Torque Lock Staple Installation Instructions

TL-3/TL-6/TL-12/TL-18

WIPE OFF ANY EXCESS OIL ON STAPLE DUE TO PACKAGING

STEP 1

- Cut a 12″ area around the crack(s) using a masonry saw when using the 3″ and 6″ staples.
- For 12″ and 18″ staples, cut out a window using the template provided. Cut at least 3″ on either side of the template to cut wide.
- Using a small hammer drill, carefully chip the plaster inside the wide-cut area.

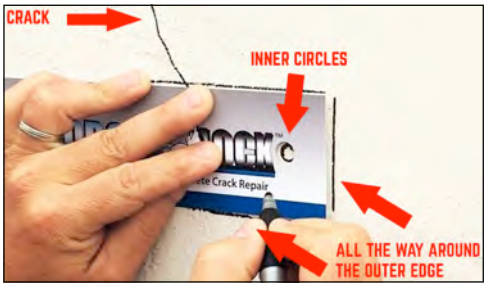
Note: If the pool is already de-plastered, skip this step.

STEP 2

- Using the provided templates, trace and mark cutouts along the crack, spacing them approximately 12 inches apart.
- Alternate between 6″ and 3″ templates as you move along the crack.

Note: There is no need to alternate staple sizes when using 12″ or 18″ staples.

- Mark the drill holes on each side of the crack using the circular guides on the templates.



STEP 3

- Use a ½″ **masonry bit** at each drill mark to drill into the structure at least 4″ deep.

Note: Drilling deeper will not affect performance.

STEP 4

- Use a **masonry saw** with a **4½″ diamond blade** to cut along the marked cutout lines to a depth of approximately 2″.
- Carefully chip out the area within the cut to create a recess for the staple.

STEP 5

- Clean all cutouts and cracks thoroughly, removing dust and debris.

STEP 6

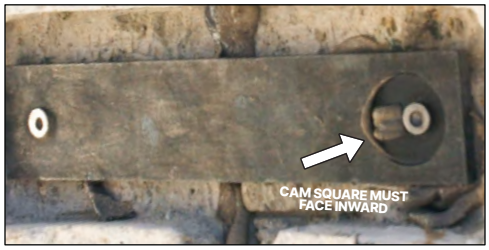
- Assemble the Torque Lock unit.
- Apply the provided epoxy into the pre-drilled holes.
- Insert the staple pins into the holes.
- Push the staple back until the locking plate is secured.

Tip: You may need to gently tap the staple into place using a hammer or mallet.

⚠ IMPORTANT: Avoid getting epoxy on the cam or locking plate.

STEP 7

- Ensure the ratchet square faces inward when positioning the staple, as shown in the diagram.



STEP 8

- Insert the torque wrench into the ratchet square using a **⅜″ ratchet attachment**.
- Turn clockwise to tighten.

TORQUE SPECIFICATIONS:

- 3″/6″/12″/18″ staples: 22 ft-lbs

⚠ If a second crack is within 5 feet, set torque to 12 ft-lbs.

⚠ DO NOT exceed the recommended torque OR turn more than 180 degrees, whichever comes first.

STEP 9

- Create a shallow "V-Cut" along the structural crack using a **diamond or carbide blade**.
- Clean out the cracks of dust and debris.
- Use non-shrinking hydraulic cement to fill the cracks and cutouts.
- Trowel the cement tightly into place, ensuring no air pockets or voids are left.
- Once the repair is complete, you can apply your desired finish: plaster, paint, tile, marcite, cool deck, etc.

Torque Lock Staple Installation Instructions

TLR-45/TLR-90

WIPE OFF ANY EXCESS OIL ON STAPLE DUE TO PACKAGING

STEP 1

- Using the provided template, trace around the outside of the template and mark cutouts along the crack approximately every 12 inches.

Note: It may help to pre-fold the staple at the centerline, as marked on the template.

STEP 2

- Cut about an 18″ area around the crack(s) using a masonry saw, wide enough to fit the staple with extra space on the side.
- Using a **small hammer drill**, carefully chip the plaster inside the wide-cut area.

Note: If the pool is already de-plastered, skip this step.

STEP 3

- Using the provided templates, trace the perimeter of where the staples will be set.
- Repeat tracing the template every 12 inches along the crack.
- Using a **masonry saw** with a **4½″ diamond blade**, make a plunge cut into the structure along the marked lines, approximately 2 inches deep.
- Use a **small hammer drill** to chip out ~2″ of plaster.

STEP 4

- Center and hold the corner/radius staple in the cutout area.
- Use a pencil or crayon to trace and mark drill locations through the small holes of the staple.

STEP 5

- At the furthest left anchor bolt hole, drill 4 inches deep using a ½″**masonry bit**.

Note: Drilling deeper will not affect performance.

- Clean the drilled hole.
- Tap the first anchor bolt into the hole.
- Place the staple over the bolt and secure it with a washer and hex nut using a ratchet. The staple should now be partially secured.

STEP 6

- Drill through the two remaining small holes on the right side of the staple.

⚠ DO NOT drill the large CAM hole yet!

- Clean the drilled holes.
- Insert two additional anchor bolts, and secure them with washers and hex nuts using a ratchet. The staple should now be fully secured and flush with the gunite structure.

STEP 7

- Mark the location of the "ratchet hole" by placing the CAM bolt in the large hole. The ratchet hole should be facing toward the center of the staple.
- Drill at the marked location and clean the hole.
- Insert the CAM into the hole and adjust until it's fully seated in the staple.

Note: If the CAM does not align properly, use a larger drill bit to enlarge the hole slightly.

- Use the supplied epoxy to secure the post into the hole.

STEP 8

- Set your torque wrench to 22 ft-lbs.
- Using a ⅜″ **ratchet attachment**, tighten the CAM until the torque setting is reached.

⚠ IMPORTANT: If a second structural crack exists within 5 feet, torque staples to 12 ft-lbs instead.

STEP 9

- Create a shallow "V-Cut" along the structural crack using a **diamond or carbide blade**.
- Clean out the crack of dust and debris.
- Use non-shrinking hydraulic cement to fill the cracks and cutouts.
- Trowel the cement tightly into place, ensuring no air pockets or voids are left.
- Once the repair is complete, you can apply your desired finish: plaster, paint, tile, marcite, cool deck, etc.