




BRASCO INTERNATIONAL, INC.

# INSTALLATION INSTRUCTIONS

Thank you for your order with Brasco International, Inc. Enclosed are setup instructions for your new SolStop™. Please review this page in full before proceeding with your installation.

**With questions, please contact us:**

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## TOOLS NEEDED FOR INSTALLTION

- Hammer Drill Motor
- Standard Hammer
- Wrench
- Cordless Drill
- 8" Long 1/2" Masonry Drill Bits
- Tamper Proof Hardware Tool (Included)

## IMPORTANT NOTICES:

- **Install the SolStop™ within 3 months of delivery. Sealed lead acid batteries will self-discharge in storage. It is strongly advised that installation occur as soon as possible to insure maximum battery life is achieved.**
- **Products stored outside must be fully tarped. Wooden crates, cardboard boxes and identifying labels are not weatherproof and will deteriorate in the elements.**
- **Be cautious when handling batteries as they are capable of generating hazardous short-circuit currents. Remove all jewelry (bracelets, metal watches, rings) before attempting to handle or disassemble batteries.**
- **Batteries should be stored indoors at a recommended 68 degrees Fahrenheit for max. shelf life.**
- **Batteries should be installed no later than 3 months of delivery or battery warranties will be void.**

## Assembly

Your SolStop™ comes mostly assembled and is pre-wired for easy installation. See attached assembly drawings and follow the below steps for removing the top tray from the light housing and making the necessary connections. The SolStop™ should operate the first night, however it may require a full day of peak sun and a week of “learning” to fully program the system for optimal performance.

### Be careful to protect the assembly when you are handling it.

1. Remove six (6) #10 x ¾” SS Pan Head Torx Tamper-resistant screws.
2. Gently remove the top assembly (solar panel tray) and lay it next to the light housing. Keep in mind that the two components are attached by wires. (Figure 1.)
3. You will find two (2) 10AMP fuses in a bag taped to the top assembly – remove the fuses from the bag. (Figure 1A.)
4. Install the fuse into the holder attached to the battery. (Figure 1A.)
5. Install the fuse into the holder attached to the solar panel. (Figure 1A.) Make sure they are pressed in tightly. WARNING: If exposed to sunlight, solar panel is an active power source.
6. Press the test button on the controller and then press the Pole-Mounted push button. (Figure 2.)
7. The SolStop™ light will activate and remain on for 5 minutes.
8. If there is sufficient daylight, the green light on the controller will light up, indicating the panel is providing a charge to the battery.
9. The SolStop™ should be anchored to a minimum 4” thick concrete pad and the base plate edges should be located a minimum of 6” from the edges of the concrete slab. (Figure 3.)
10. Reference Figure 4. for concrete anchoring guidelines and Figure 5. for concrete anchoring steps.

### Battery

Be cautious when handling the battery as it is capable of generating hazardous short-circuit current. Remove all jewelry (bracelets, metal watches, rings) before attempting to handle or disassemble the battery from the unit. Consult your local municipal laws for information on recycling the battery. Do not place used batteries in the garbage.

### Maintenance of your SolStop

Solar panels need to be clean and free from debris. Clean on an annual basis (or more often as needed) with water and a soft cloth or sponge using a mild non-abrasive soap and rinse well.



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Figure 1.

