

# Instructions

9/2010

## Show™ Ad Panel

**HANDLE WITH CARE!** Pangard II® Polyester Powder coat is a strong, long-lasting finish. Protect this finish from damage during installation. Place unwrapped powder coated parts on packaging foam or other non-abrasive surface. Do not place or slide powder coated parts on concrete or other hard or abrasive surfaces – this will damage the finish causing rust to occur. Use touch-up paint to repair any finish abrasions. The lens is UV stabilized polycarbonate. Leave the protective covering in place until all installation and adjacent construction work has been completed.

**Please read and be familiar with all of the Assembly – Installation – Operation Instructions before making site preparations or installation of the Show™ Ad Panel.**

**NOTES:** Landscape Forms is not responsible for site preparation, footings, or electrical wiring.

The Show™ Ad Panel weighs 300lbs. Great care must be exercised when moving the unit into position. A minimum of four persons should be used for moving the unit. Unit may be mechanically lifted from the top casting. **Make sure that powder coat finish is protected.**

Leave the protective lens covering in place until all work has been completed.

### Tools & Materials Required:

- Safety glasses, gloves and hearing protection
- Soft non-abrasive protective surface such as a furniture blanket
- Level
- Hammer drill
- 9/16" masonry drill bit
- Source of compressed air (for thorough dust removal from anchor holes)
- Hilti HIT-HY 150 MAX adhesive system (or equal).
- 5/8" hole brush. Hilti HIT-RB #273207 and Manual Brush T-handle #229138 (or equal)
- Reciprocating saw with metal cutting blade or abrasive cutting wheel (for cutting 304SS anchor studs)
  - File (to remove burrs and restore threads)
  - 1/2-13 die (to restore threads if required)
- 3/8" or 1/2" drive ratchet
  - 3/4" socket
  - 1" deep-well socket (for Hubbell cable connector)
- 3/4" open end wrench
- 1/8" Hex key
- 3/8" Hex key
- Protective gloves
- Gardner Bender - Duct Seal DS110 or silicone sealant
- Glass cleaner suitable for polycarbonate such as Hope's Perfect Glass (or equal)
- Soft cotton cloth

# Instructions

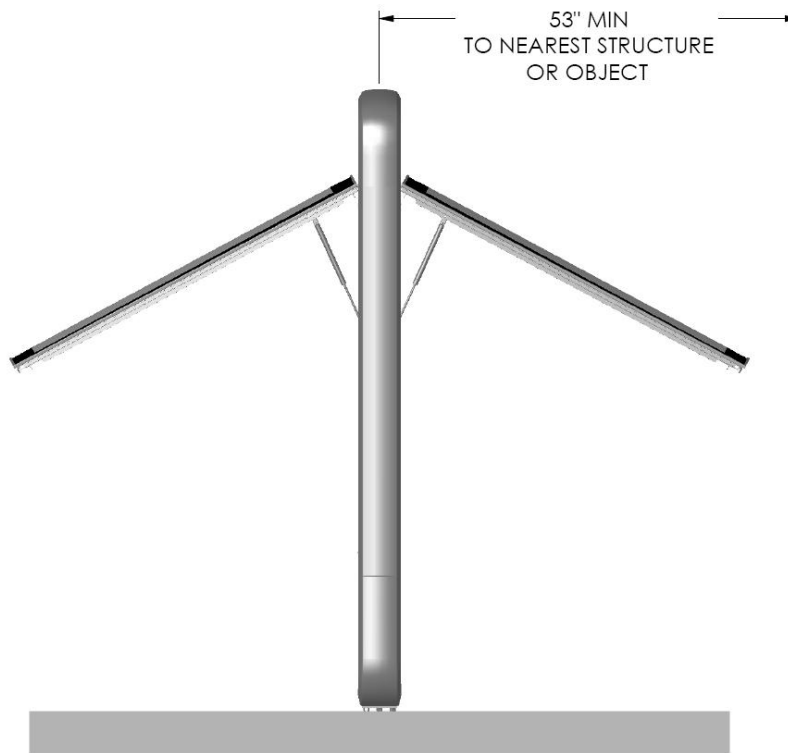
Assembly  
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## Procedure for installing Show™ Ad Panel:

### Step-1

Location of the Show™ requires thought and planning.

1. For locating the Show™ into position, pay attention to the space needed for the lens in the open position relative to adjacent structures (min 53" recommended). **Figure-1**



**Figure-1**

2. Minimum 3000psi 6" thick reinforced concrete mounting surface is required.
3. A **TEMPORARY** aluminum anchor drilling template is included with the Show™. The template is for locating the electrical conduit as well. At installer's request, the template may be sent to the jobsite prior to Show™ delivery.
4. ½-13 x 8" 18-8 stainless steel threaded studs are provided. The 8" studs will work for slopes up to 3% or ¾" – 12" slope. For slopes greater than this, longer studs will be required with non-shrink grout below the mounting plate, or a separate 3000psi (min) reinforced concrete surface will be required.

