

Installation Instructions

Flush Deck Aluminum Lid Kit

IMPORTANT: The parts shown in this kit are for the 14 inch flush lid kit. Kits for a 12 1/2 inch and 15 1/2 inch kits are also available. The *QuickAttach* system that is also shown in these instructions are also based on using a 14 inch flush lid kit. When installing the *QuickAttach* system in the other sizes of flush lid kits, the pulley brackets width will need to be adjusted to fit the width of that flush lid kit.



COVERSTAR™

Ver. 2.1, May, 2011

Part Number



Aluminum Lid Kit Applications

The Coverstar flush deck lid kit can be used for either underguide or recessed topguide pool cover systems with curved cover guides. This system can also be installed in housings made of concrete or other durable materials as long as they are the required dimensions. See *assembly instructions on reverse side*.

For an integrated solution, use the Coverstar polymer housing kit (part # A2400, below), which is engineered specifically for the flush deck lid system.



Tools Required

10" Chop Saw w/ carbide blade, cordless drill, Optional for drill-into concrete: Hammer Drill with 1/4" masonry bit.

Flush Deck Aluminum Lid Kit Parts

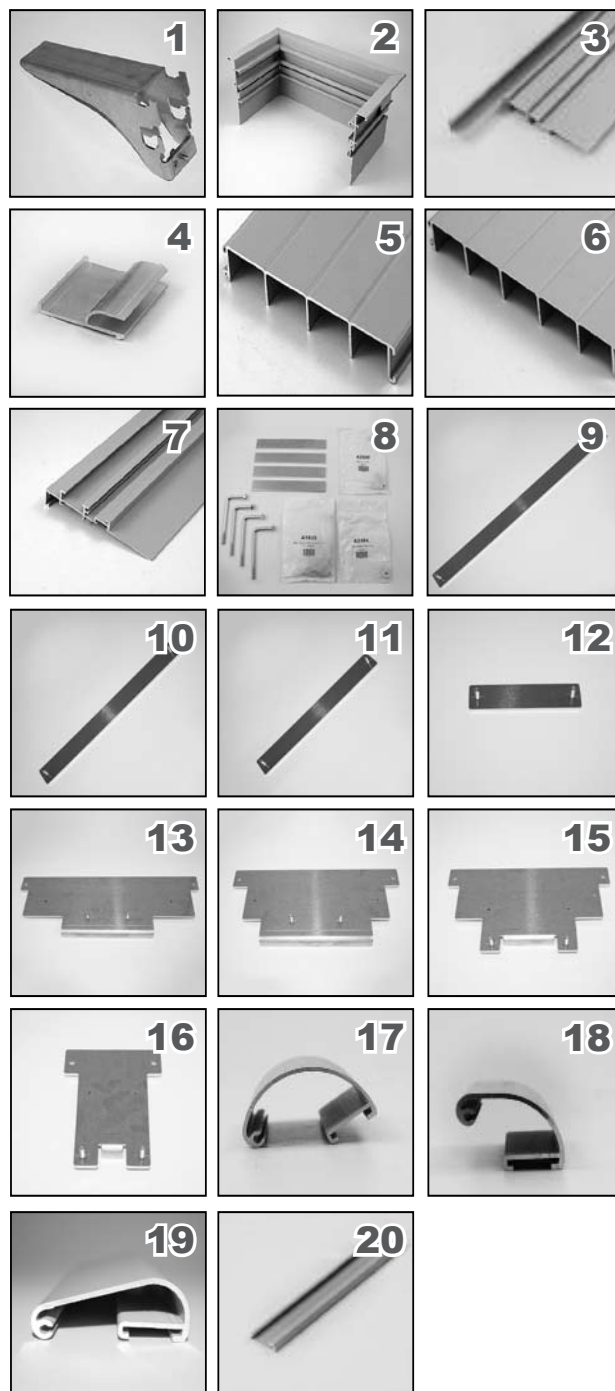
Kit **A2420** (for pools up to 20' wide) includes all the parts necessary to install the lid system for all Coverstar systems. Call your distributor for information on larger pool sizes.

Qty	Part #	Description	Length
1.	4	A2409 Lid bracket with bolt for 309 riser panel (X0944) each SS for 14in box	
2.	2	A2410 Riser Box End Assembly 309 for 14in box	
3.	1	M9354 Riser panel 309 cut to fit coping transition profiles 40in long notch on both ends	
4.	10	M9356 Riser panel 309 fixed height hook 2in long	
5.	1	X0048 Lid Panel Flush (1 in x 6 in)	24'
6.	1	X0669 Lid Panel Flush (1 in x 7.5 in)	24'
7.	1	M0944 Flush Lid Riser 309	
A2414 Flush lid 309 Hardware Kit			
8.	A2414	Flush Lid 309 Hardware Kit (All of the parts for this hardware kit will be shown in picture number 8 instead of separate pictures)	
1	A1920	30 pk - Screw HHW tek #10 x 1 in zinc (H9614)	
1	A2117	4 pk, Hex head Bolt 1/4 - 20 x 5 with 90 degree bend (M9122)	
1	A2484	4 pk. Washer flat 1/4 in SS (H0002)	
1	A2500	8 pk. 1/4 - 2- Nut (H0277)	
4	M9351	Splice for riser panel 309	
QuickAttach Mechanism Mounting Kit			
9.	1	M9467 <i>QuickAttach</i> anchor plate for ME pulley side	
10.	1	M9468 <i>QuickAttach</i> anchor plate for ME water side	
11.	1	M9469 <i>QuickAttach</i> anchor plate for NME pulley side	
12.	1	M9470 <i>QuickAttach</i> anchor plate for NME water side	
13.	1	M9463 <i>QuickAttach</i> mechanism mounting plate - ME pulley side	
14.	1	M9464 <i>QuickAttach</i> mechanism mounting plate - ME water side	
15.	1	M9465 <i>QuickAttach</i> mechanism mounting plate - NME pulley side	