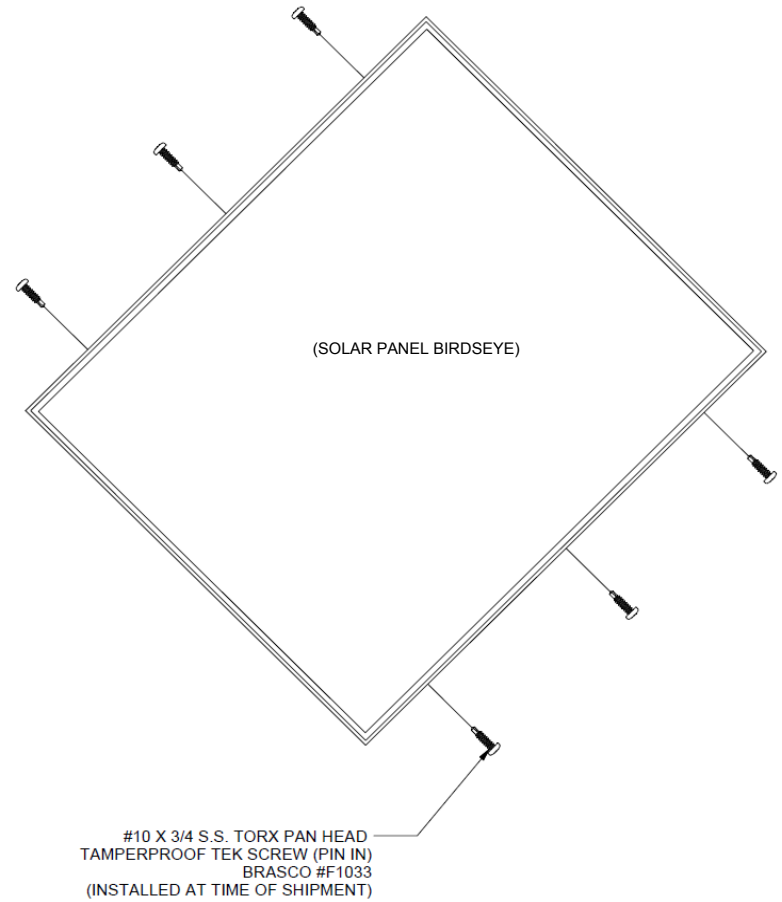
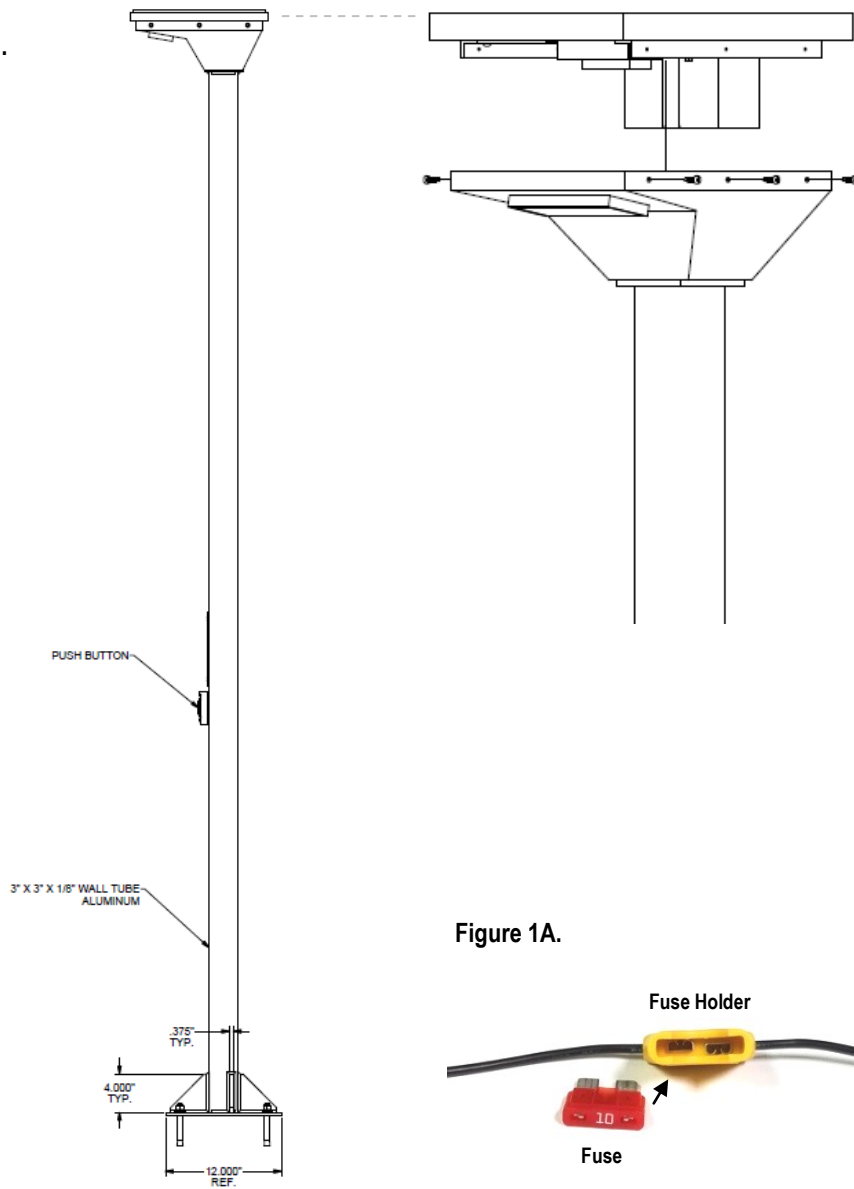


Figure 1A.