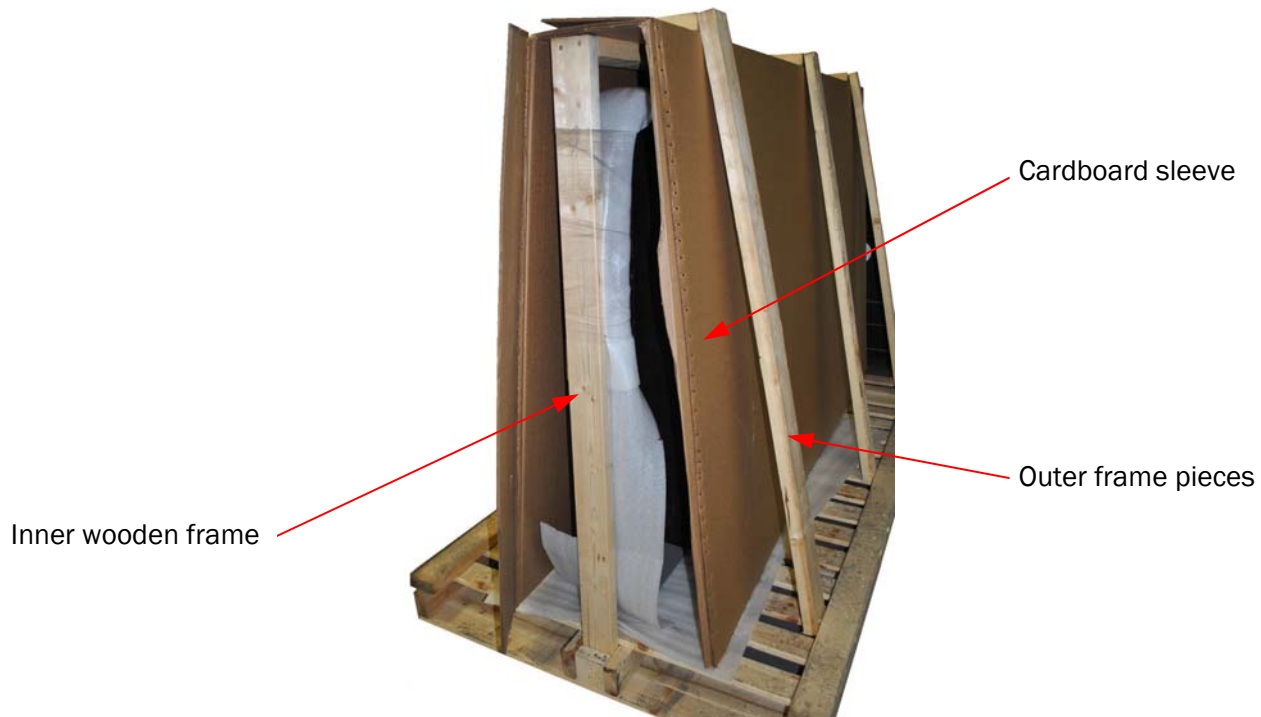
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## Step-2

Unpacking the Show™ and making preparations for installation.

1. Remove the outer frame pieces and the cardboard sleeve. The Show™ unit is shipped lying on its side. Leave the inner wooden frame attached at this time.



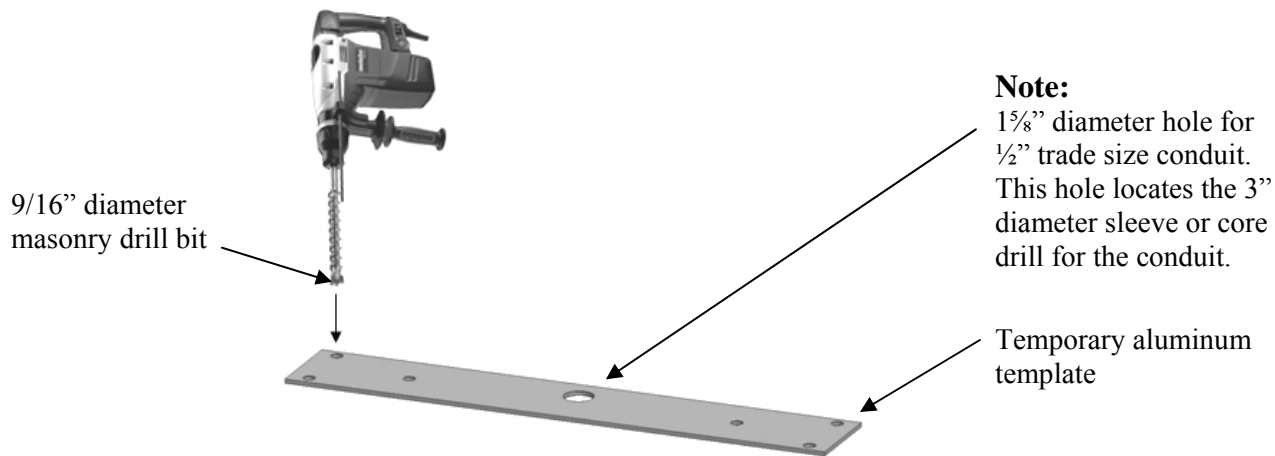
2. Locate the aluminum drill template and hardware pack that consists of (6) threaded anchor rods, (12) nuts and (6) washers.