16. 1 M9466 *QuickAttach* mechanism mounting plate - NME water side

Optional Lid Decender Kits

17. A1111 Descender Kit BULL NOSE for flush lid panels up to 22 ft
 18. A1110 Descender Kit ROUNDED for flush lid panels up to 22 ft
 19. A1112 Descender Kit INCLINED for flush lid panels up to 22 ft
 20. A1752 Descender Kit NO PROFILE (Metal C-Cap) for flush lid panels up to 20 ft guide space

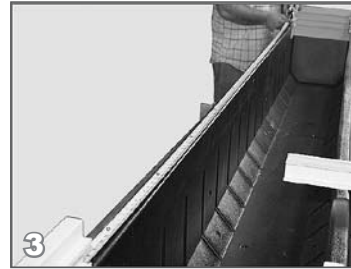




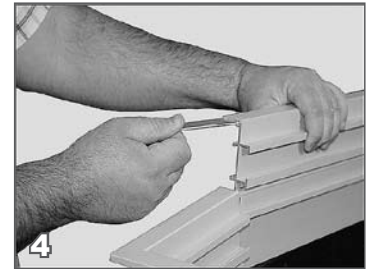
1
Check the inside width of the cover housing. Make sure it matches the width of the flush lid kit that was ordered.



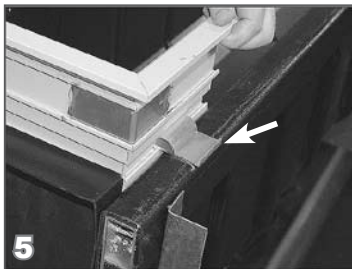
2
Place the preassembled boxed riser ends (A2410) at each end of the housing.



3
Measure across the back of the housing between the boxed ends. Cut a length of the riser (X0944) to fit in this opening.



4
Insert splices (M9351) in the splice channel of the riser so they will extend part way into the splice channel of the of the riser and box end.



5
Insert the fixed height hooks (M9356) into the channel on the outside of the riser. These hooks will rest on the housing and set the height of the riser 4 inches above the housing.



6
Using the piece of riser that is 40 inches long and notched at each end (M9354), cut the riser to fit on the front side of the housing for the motor and non motor ends. The cover guide will pass through the notches in the riser.



7
If using a Coverstar Encapsulation with coping, install the transition pieces that will fit between the riser panel and the encapsulation/coping.



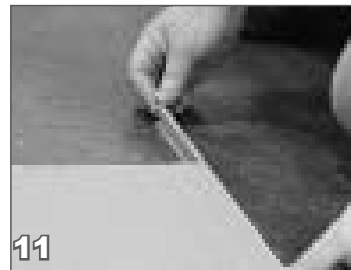
8
Secure the riser to the housing by screwing 1 inch self tapping screws (H9614) through the riser and into the housing. Make sure the top of the riser is flush with what will be the finished deck height.



9
Install the lid brackets into the riser along the back of the housing. Place a level on the brackets and level them by adjusting the bolt at the bottom of the bracket.



10
Measure from the inside of one riser boxed end to the other in order to determine the total lid length. Cut the lid panels to this length.



11
If a lid descender is being used, cut the descender to fit across the front of the lid between the coping. Also, cut the flat no profile descender to fit on the motor and non motor ends of the lid. If a profile descender is not being used, use the flat no profile descender (A1752) across the entire lid.



12
Slide the two sections of lid together. Slide the descenders on the front side of the lid. Position the lid in so it rests on the lip of the riser and on the lid brackets. Make sure the lid is in place when the concrete is poured. The lid can be masked off or turned upside down to keep it clean during the concrete pour.



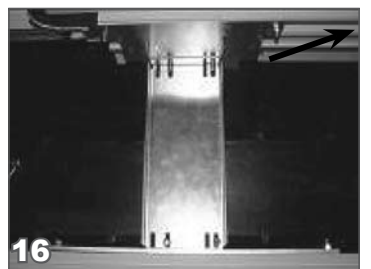
13
The QuickAttach Mechanism Mounting Kit includes (4) anchor plates and (4) mechanism mounting plates. These plates are labeled according to the location in the cover housing where they will be mounted:
Motor End Water Side
Motor End Pulley Side
Non Motor End Water Side
Non Motor End Pulley Side



14
Position the anchor plate into the top channel of the riser by inserting it at an angle so the top of the anchor plate goes into the channel first, and then move the bottom of the plate into the channel. Repeat this process for the other anchor plates.