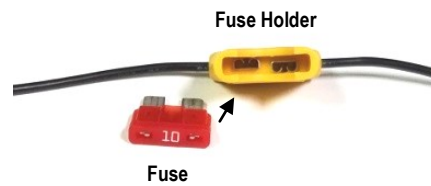


Figure 2.

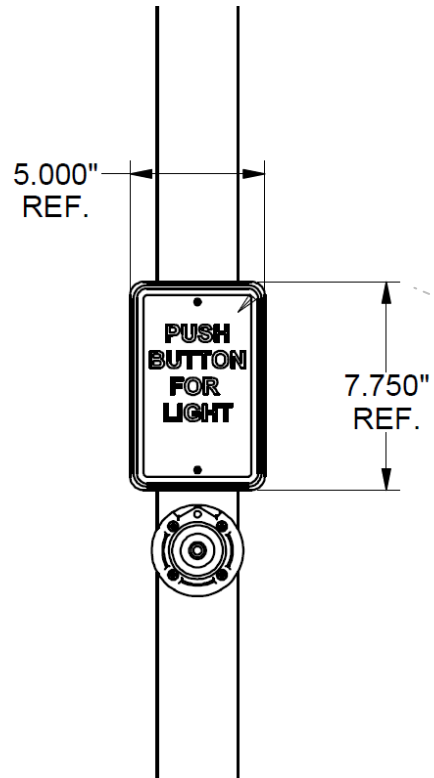
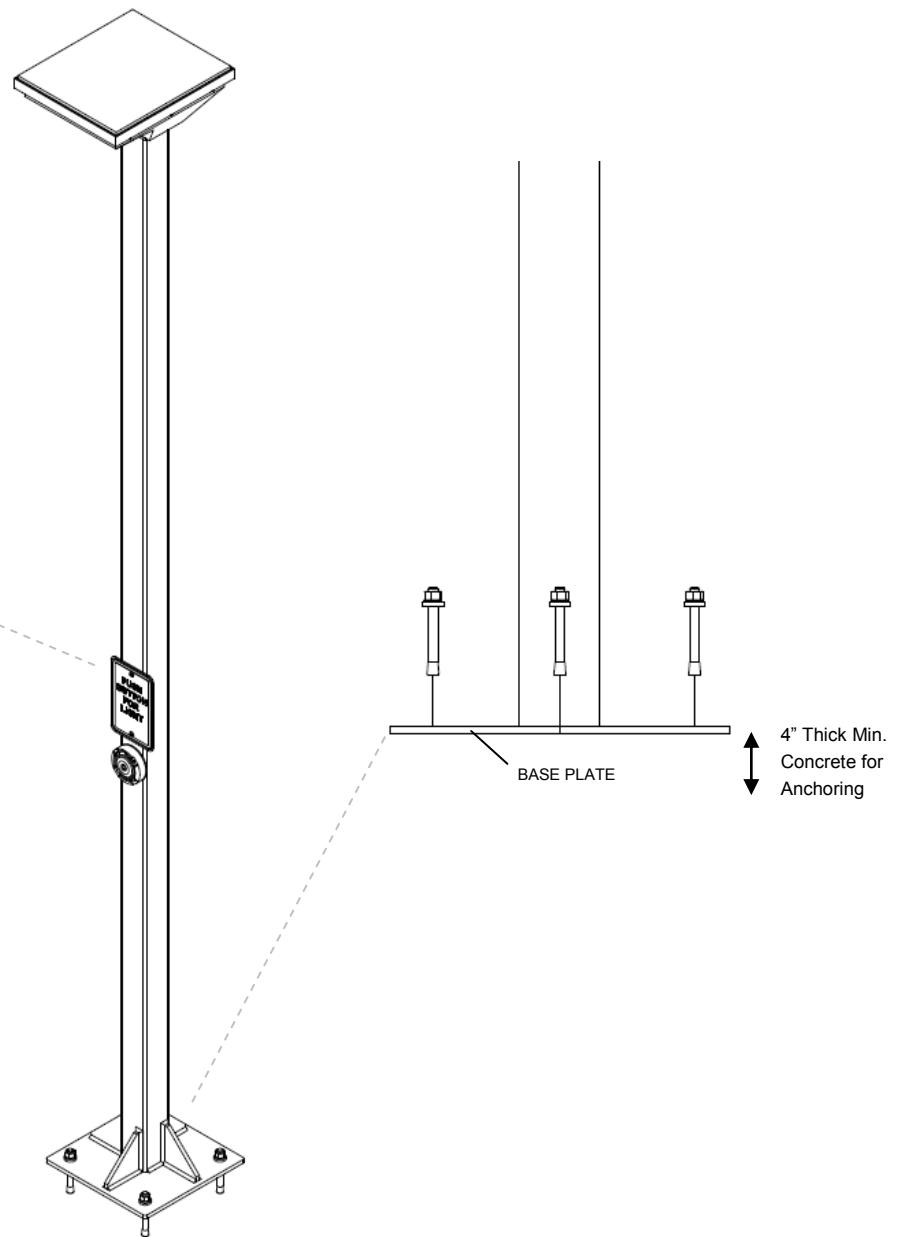