# Instructions

## Step-3

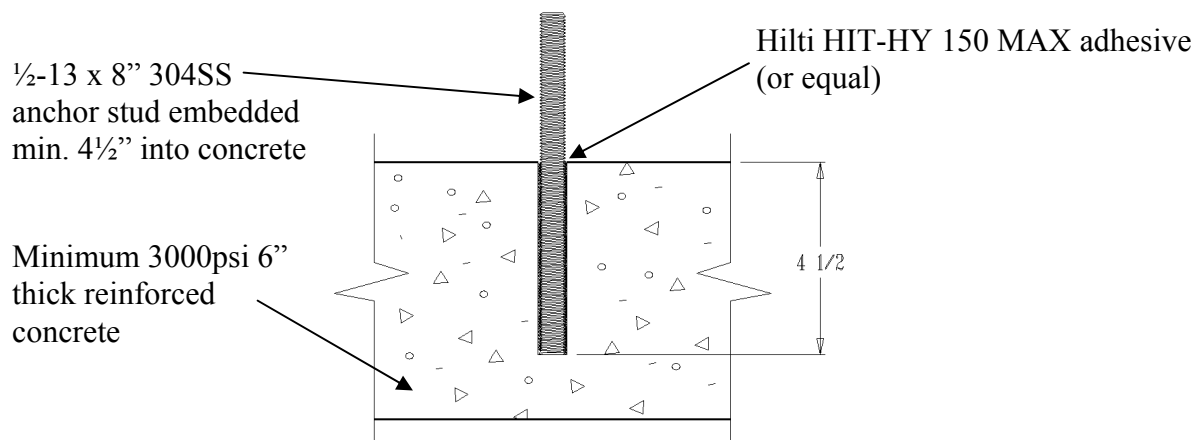
### Anchor Installation

1. With the aluminum template in position, either stand on the template or weigh it down and drill into the concrete for the 6 anchor holes 9/16" diameter x 4 1/2" deep. Make sure holes are plumb **Figures-2 & 3**. The template must not move while drilling.



**Figure-2**

2. Thoroughly clean the holes of all dust using compressed air and a 5/8" wire brush.
3. Install the six 1/2"-13 x 8" 304SS studs using Hilti HIT-HY 150 MAX adhesive system (or equal). Follow manufacturer's instructions.



**Figure-3**

**Note:** The anchor studs will be sticking up higher than what is needed. They will be cut shorter later.

# Instructions

## Step-4

Cutting Anchors to Length requires great care and attention to detail.

1. Accurately level the aluminum template in all directions at this time. Secure mounting plate with nuts on bottom and nuts with washers above and re-check for level.

**Note:** After the Show™ Ad Panel is set in place, fine minor adjustments of the 1/2-13 leveling nuts may be performed to ensure the Show™ is plumb and level.

**Note:** 1/2-13 anchor studs must be low enough not to interfere with the cover yet provide full thread engagement for the nuts.

2. Cut the 4 outside anchors (A) to 1 7/8" above template. Cut the 2 inside anchors (B) to 7/8" above template. Use a reciprocating saw with a blade suitable for cutting 304SS or an abrasive cut-off wheel. **Figures-4 & 4a**
3. **Caution:** The studs may have sharp burrs and edges after cutting. Use a 1/2-13 die and/or a file to restore the anchor threads if necessary and remove sharp burrs. Wear suitable hand, eye and ear protection.