15
Insert the QuickAttach mounting plate over the appropriate anchor plate.



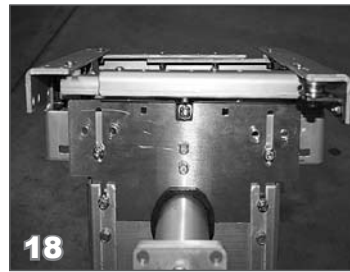
16
Install the cross braces over the pem studs in the QuickAttach brackets at both the motor and non motor ends of the housing. These cross braces will maintain the correct width between the QuickAttach mechanism mounting plates during the concrete pour. Secure using 1/4 - 20 nylock nuts. These cross braces will be removed when the mechanism is installed.



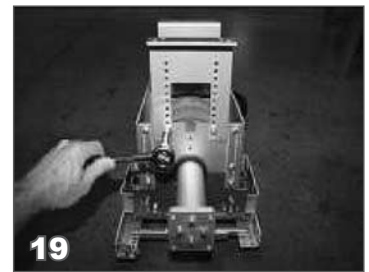
Install ¼ - 20 nylock nuts onto the (2) pem studs in the anchor plates. Do not tighten these nylock nuts down at this time so the mounting brackets can slide side to side to position the mechanism in the correct location.

Repeat this process for each of the *QuickAttach* mechanism mounting plates

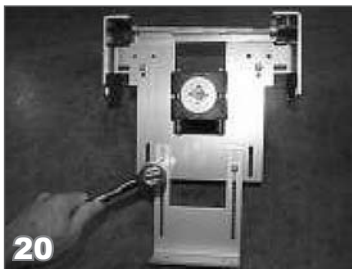
NOTE: The *QuickAttach* mechanism mounting kit includes (8) ½ inch bolts that will be used when the mechanism is mounted in the housing. If the mechanism is being mounted at a later date, save these bolts and use them to secure the mechanism to the mounting plates.



Both, the Eclipse and Aluminum mechanisms are being shipped with the pulley brackets on both the motor end and non motor ends already set at the correct width and height for the *QuickAttach* system.



Turn the motor end of the mechanism upside down to install the mounting feet. For the Eclipse mechanism, use the top hole in the mounting feet. For the aluminum system, use the second hole from the top on the mounting feet.



Install the mounting feet on the non motor end of the mechanism. For the Eclipse mechanism, use the top hole to mount the feet. For the aluminum system, use the fifth hole down from the top.

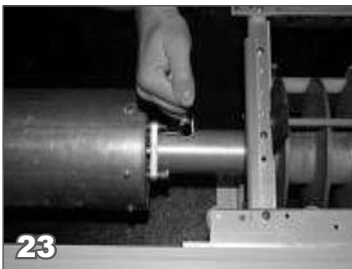
NOTE: It is important to use the mounting feet so the mechanism is securely mounted in the cover housing.



Drop the motor end of the mechanism into place by aligning the slots that are in the bottom of the pulley brackets with the pem studs in the mounting plates and sliding it into place.



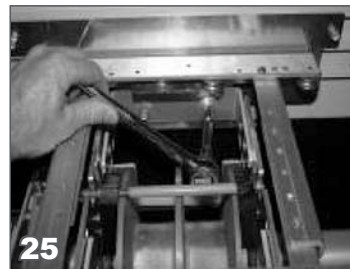
Install the non motor end of the mechanism so the slots in the pulley brackets slide over the pem studs in the mechanism mounting plates.



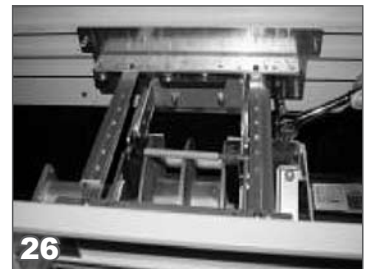
Attach the roll up tube to the motor and non motor ends of the mechanism using the hardware provided.



To position the mechanism in the correct location, use a length of rope to make sure it will travel straight from the cover guide to the pulleys on the mechanism. It is very important that the roll up tube be centered between the cover guides.



Tighten the nylock nuts to secure the mounting plates to the riser and the mechanism pulley brackets to the mounting plates.



The mechanism mounting plates have threaded holes in them that line up with the mounting holes in the pulley brackets. Insert ¼ - 20 x ¾ inch bolts into these holes and secure the motor end of the mechanism to the mounting plates.



Secure the non motor end of the mechanism to the mounting plates using the ¼ - 20 x ¾ inch bolts.



For the aluminum system, use a 3/16 drill bit to drill through the holes in the cross braces. For the aluminum and Eclipse system, use 1 inch screws and nylock nuts provided to secure the cross braces together. Repeat this process on the non motor end of the mechanism..