Figure 3.



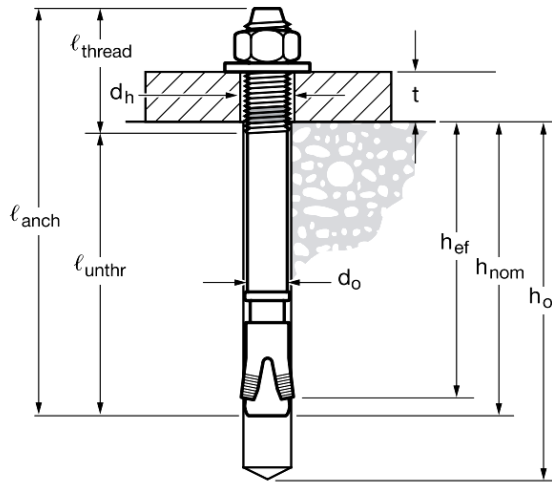
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**Figure 4.** Guidelines for Anchoring Expansion Anchors into Concrete

**Expansion Anchor Installed**

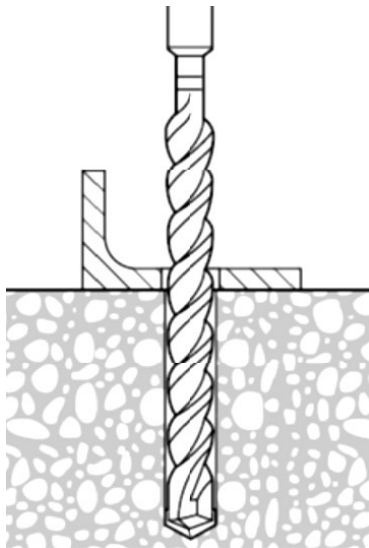


**Expansion Anchor Technical Reference Chart**

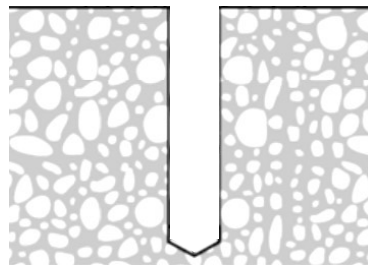
Setting information	Symbol	Units	Nominal anchor diameter $d_o$													
			3/8			1/2			5/8			3/4				
Nominal bit diameter	$d_{bit}$	in.	3/8			1/2			5/8			3/4				
Minimum nominal embedment	$h_{nom}$	in. (mm)	2-5/16 (59)	2-3/8 (60)	3-5/8 (91)	3-9/16 (91)	4-7/16 (113)	4-5/16 (110)	5-9/16 (142)							
Effective minimum embedment	$h_{ef}$	in. (mm)	2 (51)	2 (51)	3-1/4 (83)	3-1/8 (79)	4 (102)	3-3/4 (95)	4-3/4 (121)	4-5/8 (117)	5-3/4 (146)					
Min. hole depth	$h_o$	in. (mm)	2-5/8 (67)	2-5/8 (67)	4 (102)	3-3/4 (95)	4-3/4 (121)	4-5/8 (117)	5-3/4 (146)							
Min. thickness of fixture <sup>1</sup>	$t_{min}$	in. (mm)	1/8 (3)	1/8 (3)	n/a	1/8 (3)	n/a	1/8 (3)	n/a	1/8 (3)	n/a					
Max. thickness of fixture	$t_{max}$	in. (mm)	2-1/4 (57)	4 (101)	2-3/4 (70)	5-5/8 (143)	4-3/4 (121)	4-5/8 (117)	3-5/8 (92)							
Installation torque	$T_{inst}$	ft-lb (Nm)	25 (34)	40 (54)	60 (81)	110 (149)										
Fixture hole diameter	$d_h$	in. (mm)	7/16 (11.1)	9/16 (14.3)	11/16 (17.5)	13/16 (20.6)										
Available anchor lengths	$l_{anch}$	in. (mm)	3 (76)	3-3/4 (95)	5 (127)	3-3/4 (95)	4-1/2 (114)	5-1/2 (140)	7 (178)	4-3/4 (121)	6 (152)	8-1/2 (216)	10 (254)	5-1/2 (140)	8 (203)	10 (254)