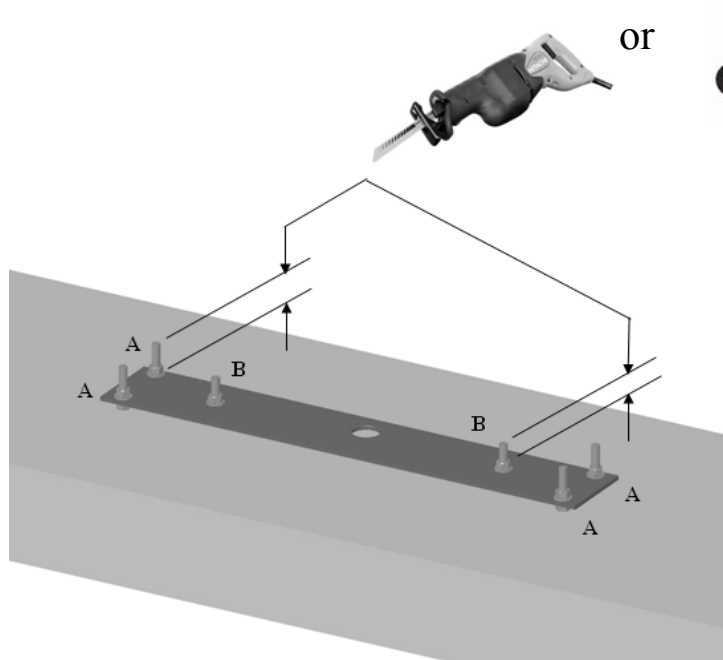


Figure-4

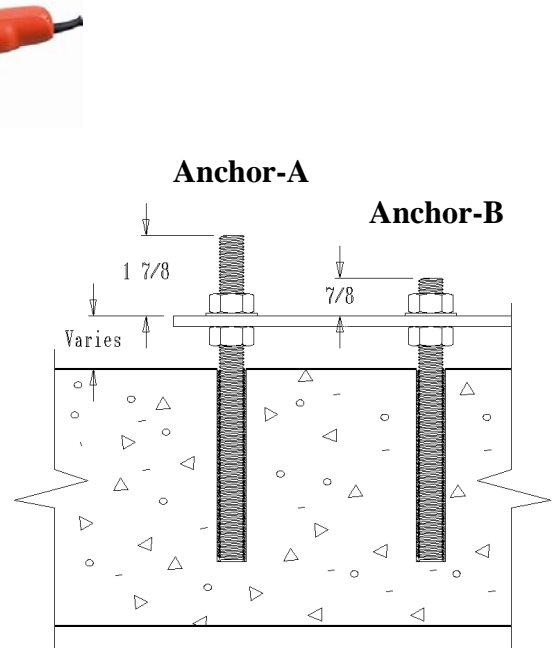


Figure-4a

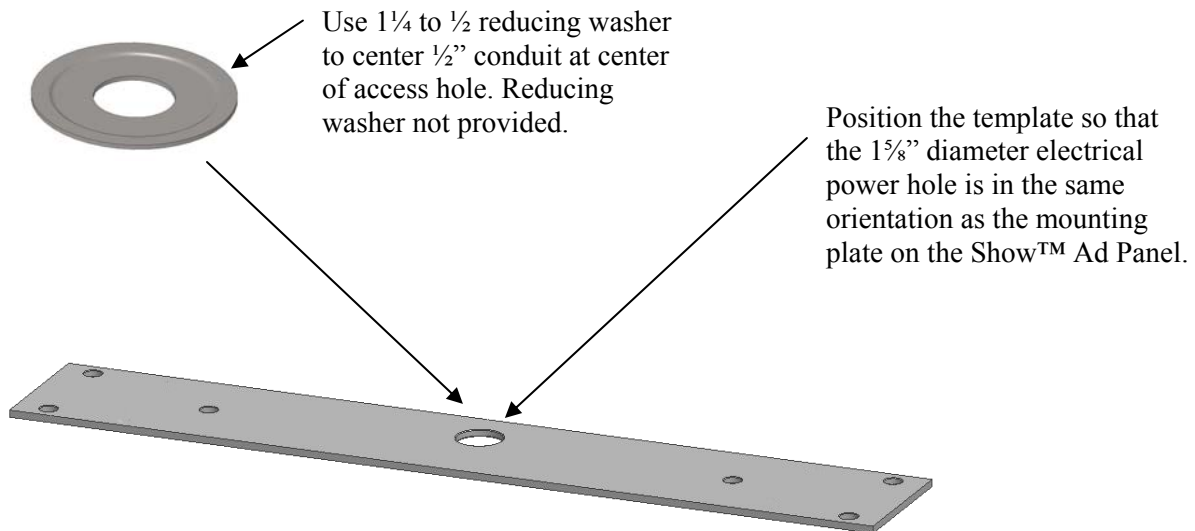
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## Step-5

**Electrical Conduit rough-in** must be installed in compliance with all national and local codes that apply. The following instructions and illustrations are representative of two possibilities of electrifying the Show™ Ad Panel.

The anchor drill template will be used for locating ½” trade-size conduit. **Figure - 5**



**Figure - 5**

1. The positioning of the ½” trade-size conduit for the Show™ Ad Panel requires precision.
2. For existing concrete, use up to a 3” diameter cored hole in concrete centered as close as possible to the access hole on the template and mounting plate. After anchors are installed and the conduit is in final position the cored hole is to be filled with concrete or grout to hold the conduit in position. **Figure - 7**
3. For new concrete, position up to a 3” diameter sleeve centered to the access hole on the template.

**Note:** For installations that require an LL conduit body, do not fill in the sleeved hole with concrete or grout until after all the conduit components are in position and completed. The cover extrusion is very sensitive to the position of the conduit body. **See Figures-8 & 10**

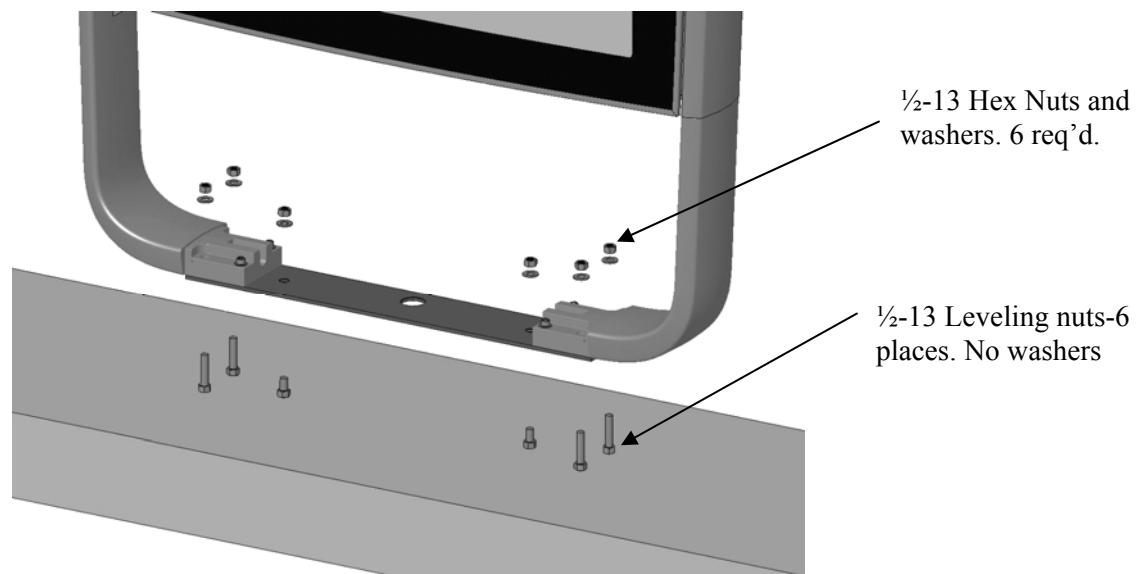
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## Step-6

Setting the Show™ Ad Panel in place onto the anchors.

