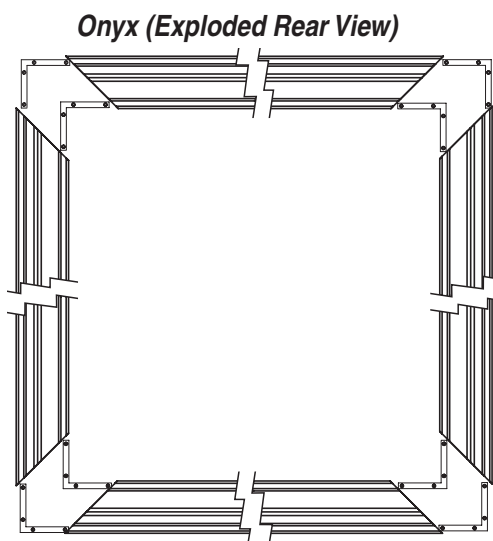
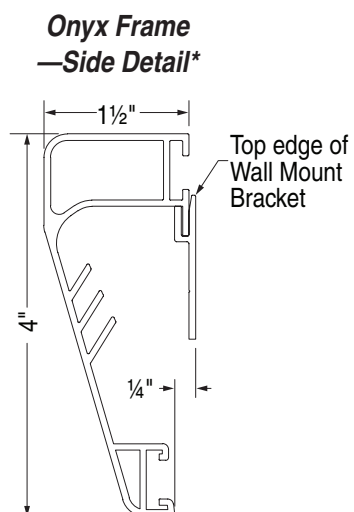


Figure 12



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

**Minimum distance between
top edge of Wall Mount
Bracket and ceiling is 1".**