Threaded length including dog point	$l_{thread}$	in. (mm)	7/8 (22)	1-5/8 (41)	2-7/8 (73)	1-5/8 (41)	2-3/8 (60)	3-3/8 (86)	4-7/8 (178)	1-1/2 (38)	2-3/4 (70)	5-1/4 (133)	6-3/4 (171)	1-1/2 (38)	4 (102)	6 (152)
Unthreaded length	$l_{unthr}$	in. (mm)	2-1/8 (54)	2-1/8 (54)	3-1/4 (83)	4 (102)										

<sup>1</sup> Minimum thickness of fixture is a concern only when the anchor is installed at the minimum nominal embedment. When KWIK Bolt TZ anchors are installed at this embedment, the anchor threading ends near the surface of the concrete. If the fixture is sufficiently thin, it could be possible to run the nut to the bottom of the threading during application of the installation torque. If fixtures are thin, it is recommended that embedment be increased accordingly.

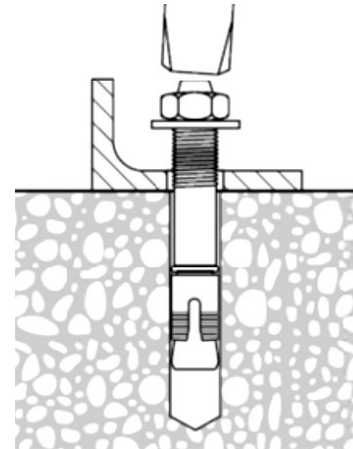


**Figure 5.** Steps for Anchoring Expansion Anchors into Concrete**Step 1. Drill Hole**

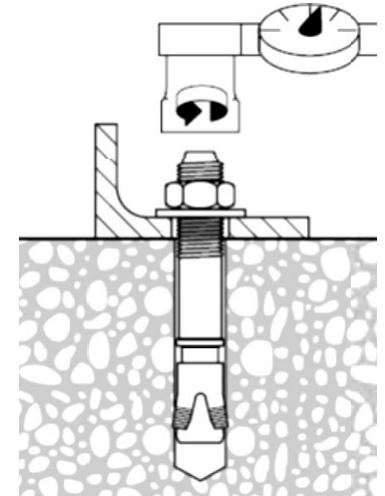
Hammer drill a hole to the same normal diameter as the Kwik Bolt TZ. The hole depth must exceed the anchor may be used as a drilling template proper anchor location.

**Step 2. Clean Hole**

Remove all debris and dirt from hole.

**Step 3. Drive in Anchor**

Drive the Kwik Bolt TZ into the hole using a hammer. The anchor must be driven until at least 4 threads are below the surface of the fixture.

**Step 4. Tighten Nut**

Tighten the nut to the recommended installation torque.



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