1. Remove the temporary aluminum anchor drilling template. Be careful not to disturb the location of the leveling nuts.
2. Remove the wooden frame from the unit by removing the two 1/2-13 socket head cap screws with the 3/8" hex key. The unit is now loose, and will need to be held upright until ready to move.
3. Protect the powdercoat finish if mechanically lifting the unit. Lift and tip the unit into a vertical position. Carefully lower Show™ onto the anchors. **Figure - 6**
4. Install six 1/2-13 hex nuts and 1/2" washers. Tighten nuts securely.
5. Place level on side extrusions and on top of display panel and check for plumb and level. Minor adjustments may be required to the 1/2-13 Hex Nuts at this time. **Note:** 1/2-13 anchor studs must be low enough not to interfere with the cover yet provide full thread engagement for the nuts.



**Figure - 6**

**Note:** Electrical wiring and conduit are not shown for clarity

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## Step-7

Remove diffuser panels to allow access for wiring completion of the Show™ Ad Panel

1. Locate the keys and unlock the latches that are just under the lenses. Depress button and lift the lenses into the open position.
2. Remove packing and stabilization foam blocks from around the diffuser panels.
3. Grasping a diffuser panel on either side of the panel, gently lift panel off of the shelf at the bottom.
4. Maneuver the panel T-rods at the top end of the panel out of the side extrusions through the access slots and store the diffuser panels in a safe and protected area.



Diffuser panel in position



Lift diffuser off shelf



Position T-pin into access slot



Place diffuser panel into safe and protected area

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## Step-8

**Electrical Wiring**, depending on local codes, may be as simple as positioning the 1/2" trade-size conduit 1/2" above the mounting plate and hard-wiring the UF 12-2 cable directly into the Show™. The **SJTOW 12/3** wire whip that the Show™ comes with will be removed. **Figure - 9**

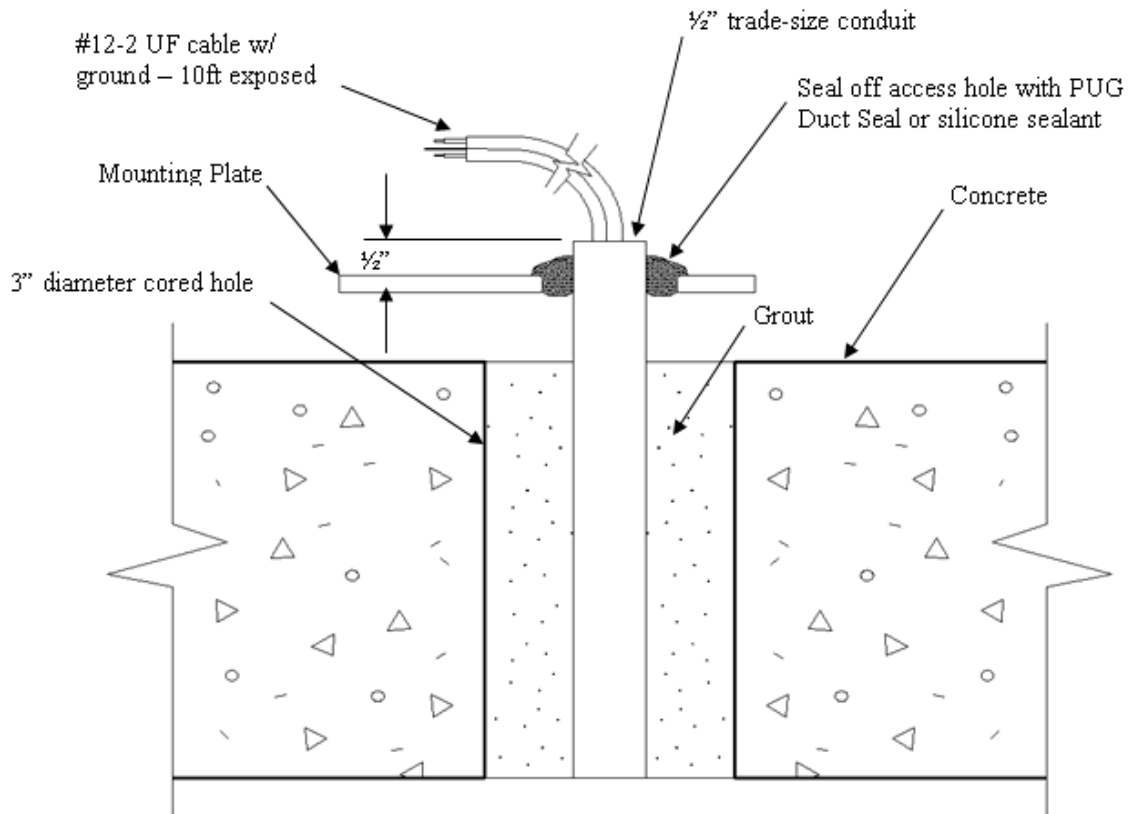


Figure - 7

# Instructions

## Step-8 (Continued)

In some locations more stringent code requirements may require the use of a UL Approved LL conduit body under the base cover in which case the OEM **SJTOW 12/3** wire whip is connected to the UF 12-2 cable inside a special conduit body. **Figure - 8. This is a newly patented product and is currently only available from Bark Industries.** <http://conduitbodies.com/> Ph 626-331-0995. **Note:** Pay special attention to the 1 7/8" Max height of the body.

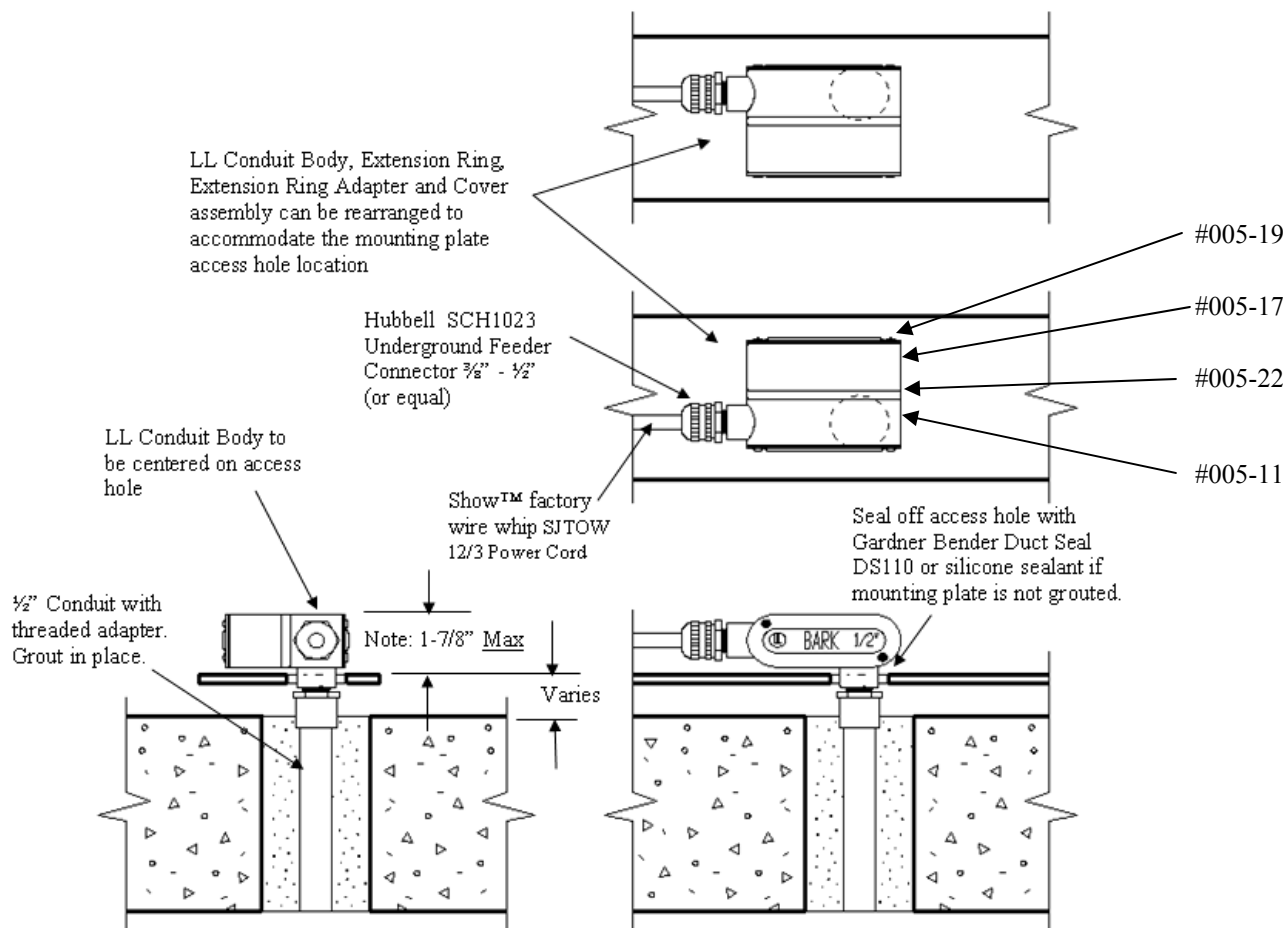


Figure - 8



#0500-11  
LL Body  
Req-1



#0500-22  
Coupler  
Req-1



#0500-17  
Extension  
Req-1



#0500-19  
Cover  
Req-2



#0500-25  
Front Gasket  
Req-2

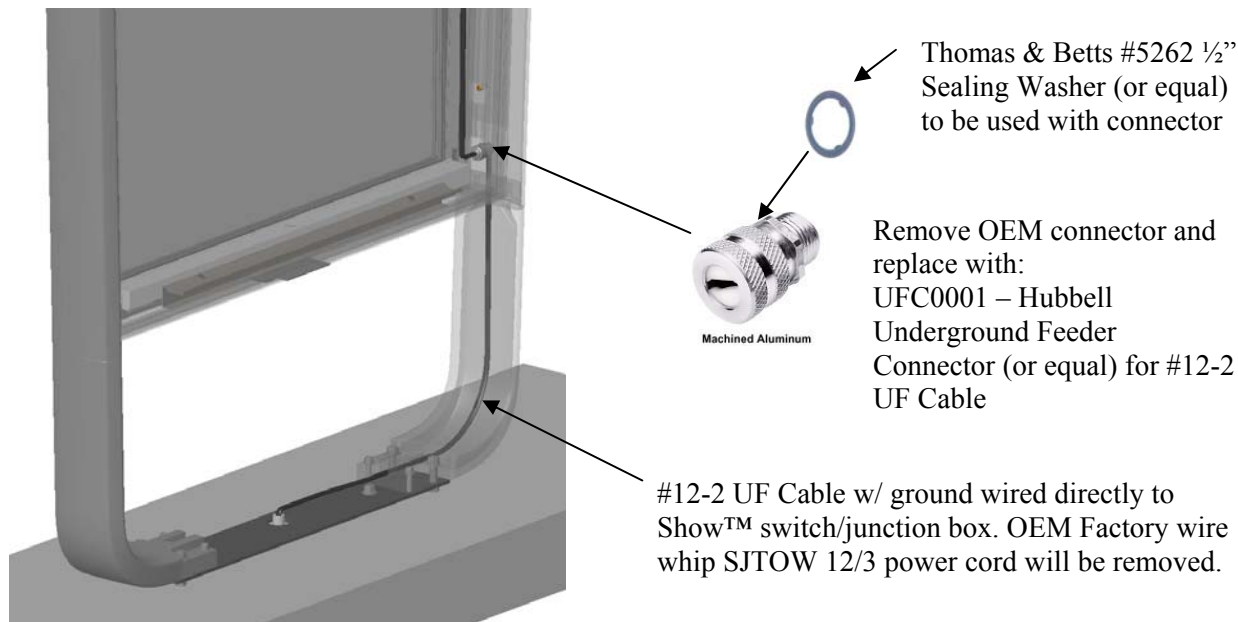


#0500-26  
Coupler Gasket  
Req-2

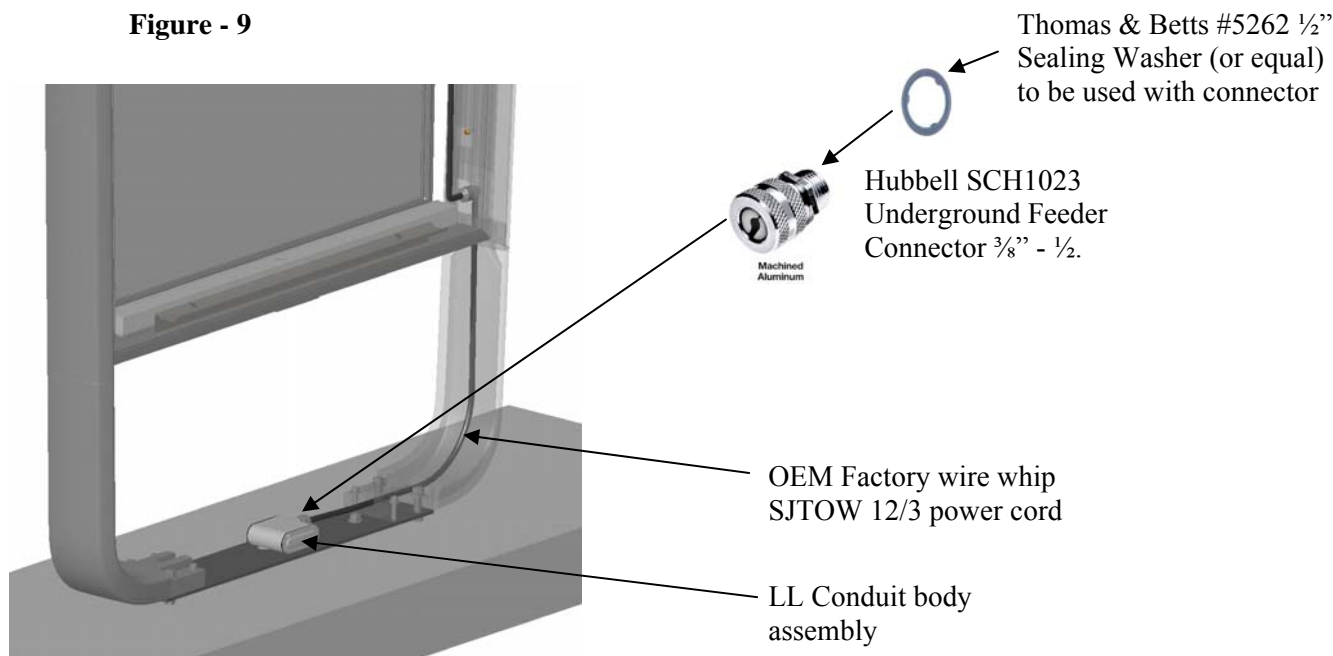
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## Step-8 (Continued)

The Show™ Ad Panel lightbox is a UL Approved leak-resistant unit. If the unit is hard-wired by pulling the UF 12-2 cable directly to the switch/junction box inside the unit, then the OEM Hubbell SCH1023 feeder connector must be replaced using a Hubbell UFC0001 Underground Feeder Connector (or equal) shown below in **Figure - 9**. For Installations requiring LL conduit body see **Figure - 10 & 8**.



**Figure - 9**



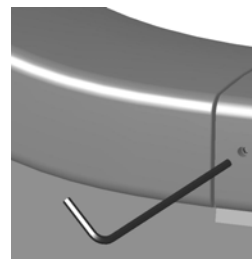
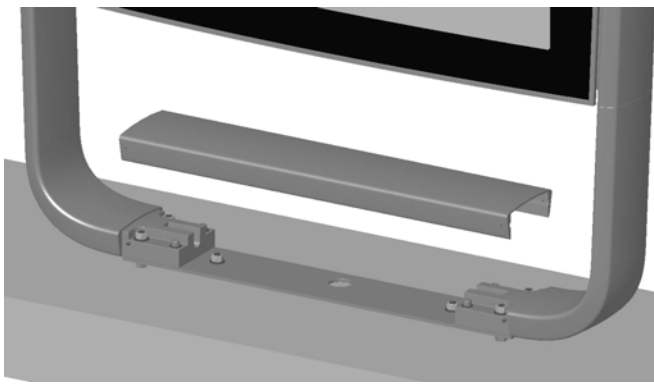
**Figure -10**

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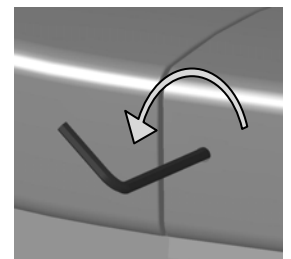
## Step-9

### Cover Assembly of the Show™ Ad Panel

1. The cover plate is shipped loose. The set screws that secure the cover plate to the unit are shipped installed in the unit. If the cover plate does not fit easily onto the unit, turn the set screws clockwise until the cover plate can be installed.
2. Gently lower cover in place. **Note:** LL Conduit body and anchors must be at correct height for proper fit of cover.



1/8" hex key wrench

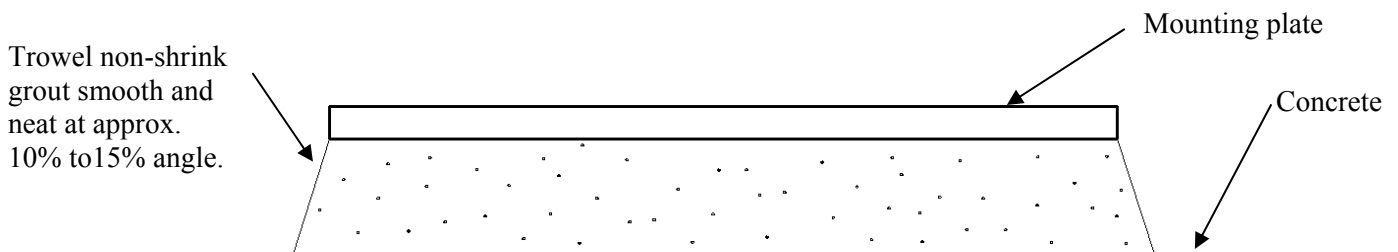


Turn set screw CCW till it bottoms into the channel in the cover

3. Insert 1/8" hex key wrench through hole in cover to engage socket set screw.
4. Back set screw out by turning CCW (counter-clock-wise) until set screw bottoms out in the groove channel inside of the cover.
5. Cover removal: Use a 1/8" hex key wrench to turn the four set screws CW (clockwise) far enough to allow the cover to be lifted off. Store cover in a safe and protected area.

## Step-10

**Grouting of mounting plate** is optional with the supplied 8" studs. With greater slopes that require longer studs, a non-shrink grout troweled smoothly around the edges of the mounting plate must be used (after the Show™ is in place and after final leveling).



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## Step-11

### Lamping

1. Show™ is designed to receive eight (8) T-8 48" long Bi-pin, 25 to 32 watt fluorescent lamps, 3000K to 5000K color temperature and 80 to 85 CRI range. Landscape Forms does not provide the T-8 lamps. Landscape Forms recommends 3700K color temperature T-8's.

## Step-12

### Final Assembly

1. Position diffuser panel T-pins into access slots and slide up into side extrusion, then set bottom of diffuser panel on shelf.



Position T-pins into access slots

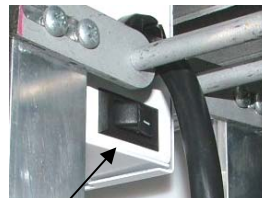
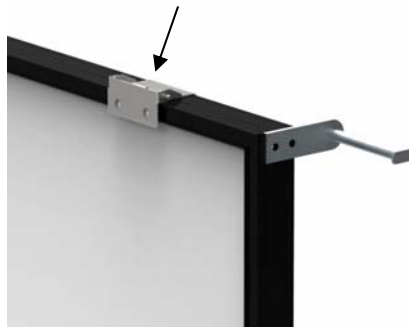


Slide T-pins up into extrusion slots



Lower diffuser panel onto shelf

2. Install graphics. Two spring clips on the top of the diffuser panel hold the graphic in place.



3. Turn unit on by pressing the on-off switch to the on position.
4. Close lens and lock both catches with the keys.
5. **Do not** remove protective lens covering till **AFTER** all installation and construction activities are completed. Use a soft cloth and a mild ammonia-free glass cleaner such as Hope's Perfect Glass cleaner (or equal).

This completes the installation of the Show™ Ad Panel